



Together we make the  
**automation of roller shutter and  
sun protection systems easier.**

Main catalogue for drives, control units and accessories  
**from Becker.**



**BECKER**  
Together it's easier.



**Our greatest strength:  
finding ways to make your  
job that much easier.**





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DRIVES

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# New items in this catalogue



## Sun protection drives for emergency manual operation with electronic limit switching

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56



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Glossary – drives

Current drive name	Previous drive name	Equates old drive name	Description
Mechanical limit switching			
M04	C M	M	Roller shutter and sun protection drive with mechanical limit switching
M05	HK	HK	Roller shutter and sun protection drive with crank connection
M06	G	G	DC drive 12 – 24 V, diameter 58 mm
M07	GHK	GHK	DC drive with crank connection
M17			Roller shutter drives for narrow windows
M19			DC drive 12 V, diameter 35 mm Pico
Electronic limit switching			
E01	C PRO+	C PR+, PR+, Pico R+	Universal roller shutter drive with electronic limit switching
E02	RO+		Roller shutter drive with electronic limit switching
E03	ROP+	RP, RP+, R, R+	Roller shutter drive with electronic limit switching
EVO20 R			Roller shutter drive with electronic limit switching in the Evolutions series
EVO20 RJ			Roller shutter drive with electronic limit switching in the Evolutions series for roller shutters with blind function
E12	C PS, C PS+, SE B0	PS, PS+, S, S+	Universal sun protection drive with electronic limit switching
E14			Roller shutter drives with electronic limit switching
E15			Sun protection drives with electronic limit switching
E16	C SE I1		“Locking” sun protection drive with electronic limit switching
E18			Sun protection drive “ZIP” with electronic limit switching
E22			Roller shutter drive with electronic limit switching
E25			Roller shutter drive with electronic limit switching and crank connection
Radio controlled drives with electronic limit switching – Centronic			
C01	C PROF+	PROF+, PRF+	Roller shutter drive with integrated radio receiver Centronic
C12	C PSF+, C PSF	PSF+, PSF	Sun protection drive with integrated radio receiver Centronic
C16	C SEF I1		“Locking” sun protection drive with integrated Centronic radio receiver
C18			Sun protection drive “ZIP/Fixed Screens” with integrated radio receiver Centronic
Bidirectional radio-controlled drives with electronic limit switching – CentronicPlus			
C01 PLUS			Roller shutter drive with integrated bidirectional radio receiver CentronicPlus
C12 PLUS			Universal sun protection drive with integrated bidirectional radio receiver CentronicPlus
C18 PLUS			Sun protection drive “ZIP/Fixed Screens” with integrated bidirectional radio receiver CentronicPlus
Radio controlled drives with electronic limit switching - EnOcean			
N01			Roller shutter drive with integrated radio receiver EnOcean
Drives with SMI technology			
S01	C PR+ SMI		Roller shutter drive with SMI limit switching
S12	C PS SMI, C PS+ SMI		Sun protection drive with SMI limit switching
S18			Sun protection drive “ZIP/Fixed Screens” with SMI limit switching

Example:  
.....

P

5

-

16

-

E

03

Diameter

Torque

Speed

Limit switching

Functional range

Together it’s easier.  
That’s the philosophy  
behind our ideas and what we do.



Frank Haubach  
Head of Sales / Marketing

Dear Customer,

We are both operating in an exciting market. While automated drives and control units for roller shutters and sun protection systems were previously seen as luxuries, Smart Home is now here to change the world.

More and more people are enjoying this new way of living and are taking steps to make their lives easier.

Both then and now, we at Becker have one key aim: We want to work together with you to be a reliable partner for people like this. Whether in their own homes or with complex building automation. With a high-quality drive or the complete Smart Home program.

We are delighted to be presenting this catalogue, which will help to make your work easier too. If you have any questions or comments about our products when planning your projects, please don’t hesitate to give us a call.

Yours sincerely

Frank Haubach

Frank Haubach  
Head of Sales / Marketing

P.S.: Do you know about our Becker Academy? We offer training courses and seminars on everything to do with our drives and control units. You can find out more in this catalogue, and at [www.becker-antriebe.com](http://www.becker-antriebe.com)



# Why Becker?

We offer people  
better quality of life,  
convenience and safety  
through innovative products  
„Made in Germany“

## A good decision

Careful selection of our suppliers, perfectly combined components and assemblies plus high production standards mean that our drives are built for reliability, long service life and smooth running. Together with our ideal range of control units, you get everything from a single source at Becker. So essentially the possibilities are limitless for your particular automation requirements.

## Quality to rely on

Today we operate globally, but as a familyowned business, we have kept our roots in the town of Sinn, in Hessen, where the company was first established. And we continue to manufacture our products in Germany. What's more, every drive is subjected to comprehensive testing on our specially developed test benches, ensuring quality that you and your customers can rely on.

## Simply efficient

We regard it as our key drive that we are certified to DIN EN ISO 9001, and that we strive constantly to become even better for our customers and partners. At the same time, we take our environmental responsibility very seriously, so energy efficiency is high on our list of priorities. We care for sustainable solutions of the highest quality.



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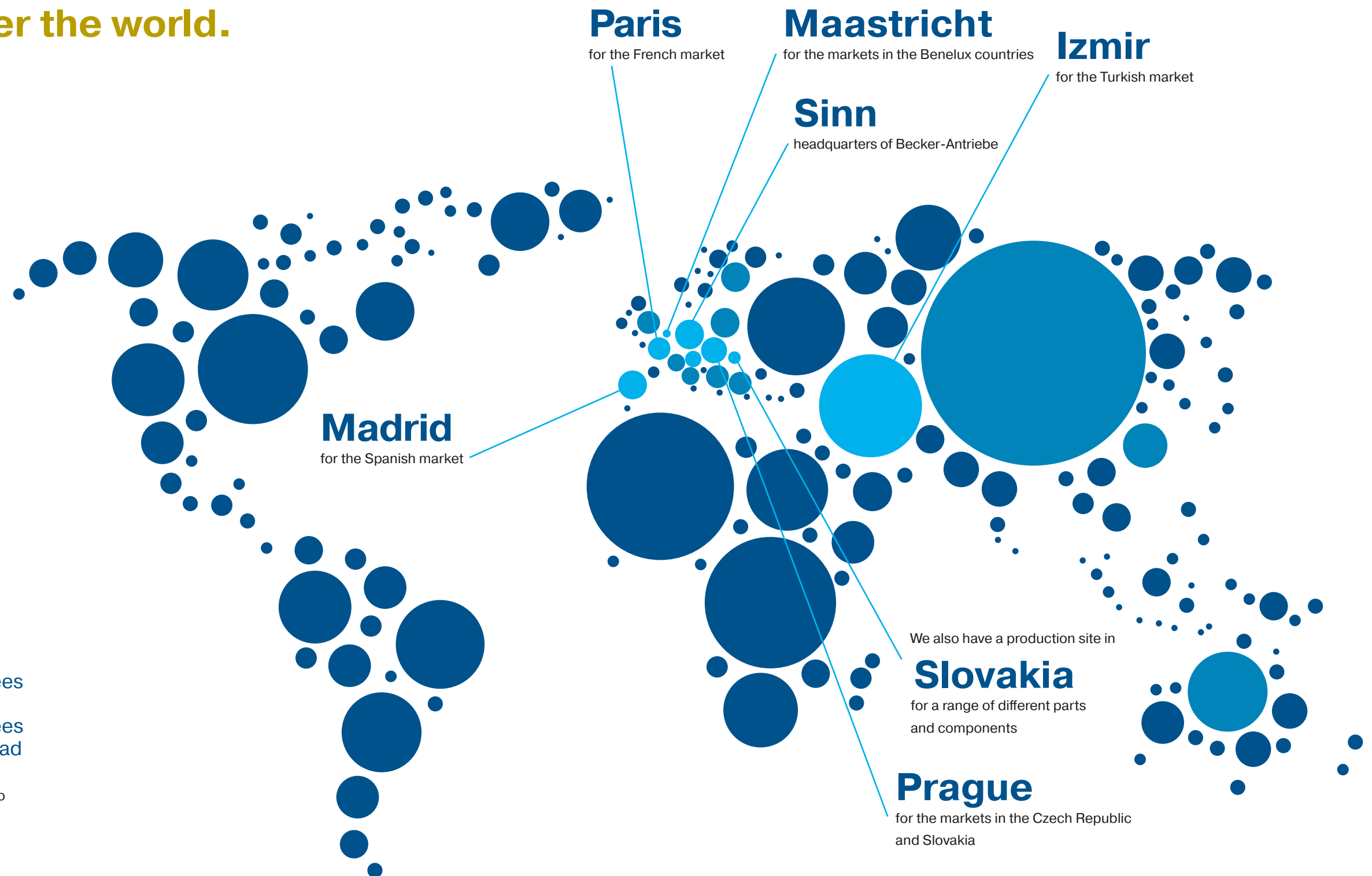


# At home all over the world.

More than **200** employees  
in Germany and  
another **100** employees  
abroad

help people throughout the world to  
make their lives safer and more  
convenient.

We are personally available for you, as  
well as our partners in the specialist  
trade, at many locations throughout  
Europe. In addition, we work together  
with representatives and permanent  
partners throughout the world.



● In addition to the global subsidiary companies shown above, you will find our other  
partners and representatives at [www.becker-antriebe.com](http://www.becker-antriebe.com)



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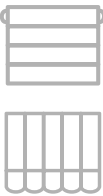
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Every drive is subject to comprehensive series testing according to VDE guidelines on the series test beds specially developed for the purpose. This guarantees the highest possible quality of our products.







# Universal drives with mechanical limit switching

P5-M04 ... P13-M04

R7-M04 ... R50-M04

L50-M04 ... L120-M04

- Suitable for use for:
- Roller shutters

■ Open and semi-open articulated-arm awnings

■ Cassette awnings

■ Drop-arm awnings

■ Markisolettes

■ ZIP screens

■ Conservatory awnings

■ Guided and unguided screens

■ Horizontal screens

■ Flouncies

■ Insect protection

■ Inside screens

■ Projection screen

**Mechanical limit switching:**  
limit position adjustment on the motor head

**Plug-in connecting cable,**  
available in a variety of lengths

**Particularly short design (R7-M04):**  
designed for use in narrow applications

**High speed (R7-85-M04)**  
for specific requirements

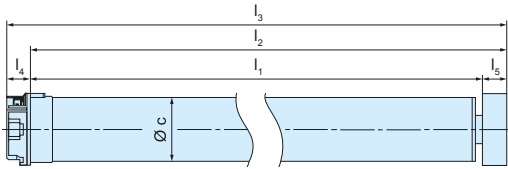
Technical data	Item number with bracket	Item number without bracket	Torque (Nm)	Speed (rpm)	Limit switch range (revolutions)	Nominal current (A)	Power consumption (W)	Connecting cable (m)
P5-20-M04	2009 110 100 0	2009 110 101 0	5	20	38	0,45	110	*
P5-30-M04	2009 110 102 0	2009 110 103 0	5	30	38	0,45	110	*
P9-16-M04	2009 110 104 0	2009 110 105 0	9	16	38	0,45	110	*
P13-9-M04	2009 110 106 0	2009 110 107 0	13	9	38	0,45	110	*
R7-17-M04	2010 110 041 0		7	17	17	0,45	90	3
R7-85-M04	2010 091 006 0		7	85	38	1,18	230	*
R8-17-M04	2010 110 100 0		8	17	38	0,45	100	*
R12-17-M04	2010 110 101 0		12	17	38	0,5	110	*
R20-17-M04	2020 110 100 0		20	17	38	0,7	160	*
R30-17-M04	2030 110 100 0		30	17	38	0,9	210	*
R40-17-M04	2040 110 100 0		40	17	38	1,15	260	*
R50-11-M04	2050 110 100 0		50	11	38	1,05	240	*
L50-17-M04	2050 110 101 0		50	17	36	1,4	315	*
L60-11-M04	2060 110 100 0		60	11	36	1,2	265	*
L60-17-M04	2060 110 101 0		60	17	36	1,75	380	*
L70-17-M04	2070 110 100 0		70	17	36	1,9	430	*
L80-11-M04	2080 110 100 0		80	11	36	1,4	310	*
L120-11-M04	2120 110 100 0		120	11	36	1,9	435	*

Rated voltage: 230 V/AC /50Hz    Operating mode: S2 4 min    Degree of protection: IP44

\*C-plug connecting cables are available in various versions and lengths, and are to be ordered separately (cf. table on page 84)

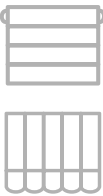


Dimensions (in mm)	I <sub>1</sub>	I <sub>2</sub>	I <sub>3</sub>	I <sub>4</sub>	I <sub>5</sub> **	Ø c
P5-20-M04	538	555 <sup>1</sup>	568 <sup>1</sup>	13	17 <sup>1</sup>	35
P5-30-M04	538	555 <sup>1</sup>	568 <sup>1</sup>	13	17 <sup>1</sup>	35
P9-16-M04	538	555 <sup>1</sup>	568 <sup>1</sup>	13	17 <sup>1</sup>	35
P13-9-M04	538	555 <sup>1</sup>	568 <sup>1</sup>	13	17 <sup>1</sup>	35
R7-17-M04	354	394 <sup>2</sup>	411 <sup>2</sup>	17	40 <sup>2</sup>	45
R7-85-M04	604	644 <sup>2</sup>	661 <sup>2</sup>	17	40 <sup>2</sup>	45
R8-17-M04	414	454 <sup>2</sup>	471 <sup>2</sup>	17	40 <sup>2</sup>	45
R12-17-M04	414	454 <sup>2</sup>	471 <sup>2</sup>	17	40 <sup>2</sup>	45
R20-17-M04	443	483 <sup>2</sup>	500 <sup>2</sup>	17	40 <sup>2</sup>	45
R30-17-M04	568	608 <sup>2</sup>	625 <sup>2</sup>	17	40 <sup>2</sup>	45
R40-17-M04	588	628 <sup>2</sup>	645 <sup>2</sup>	17	40 <sup>2</sup>	45
R50-11-M04	588	628 <sup>2</sup>	645 <sup>2</sup>	17	40 <sup>2</sup>	45
L50-17-M04	673,5	703,5 <sup>3</sup>	723,5 <sup>3</sup>	20	30 <sup>3</sup>	58
L60-11-M04	673,5	703,5 <sup>3</sup>	723,5 <sup>3</sup>	20	30 <sup>3</sup>	58
L60-17-M04	673,5	703,5 <sup>3</sup>	723,5 <sup>3</sup>	20	30 <sup>3</sup>	58
L70-17-M04	673,5	703,5 <sup>3</sup>	723,5 <sup>3</sup>	20	30 <sup>3</sup>	58
L80-11-M04	673,5	703,5 <sup>3</sup>	723,5 <sup>3</sup>	20	30 <sup>3</sup>	58
L120-11-M04	673,5	703,5 <sup>3</sup>	723,5 <sup>3</sup>	20	30 <sup>3</sup>	58



<sup>1</sup> Drive adapter width of S40 (4930 300 083 0) page 186, selection of a different drive adapter will change dimensions I<sub>2</sub>, I<sub>3</sub> and I<sub>5</sub>  
<sup>2</sup> Drive adapter width of S60L (4930 300 466 0) page 186, selection of a different drive adapter will change dimensions I<sub>2</sub>, I<sub>3</sub> and I<sub>5</sub>  
<sup>3</sup> Drive adapter width of SM70 (4931 300 080 0) page 187, selection of a different drive adapter will change dimensions I<sub>2</sub>, I<sub>3</sub> and I<sub>5</sub>





# Universal drives with crank connection

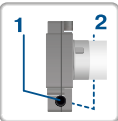
R12-M05 ... R50-M05

L50-M05 ... L120-M05

- Suitable for use for:
- Roller shutters
  - Open and semi-open articulated-arm awnings
  - Cassette awnings
  - Drop-arm awnings
  - Markisolettes



**Mechanical limit switching:**  
limit position adjustment on the motor head

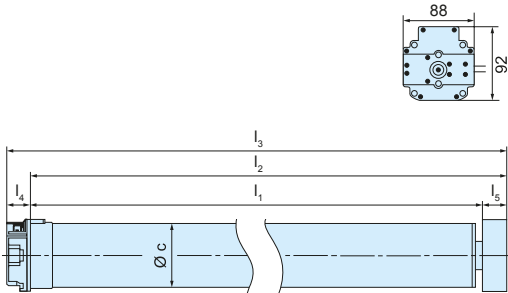


Crank can be inserted from 2 sides

Technical data	Item number	Torque (Nm)	Speed (rpm)	Limit switch range (revolutions)	Nominal current (A)	Power consumption (W)	Connecting cable (m)
R12-17-M05	2010 140 003 0	12	17	38	0,5	110	3
R20-17-M05	2020 140 004 0	20	17	38	0,7	160	3
R30-17-M05	2030 140 005 0	30	17	38	0,9	210	3
R40-17-M05	2040 140 006 0	40	17	38	1,15	260	3
R50-11-M05	2050 140 101 0	50	11	38	1,05	240	3
L50-17-M05	2050 040 100 0	50	17	38	1,4	315	3
L60-11-M05	2060 040 100 0	60	11	38	1,2	265	3
L60-17-M05	2060 040 102 0	60	17	38	1,75	380	3
L70-17-M05	2070 040 100 0	70	17	38	1,9	430	3
L80-11-M05	2080 040 100 0	80	11	38	1,4	310	3
L120-11-M05	2120 040 100 0	120	11	38	1,9	435	3

Rated voltage: 230 V/AC /50Hz    Operating mode: S2 4 min    Degree of protection: IP44

Dimensions (in mm)	I <sub>1</sub>	I <sub>2</sub>	I <sub>3</sub>	I <sub>4</sub>	I <sub>5</sub>	Ø c
R12-17-M05	637	677 <sup>1</sup>	704 <sup>1</sup>	27	40 <sup>1</sup>	45
R20-17-M05	677	717 <sup>1</sup>	744 <sup>1</sup>	27	40 <sup>1</sup>	45
R30-17-M05	677	717 <sup>1</sup>	744 <sup>1</sup>	27	40 <sup>1</sup>	45
R40-17-M05	697	737 <sup>1</sup>	764 <sup>1</sup>	27	40 <sup>1</sup>	45
R50-11-M05	697	737 <sup>1</sup>	764 <sup>1</sup>	27	40 <sup>1</sup>	45
L50-17-M05	748,5	778,5 <sup>2</sup>	805,5 <sup>2</sup>	27	30 <sup>2</sup>	58
L60-11-M05	748,5	778,5 <sup>2</sup>	805,5 <sup>2</sup>	27	30 <sup>2</sup>	58
L60-17-M05	748,5	778,5 <sup>2</sup>	805,5 <sup>2</sup>	27	30 <sup>2</sup>	58
L70-17-M05	748,5	778,5 <sup>2</sup>	805,5 <sup>2</sup>	27	30 <sup>2</sup>	58
L80-11-M05	748,5	778,5 <sup>2</sup>	805,5 <sup>2</sup>	27	30 <sup>2</sup>	58
L120-11-M05	748,5	778,5 <sup>2</sup>	805,5 <sup>2</sup>	27	30 <sup>2</sup>	58



<sup>1</sup> Drive adapter width of S60L (4930 300 466 0) page 186, selection of a different drive adapter will change dimensions I<sub>2</sub>, I<sub>3</sub> and I<sub>5</sub>  
<sup>2</sup> Drive adapter width of SM70 (4931 300 080 0) page 187, selection of a different drive adapter will change dimensions I<sub>2</sub>, I<sub>3</sub> and I<sub>5</sub>





# Roller shutter drives with electronic limit switching and crank connection

R12-E25 ... R40-E25

L60-E25 ... L120-E25

Suitable for use for:  
■ Roller shutters with fixed stops

**Blockage detection:** switches off in the event of obstructions (e.g. due to freezing) and torque increases

**Supports parallel connection**

**Electronic limit switching**

**Assembly only with fixed shaft connectors**

**Setting limit positions:** automatic detection with existing stops

**Intelligent installation management** allows for quick limit position corrections during installation

**Limit position status indicator:** the drive indicates the lack of a limit position by briefly stopping

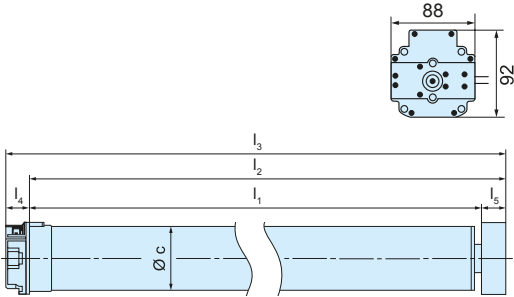
**Automatic shading solution length adjustment:** the shading solution length is automatically detected and corrected by the drive

Technical data	Item number	Torque (Nm)	Speed (rpm)	Limit switch range (revolutions)	Nominal current (A)	Power consumption (W)	Connecting cable (m)
R12-17-E25	2010 140 008 0	12	17	64	0,5	110	0,05
R20-17-E25	2020 140 009 0	20	17	64	0,75	160	0,05
R30-17-E25	2030 140 010 0	30	17	64	0,9	205	0,05
R40-17-E25	2040 140 011 0	40	17	64	1,15	260	0,05
L60-11-E25	2060 140 003 0	60	11	64	1,2	265	0,05
L80-11-E25	2080 140 003 0	80	11	64	1,4	310	0,05
L120-11-E25	2120 140 003 0	120	11	64	1,9	435	0,05

Rated voltage: 230 V/AC/50Hz    Operating mode: S2 4 min    Degree of protection: IP44

Dimensions (in mm)	I <sub>1</sub>	I <sub>2</sub>	I <sub>3</sub>	I <sub>4</sub>	I <sub>5</sub>	Ø c
R12-17-E25	637	677	704	27	40 <sup>1</sup>	45
R20-17-E25	677	717	744	27	40 <sup>1</sup>	45
R30-17-E25	677	717	744	27	40 <sup>1</sup>	45
R40-17-E25	697	737 <sup>1</sup>	764 <sup>1</sup>	27	40 <sup>1</sup>	45
L60-11-E25	747	777 <sup>2</sup>	804 <sup>2</sup>	27	30 <sup>2</sup>	58
L80-11-E25	747	777 <sup>2</sup>	804 <sup>2</sup>	27	30 <sup>2</sup>	58
L120-11-E25	747	777 <sup>2</sup>	804 <sup>2</sup>	27	30 <sup>2</sup>	58

<sup>1</sup> Drive adapter width of S60L (4930 300 466 0) page 186, selection of a different drive adapter will change dimensions I<sub>2</sub>, I<sub>3</sub> and I<sub>5</sub>  
<sup>2</sup> Drive adapter width of SM70 (4931 300 080 0) page 187, selection of a different drive adapter will change dimensions I<sub>2</sub>, I<sub>3</sub> and I<sub>5</sub>



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# DC drives

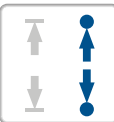


L35-M06 ... XL200-M06

Suitable for use for:  
■ Roller shutters



**Mechanical limit switching:** limit position adjustment on the motor head



**Setting limit positions:** fixed point upper and lower limit position programming

# DC drives with crank connection

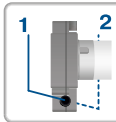


L60-M07 ... L120-M07

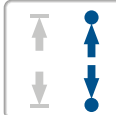
Suitable for use for:  
■ Roller shutters



**Mechanical limit switching:** limit position adjustment on the motor head



**Crank can be inserted from 2 sides**

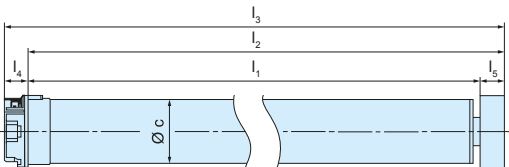


**Setting limit positions:** fixed point upper and lower limit position programming

Technical data		Item number	Torque (Nm)	Speed (rpm)	Limit switch range (revolutions)	Rated voltage (V/DC)	Nominal current (A)	Power consumption (W)
L35-8-M06		2035 060 002 0	35	8	36	12	9	100
L60-8-M06		2060 060 002 0	60	8	36	24	6,3	150
L120-3-M06		2120 060 001 0	120	3	36	24	5	120
XL60-8-G4A*		2060 096 015 0	60	8	36	24	6,3	150
XL120-3-G4A**		2120 096 007 0	120	3	36	24	5	120
XL200-3-G4A**		2200 096 001 0	200	3	36	24	6,8	163

Operating mode: S2 8 min Degree of protection: IP44 \*Degree of protection: IP45  
\*\*Degree of protection: IP55 Connecting cable: 4 m

Dimensions (in mm)	I <sub>1</sub>	I <sub>2</sub>	I <sub>3</sub>	I <sub>4</sub>	I <sub>5</sub>	Øc
L35-8-M06	583,5	613,5 <sup>1</sup>	633,5 <sup>1</sup>	20	30 <sup>1</sup>	58
L60-8-M06	583,5	613,5 <sup>1</sup>	633,5 <sup>1</sup>	20	30 <sup>1</sup>	58
L120-3-M06	606,5	636,5 <sup>1</sup>	656,5 <sup>1</sup>	20	30 <sup>1</sup>	58
XL60-8-G4A	583	613 <sup>1</sup>	633 <sup>1</sup>	20	30 <sup>1</sup>	58
XL120-3-G4A	606	636 <sup>1</sup>	656 <sup>1</sup>	20	30 <sup>1</sup>	58
XL200-3-G4A	776	806 <sup>1</sup>	826 <sup>1</sup>	20	30 <sup>1</sup>	58

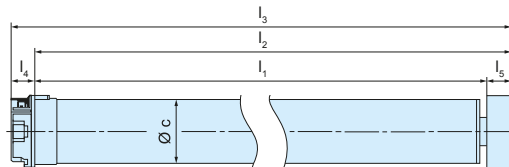


<sup>1</sup> Drive adapter width of SM70 (4931 300 080 0) page 187, selection of a different drive adapter will change dimensions I<sub>2</sub>, I<sub>3</sub> and I<sub>5</sub>

Technical data		Item number	Torque (Nm)	Speed (rpm)	Limit switch range (revolutions)	Rated voltage (V/DC)	Nominal current (A)	Nominal current (A)
L60-8-M07		2060 060 001 0	60	8	38	24	6,3	150
L120-3-M07		2120 060 002 0	120	3	38	24	5	120

Operating mode: S2 8 min Degree of protection: IP44 Connecting cable: 4 m

Dimensions (in mm)	I <sub>1</sub>	I <sub>2</sub>	I <sub>3</sub>	I <sub>4</sub>	I <sub>5</sub>	Øc
L60-8-M07	748,5	778,5 <sup>1</sup>	805,5 <sup>1</sup>	27	30 <sup>1</sup>	58
L120-3-M07	771,5	801,5 <sup>1</sup>	828,5 <sup>1</sup>	27	30 <sup>1</sup>	58



<sup>1</sup> Drive adapter width of SM70 (4931 300 080 0) page 187, selection of a different drive adapter will change dimensions I<sub>2</sub>, I<sub>3</sub> and I<sub>5</sub>



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# Escape door kit

for fitting out doors or windows with motorised shading solutions that serve as a second escape route

## HCS520

- The shading solution will move upwards automatically in the event of a power failure, e. g. due to a fire
- Blockage detection with reversal in the DOWN direction
- Additional redundancy due to mandatory safety switch
- Choice of touch mode or continuous operation
- Push-button connection for on-site operation
- Connection for central operation, smoke detectors etc.
- Control unit can be installed in a flush-mounted electronics box or a double cavity wall box
- Timer can be connected
- Can be integrated in the Centronic radio system using receivers
- On-site push-buttons, safety switches plus fittings for the drive and control unit are included with in the kit's scope of supply
- Kit includes assembly materials, tube adaption, motor bearings, flush-mounted electronics box, push-button for on-site operation and safety switches

Item no. 4007 000 026 0 (HCS520, 10 Nm)

Item no. 4007 000 029 0 (HCS520, 20 Nm)

	HCS520, 10 Nm	HCS520, 20 Nm
Drive	P10-11-M19	R20-17-M19
Speed	11 rpm	17 rpm
Nominal current	1,9 A	6,3 A
Operating voltage	12 V/DC	12 V/DC
Drive's cable length	3 m	3 m
Dimensions in mm	405x60x6	405x60x6
Drive's degree of protection	IP 44	IP 44
Control unit's degree of protection	IP 20	IP 20
Control unit's rated voltage	110-240 V AC / 50-60 Hz	110-240 V AC / 50-60 Hz
Control unit's switching capacity	5 A	5 A
Control unit's power consumption	< 0,3 W	< 0,3 W
Battery capacity	2.600 mAh	3.000 mAh

Escape door control unit HCS520 2.600 mAh

Item no. 4007 000 025 0

Battery for escape door control unit HCS520 2.600 mAh

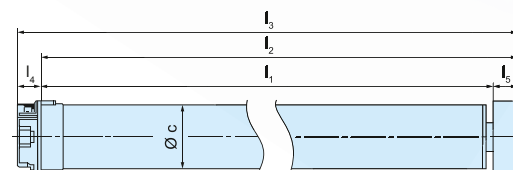
Item no. 4807 040 002 6

Cord switch set 12 V

Item no. 4901 002 188 0

Dimensions  
(in mm)

	$l_1$	$l_2$	$l_3$	$l_4$	$l_5$	$\varnothing c$
P10-11-M19	447	464 <sup>1</sup>	477 <sup>1</sup>	13	17 <sup>1</sup>	35
R20-17-M19	500	540 <sup>2</sup>	557 <sup>2</sup>	17	40 <sup>2</sup>	45



### Note:

There are no clear legal requirements regarding the use of battery-buffered control units in the second emergency route. The manufacturer cannot, therefore, grant generally valid or project-related product approvals for the aforementioned use. The final decision is taken by the respective fire safety authority.

Country-specific special regulations as well as local regulations and guidelines concerning this matter must be observed and applied under all circumstances.

Escape door control unit HCS520 3.000 mAh

Item no. 4007 000 028 0

Battery for escape door control unit HCS520 3.000 mAh

Item no. 4807 040 003 0

<sup>1</sup> P10-11-M19: Drive adapter width of 40x1 / 42x2 (4930 300 086 0) page 193, selection of a different drive adapter will change dimensions  $l_2$ ,  $l_3$  and  $l_5$

<sup>2</sup> R20-17-M19: Drive adapter width of drive adapter S60L (4930 300 466 0) page 186, selection of a different drive adapter will change dimensions  $l_2$ ,  $l_3$  and  $l_5$



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# SolarKit

for automation of roller shutters and vertical screens - independant from mains power

## SK460

- Mains power independent solution for roller shutter and screen applications
- Compact installation directly to the application unit, thereby the installation is possible outside the living space, no drill hole to the outside
- Compatible with Centronic radio controls
- Two freely selectable intermediate positions can be programmed
- Change of rotation direction with the help of Centronic radio control
- Radio receiver and charging electronic are integrated in the drive
- More than 100 operating cycles possible with one battery charge
- Electronic limit switch with blockage detection
- Point-to-point and end stop limit settings
- Theft-protection by usage of rigid shaft connectors
- Low noise level due to soft-start and soft-stop
- Scope of delivery: DC drive, solar panel and battery with brackets, Mini strip-P (4930 200 232 0), Wall bracket-P/R with catch (4930 300 382 0), Drive adapter / Ring S40 (4930 300 083 0 / 4930 300 085 0) and Drive adapter safety catch (4930 300 161 0)



**You need a Centronic radio control to install the SolarKit. Order now!**

Item no. 4034 000 233 0 (SK460, 6 Nm)		
Item no. 4034 000 234 0 (SK460, 10 Nm)		
	SK460 6 Nm	SK460 10 Nm
Drive torque	6 Nm	10 Nm
Drive	P6-20-C28	P10-11-C28
Speed	20 rpm	11 rpm
Nominal current	2,5 A	
Operating voltage	12 V/DC	
Drive's cable length	0,15 m	
Dimensions solar panel	455 x 60 x 6 mm	
Dimensions storage battery	430 x 26,5 x 23,5 mm	
Degree of protection	IP44	
Drive		
Solar panel		
Storage battery		
Cable length solar cell	0,3 m	
Cable length storage battery	0,3 m	

Y plug for external charging option (0,15 m)

**Item no. 4034 200 264 0**

Cable extension for solar panel (1,5 m)

**Item no. 4822 200 298 0**

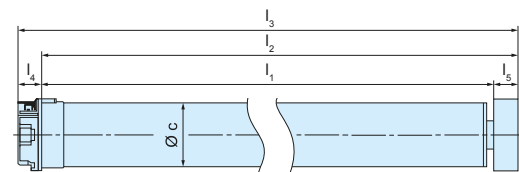
Power supply unit (type C) for external charging

**Item no. 4034 200 265 0**

Rated voltage	110–240 V AC / 50–60 Hz
Current	0,4 A
Operating voltage	15 V

<sup>1</sup> Drive adapter width of S40 (4930 300 083 0) page 186, selection of a different drive adapter will change dimensions  $l_2$ ,  $l_3$  and  $l_5$

Dimensions (in mm)	$l_1$	$l_2$	$l_3$	$l_4$	$l_5$	$\varnothing c$
<b>P6-20-C28</b>	402	419 <sup>1</sup>	432 <sup>1</sup>	13	17 <sup>1</sup>	35
<b>P10-11-C28</b>	402	419 <sup>1</sup>	432 <sup>1</sup>	13	17 <sup>1</sup>	35



## Single components

Solar panel set (incl. rivets)

**Item no. 4034 200 266 0**

Battery set (incl. brackets)

**Item no. 4807 220 014 0**

Bracket set for battery

**Item no. 4807 220 015 0**

Drive P6-20-C28

**Item no. 2006 060 015 0**

Drive P10-11-C28

**Item no. 2006 060 016 0**

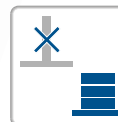
# Roller shutter drive for narrow windows

## R4-M17

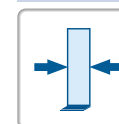
Suitable for use for:  
■ Roller shutters



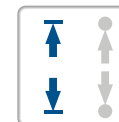
**Mechanical limit switching:** limit position adjustment on the motor head



**Assembly only with fixed shaft connectors**



**Particularly short design:** designed for use in narrow applications



**Setting limit positions:** automatic detection with existing stops

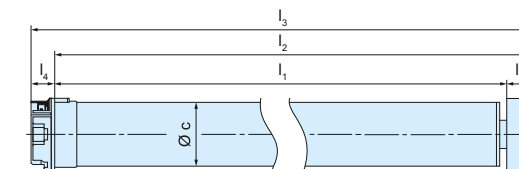
Technical data

	Item number	Torque (Nm)	Speed (rpm)	Limit switch range (revolutions)	Nominal current (A)	Power consumption (W)	Connecting cable (m)
<b>R4-17-M17</b>	2010 110 043 0	4	17	64	0,4	85	3
<b>Rigid safety springs</b>	4902 000 308 0						
<b>R4-17-M17 in a set incl. rigid safety springs</b>	2010 110 044 0	4	17	64	0,4	85	3

**Rated voltage:** 230 V/AC/50Hz **Operating mode:** S2 4 min **Degree of protection:** IP44

Dimensions (in mm)

	$l_1$	$l_2$	$l_3$	$l_4$	$l_5$	$\varnothing c$
<b>R4-17-M17</b>	331	351 <sup>1</sup>	373 <sup>1/3</sup>	22 <sup>2</sup>	20 <sup>1</sup>	45



<sup>1</sup> Drive adapter width of Rolm 60 (4930 300 044 0) page 186, selection of a different drive adapter will change dimensions  $l_2$ ,  $l_3$  and  $l_5$

<sup>2</sup> with drive adapter safety catch

<sup>3</sup> with Mini strip



**BECKER**





# Roller shutter drive with electronic limit switching "Evolution"

**EVO**LUTION

**R8-EVO 20 R...R20-EVO 20 R**

**R8-EVO 20 R BT...R20-EVO 20 R BT**

Suitable for use for:

- Roller shutters
- Projection screen

<b>EVO</b>	Evolution technology makes it possible to choose a variety of different travel profiles: standard, dynamic or silent operation	<b>Automatic increase of the pressing force</b> when using rigid shaft connectors	<b>Setting limit positions:</b> automatic detection with existing stops or fixed point limit position programming
<b>Blockage detection:</b> switches off in the event of obstructions (e.g. due to freezing) and torque increases	<b>Soft upper stop:</b> the application is optimally protected by the soft stopping	<b>Intelligent installation management</b> allows for quick limit position corrections during installation	<b>Limit position status indicator:</b> the drive indicates the lack of a limit position by briefly stopping
<b>Sensitive obstacle detection in the DOWN direction</b> for optimal protection of the application and the obstruction	<b>Fly screen protection function:</b> detects an open insect screen door and prevents damage to the system	<b>Automatic limit position detection</b> when flexible suspension springs or rigid shaft connectors are used	<b>Automatic shading solution length adjustment:</b> the shading solution length is automatically detected and corrected by the drive
<b>Dynamic torque adjustment:</b> the drive continually and automatically adjusts the required torque in line with the particular application	<b>Supports parallel connection</b>	<b>Particularly smooth-running motor technology</b>	<b>Upper anti-freeze mechanism:</b> the drive stops shortly before reaching the upper stop limit position; this position is cyclically monitored and corrected
<b>Particularly smooth-running motor technology</b>	<b>Plug-in connecting cable,</b> available in a variety of lengths	<b>Electronic limit switching</b>	

Technical data	Item number	Item number with Bluetooth interface (BT)	Torque (Nm)	Speed (rpm)	Limit switch range (revolutions)	Nominal current (A)	Power consumption (W)	Connecting cable (m)
<b>R8-17-EVO 20 R (BT)</b>	1010 120 001 0	1010 120 003 0	8	17	64	0,26	40	*
<b>R12-17-EVO 20 R (BT)</b>	1010 120 002 0	1010 120 004 0	12	17	64	0,35	50	*
<b>R20-17-EVO 20 R (BT)</b>	1020 120 001 0	1020 120 002 0	20	17	64	0,55	90	*

**Rated voltage:** 230V AC/50Hz **Operating mode:** S2 4 min **Degree of protection:** IP44

Dimensions (in mm)	I <sub>1</sub>	I <sub>2</sub>	I <sub>3</sub>	I <sub>4</sub>	I <sub>5</sub>	Øc
<b>R8-17-EVO 20 R (BT)</b>	493,5	533,5 <sup>1</sup>	549,5 <sup>1</sup>	13	40 <sup>1</sup>	45
<b>R12-17-EVO 20 R (BT)</b>	493,5	533,5 <sup>1</sup>	549,5 <sup>1</sup>	13	40 <sup>1</sup>	45
<b>R20-17-EVO 20 R (BT)</b>	493,5	533,5 <sup>1</sup>	549,5 <sup>1</sup>	13	40 <sup>1</sup>	45

\* C-plug connecting cables are available in various versions and lengths, and are to be ordered separately (cf. table on page 84)

<sup>1</sup> Drive adapter width of S60L (4930 300 466 0) page 186, selection of a different drive adapter will change dimensions I<sub>2</sub>, I<sub>3</sub> and I<sub>5</sub>

# Roller shutter drive with electronic limit switching in the Evolution series for roller shutters with blind function

**EVO**LUTION

**R8-EVO 20 RJ...R20-EVO 20 RJ**

Suitable for use for:

- Roller shutters with blind function

<b>EVO</b>	Evolution technology makes it possible to choose a variety of different travel profiles: standard, dynamic or silent operation	<b>Automatic increase of the pressing force</b> when using rigid shaft connectors	<b>Suitable for use with roller shutters with blind function</b>
<b>Blockage detection:</b> switches off in the event of obstructions (e.g. due to freezing) and torque increases	<b>Soft upper stop:</b> the application is optimally protected by the soft stopping	<b>Intelligent installation management</b> allows for quick limit position corrections during installation	<b>Limit position status indicator:</b> the drive indicates the lack of a limit position by briefly stopping
<b>Sensitive obstacle detection in the DOWN direction</b> for optimal protection of the application and the obstruction	<b>Fly screen protection function:</b> detects an open insect screen door and prevents damage to the system	<b>Automatic limit position detection</b> when flexible suspension springs or rigid shaft connectors are used	<b>Automatic shading solution length adjustment:</b> the shading solution length is automatically detected and corrected by the drive
<b>Dynamic torque adjustment:</b> the drive continually and automatically adjusts the required torque in line with the particular application	<b>Supports parallel connection</b>	<b>Particularly smooth-running motor technology</b>	<b>Upper anti-freeze mechanism:</b> the drive stops shortly before reaching the upper stop limit position; this position is cyclically monitored and corrected
<b>Particularly smooth-running motor technology</b>	<b>Plug-in connecting cable,</b> available in a variety of lengths	<b>Electronic limit switching</b>	

Technical data	Item number	Torque (Nm)	Speed (rpm)	Limit switch range (revolutions)	Nominal current (A)	Power consumption (W)	Connecting cable (m)
<b>R8-14-EVO 20 RJ</b>	1010 120 005 0	8	14	64	0,26	40	*
<b>R12-14-EVO 20 RJ</b>	1010 120 006 0	12	14	64	0,32	50	*
<b>R20-14-EVO 20 RJ</b>	1020 120 005 0	20	14	64	0,55	90	*

**Rated voltage:** 230V AC/50Hz **Operating mode:** S2 4 min **Degree of protection:** IP44

Dimensions (in mm)	I <sub>1</sub>	I <sub>2</sub>	I <sub>3</sub>	I <sub>4</sub>	I <sub>5</sub>	Øc
<b>R8-14-EVO 20 RJ</b>	493,5	533,5 <sup>1</sup>	549,5 <sup>1</sup>	13	40 <sup>1</sup>	45
<b>R12-14-EVO 20 RJ</b>	493,5	533,5 <sup>1</sup>	549,5 <sup>1</sup>	13	40 <sup>1</sup>	45
<b>R20-14-EVO 20 RJ</b>	493,5	533,5 <sup>1</sup>	549,5 <sup>1</sup>	13	40 <sup>1</sup>	45

\* C-plug connecting cables are available in various versions and lengths, and are to be ordered separately (cf. table on page 84)

<sup>1</sup> Drive adapter width of S60L (4930 300 466 0) page 186, selection of a different drive adapter will change dimensions I<sub>2</sub>, I<sub>3</sub> and I<sub>5</sub>



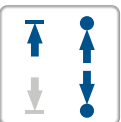
**BECKER**



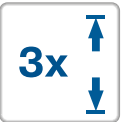


# Roller shutter drives with electronic limit switching

## P5/16PR+ ... P9/16PR+



**Setting limit positions:** automatic detection with existing upper stop and fixed point upper/lower limit position programming



**Intelligent installation management** allows for quick limit position corrections during installation



**Setting of limit positions via switch on the drive head** without the need for a special programming unit



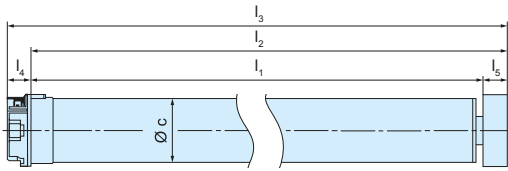
**Automatic shading solution length adjustment:** the shading solution length is automatically detected and corrected by the drive



Technical data	Item number with bracket	Item number without bracket	Torque (Nm)	Speed (rpm)	Limit switch range (revolutions)	Nominal current (A)	Power consumption (W)	Connecting cable (m)
P5/16PR+	2009 020 110 0	2009 020 109 0	5	16	64	0,36	85	3
P5/20PR+	2009 020 107 0	2009 020 105 0	5	20	64	0,47	115	3
P9/16PR+	2009 020 108 0	2009 020 106 0	9	16	64	0,47	110	3

Rated voltage: 230 V/AC /50Hz    Operating mode: S2 4 min    Degree of protection: IP44

Dimensions (in mm)	I <sub>1</sub>	I <sub>2</sub>	I <sub>3</sub>	I <sub>4</sub>	I <sub>5</sub>	Øc
P5/16PR+	403	420 <sup>1</sup>	432 <sup>1</sup>	12	17 <sup>1</sup>	35
P5/20PR+	403	420 <sup>1</sup>	432 <sup>1</sup>	12	17 <sup>1</sup>	35
P9/16PR+	448	465 <sup>1</sup>	477 <sup>1</sup>	12	17 <sup>1</sup>	35



<sup>1</sup> Drive adapter width of S40 (4930 300 083 0) page 186, selection of a different drive adapter will change dimensions I<sub>2</sub>, I<sub>3</sub> and I<sub>5</sub>





# Roller shutter drives with electronic limit switching

P5-E01 ... P9-E01

R8-E01 ... R40-E01

Suitable for use for:

- Roller shutters
- Insect protection



**Blockage detection:** switches off in the event of obstructions (e.g. due to freezing) and torque increases



**Sensitive obstacle detection in the DOWN direction** for optimal protection of the application and the obstruction



**Dynamic torque adjustment:** the drive continually and automatically adjusts the required torque in line with the particular application



**Upper anti-freeze mechanism:** the drive stops shortly before reaching the upper stop limit position; this position is cyclically monitored and corrected



**Automatic increase of the pressing force** when using rigid shaft connectors



**Soft upper stop:** the application is optimally protected by the soft stopping



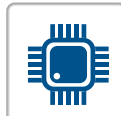
**Fly screen protection function:** detects an open insect screen door and prevents damage to the system



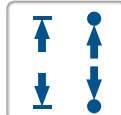
**Supports parallel connection**



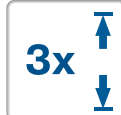
**Plug-in connecting cable,** available in a variety of lengths



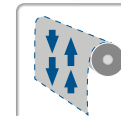
**Electronic limit switching**



**Setting limit positions:** automatic detection with existing stops or fixed point limit position programming



**Intelligent installation management** allows for quick limit position corrections during installation



**Limit position status indicator:** the drive indicates the lack of a limit position by briefly stopping



**Setting of limit positions via switch on the drive head** without the need for a special programming unit



**Automatic limit position detection** when flexible suspension springs or rigid shaft connectors are used



**Automatic shading solution length adjustment:** the shading solution length is automatically detected and corrected by the drive

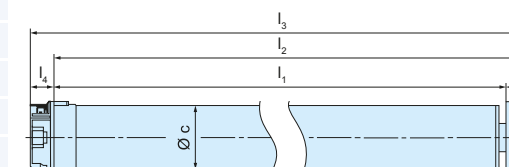


Technical data	Item number with bracket	Item number without bracket	Torque (Nm)	Speed (rpm)	Limit switch range (revolutions)	Nominal current (A)	Power consumption (W)	Connecting cable (m)
P5-16-E01	2009 120 110 0	2009 120 111 0	5	16	64	0,35	80	*
P9-16-E01	2009 120 108 0	2009 120 109 0	9	16	64	0,45	110	*
R8-17-E01	2010 120 139 0		8	17	64	0,45	100	*
R12-17-E01	2010 120 140 0		12	17	64	0,5	110	*
R20-17-E01	2020 120 119 0		20	17	64	0,7	160	*
R30-17-E01	2030 120 118 0		30	17	64	0,9	210	*
R40-17-E01	2040 120 115 0		40	17	64	1,15	260	*

Rated voltage: 230 V/AC /50Hz    Operating mode: S2 4 min    Degree of protection: IP44

\* C-plug connecting cables are available in various versions and lengths, and are to be ordered separately (cf. table on page 84)

Dimensions (in mm)	I <sub>1</sub>	I <sub>2</sub>	I <sub>3</sub>	I <sub>4</sub>	I <sub>5</sub>	Ø c
P5-16-E01	404	444 <sup>1</sup>	457 <sup>1</sup>	13	40 <sup>1</sup>	35
P9-16-E01	453	493 <sup>1</sup>	506 <sup>1</sup>	13	40 <sup>1</sup>	35
R8-17-E01	471	511 <sup>2</sup>	528 <sup>2</sup>	17	40 <sup>2</sup>	45
R12-17-E01	471	511 <sup>2</sup>	528 <sup>2</sup>	17	40 <sup>2</sup>	45
R20-17-E01	500	540 <sup>2</sup>	557 <sup>2</sup>	17	40 <sup>2</sup>	45
R30-17-E01	525	565 <sup>2</sup>	582 <sup>2</sup>	17	40 <sup>2</sup>	45
R40-17-E01	539,5	579,5 <sup>2</sup>	596,5 <sup>2</sup>	17	40 <sup>2</sup>	45



<sup>1</sup> Drive adapter width of O-S40 (4930 200 250 0) page 197, selection of a different drive adapter will change dimensions I<sub>2</sub>, I<sub>3</sub> and I<sub>5</sub>

<sup>2</sup> Drive adapter width of O-S60 (4930 200 222 0) page 197, selection of a different drive adapter will change dimensions I<sub>2</sub>, I<sub>3</sub> and I<sub>5</sub>



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# Roller shutter drives with electronic limit switching

R8-E02 ... R30-E02

Suitable for use for:  
■ Roller shutters  
■ Insect protection

**Blockage detection:** switches off in the event of obstructions (e.g. due to freezing) and torque increases

**Sensitive obstacle detection in the DOWN direction** for optimal protection of the application and the obstruction

**Dynamic torque adjustment:** the drive continually and automatically adjusts the required torque in line with the particular application

**Upper anti-freeze mechanism:** the drive stops shortly before reaching the upper stop limit position; this position is cyclically monitored and corrected

**Automatic increase of the pressing force** when using rigid shaft connectors

**Soft upper stop:** the application is optimally protected by the soft stopping

**Supports parallel connection**

**Electronic limit switching**

**Setting limit positions:** automatic detection with existing stops

**Intelligent installation management** allows for quick limit position corrections during installation

**Limit position status indicator:** the drive indicates the lack of a limit position by briefly stopping

**Automatic limit position detection** when flexible suspension springs or rigid shaft connectors are used

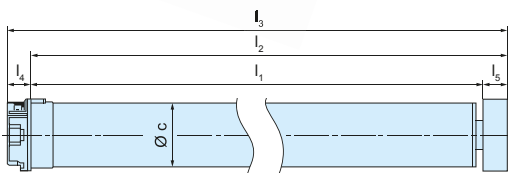
**Automatic shading solution length adjustment:** the shading solution length is automatically detected and corrected by the drive

Technical data	Item number	Torque (Nm)	Speed (rpm)	Limit switch range (revolutions)	Nominal current (A)	Power consumption (W)	Connecting cable (m)
R8-17-E02	2010 120 150 0	8	17	64	0,45	100	3
R12-17-E02	2010 120 151 0	12	17	64	0,5	110	3
R20-17-E02	2020 120 124 0	20	17	64	0,75	130	3
R30-17-E02	2030 120 124 0	30	17	64	0,9	205	3

Rated voltage: 230 V/AC /50Hz    Operating mode: S2 4 min    Degree of protection: IP44



Dimensions (in mm)	I <sub>1</sub>	I <sub>2</sub>	I <sub>3</sub>	I <sub>4</sub>	I <sub>5</sub>	Øc
R8-17-E02	483	522 <sup>1</sup>	538 <sup>1</sup>	16	40 <sup>1</sup>	45
R12-17-E02	453	522 <sup>1</sup>	538 <sup>1</sup>	16	40 <sup>1</sup>	45
R20-17-E02	511	551 <sup>1</sup>	567 <sup>1</sup>	16	40 <sup>1</sup>	45
R30-17-E02	536	576 <sup>1</sup>	592 <sup>1</sup>	16	40 <sup>1</sup>	45



<sup>1</sup> Drive adapter width of S60L (4930 300 466 0) page 186, selection of a different drive adapter will change dimensions I<sub>2</sub>, I<sub>3</sub> and I<sub>5</sub>





# Roller shutter drives with electronic limit switching

P5-E03 ... P9-E03

R8-E03 ... R30-E03

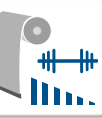
Suitable for use for:  
■ Roller shutters  
■ Insect protection



**Blockage detection:** switches off in the event of obstructions (e.g. due to freezing) and torque increases



**Sensitive obstacle detection in the DOWN direction** for optimal protection of the application and the obstruction



**Dynamic torque adjustment:** the drive continually and automatically adjusts the required torque in line with the particular application



**Upper anti-freeze mechanism:** the drive stops shortly before reaching the upper stop limit position; this position is cyclically monitored and corrected



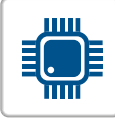
**Automatic increase of the pressing force** when using rigid shaft connectors



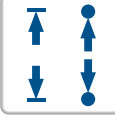
**Soft upper stop:** the application is optimally protected by the soft stopping



**Supports parallel connection**



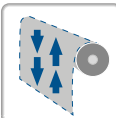
**Electronic limit switching**



**Setting limit positions:** automatic detection with existing stops or fixed point limit position programming



**Intelligent installation management** allows for quick limit position corrections during installation



**Limit position status indicator:** the drive indicates the lack of a limit position by briefly stopping



**Automatic limit position detection** when flexible suspension springs or rigid shaft connectors are used



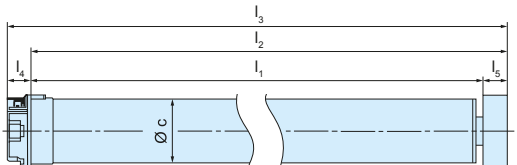
**Automatic shading solution length adjustment:** the shading solution length is automatically detected and corrected by the drive



Technical data	Item number with bracket	Item number without bracket	Item number 5 m Kabel	Torque (Nm)	Speed (rpm)	Limit switch range (revolutions)	Nominal current (A)	Power consumption (W)	Connecting cable (m)
P5-16-E03	2009 120 104 0	2009 120 105 0		5	16	64	0,35	80	3
P9-16-E03	2009 120 106 0	2009 120 107 0		9	16	64	0,45	110	3
R8-17-E03	2010 120 142 0		2010 120 148 0	8	17	64	0,45	100	3/5
R12-17-E03	2010 120 143 0		2010 120 149 0	12	17	64	0,5	110	3/5
R20-17-E03	2020 120 120 0		2020 120 123 0	20	17	64	0,7	160	3/5
R30-17-E03	2030 120 120 0		2030 120 123 0	30	17	64	0,9	210	3/5

Rated voltage: 230 V/AC /50Hz    Operating mode: S2 4 min    Degree of protection: IP44

Dimensions (in mm)	I <sub>1</sub>	I <sub>2</sub>	I <sub>3</sub>	I <sub>4</sub>	I <sub>5</sub>	Øc
P5-16-E03	424	441 <sup>1</sup>	453 <sup>1</sup>	12	17 <sup>1</sup>	35
P9-16-E03	454	471 <sup>1</sup>	483 <sup>1</sup>	12	17 <sup>1</sup>	35
R8-17-E03	476,5	516,5 <sup>2</sup>	532,5 <sup>2</sup>	16	40 <sup>2</sup>	45
R12-17-E03	476,5	516,5 <sup>2</sup>	532,5 <sup>2</sup>	16	40 <sup>2</sup>	45
R20-17-E03	505,5	545,5 <sup>2</sup>	561,5 <sup>2</sup>	16	40 <sup>2</sup>	45
R30-17-E03	530,5	570,5 <sup>2</sup>	586,5 <sup>2</sup>	16	40 <sup>2</sup>	45



<sup>1</sup> Drive adapter width of S40 (4930 300 083 0) page 186, selection of a different drive adapter will change dimensions I<sub>2</sub>, I<sub>3</sub> and I<sub>5</sub>  
<sup>2</sup> Drive adapter width of S60L (4930 300 466 0) page 186, selection of a different drive adapter will change dimensions I<sub>2</sub>, I<sub>3</sub> and I<sub>5</sub>





# Roller shutter drives with electronic limit switching

R8-E03 ... R30-E03 with angled plug

Suitable for use for:

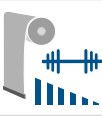
- Roller shutters
- Insect protection



**Blockage detection:** switches off in the event of obstructions (e.g. due to freezing) and torque increases



**Sensitive obstacle detection in the DOWN direction** for optimal protection of the application and the obstruction



**Dynamic torque adjustment:** the drive continually and automatically adjusts the required torque in line with the particular application



**Upper anti-freeze mechanism:** the drive stops shortly before reaching the upper stop limit position; this position is cyclically monitored and corrected



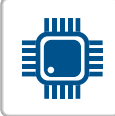
**Automatic increase of the pressing force** when using rigid shaft connectors



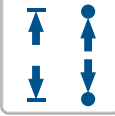
**Soft upper stop:** the application is optimally protected by the soft stopping



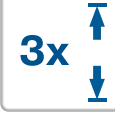
**Supports parallel connection**



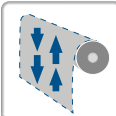
**Electronic limit switching**



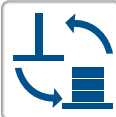
**Setting limit positions:** automatic detection with existing stops or fixed point limit position programming



**Intelligent installation management** allows for quick limit position corrections during installation



**Limit position status indicator:** the drive indicates the lack of a limit position by briefly stopping



**Automatic limit position detection** when flexible suspension springs or rigid shaft connectors are used



**Automatic shading solution length adjustment:** the shading solution length is automatically detected and corrected by the drive



Technical data

	Item number	Torque (Nm)	Speed (rpm)	Limit switch range (revolutions)	Nominal current (A)	Power consumption (W)	Connecting cable (m)
R8-17-E03 Winkelstecker	2010 120 144 0	8	17	64	0,45	100	0,09
R12-17-E03 Winkelstecker	2010 120 145 0	12	17	64	0,5	110	0,09
R20-17-E03 Winkelstecker	2020 120 121 0	20	17	64	0,75	160	0,09
R30-17-E03 Winkelstecker	2030 120 121 0	30	17	64	0,9	205	0,09

Rated voltage: 230 V/AC /50Hz

Operating mode: S2 4 min

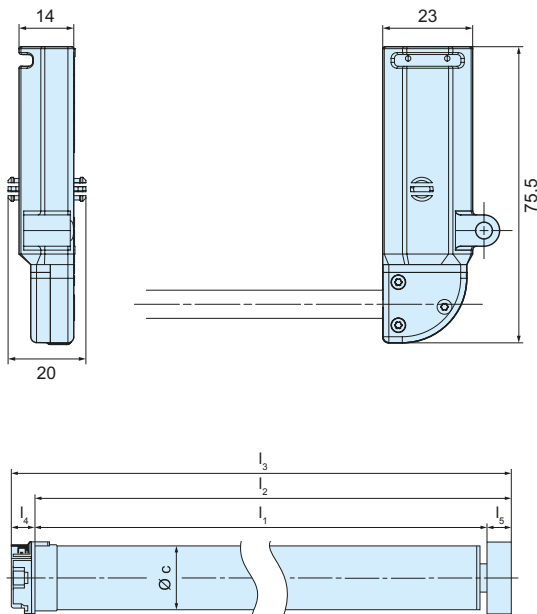
Degree of protection: IP44

Dimensions angled plug

2010 270 653 0

Dimensions (in mm)

	I <sub>1</sub>	I <sub>2</sub>	I <sub>3</sub>	I <sub>4</sub>	I <sub>5</sub>	Ø c
R8-17-E03	483	522 <sup>1</sup>	538 <sup>1</sup>	16	40 <sup>1</sup>	45
R12-17-E03	453	522 <sup>1</sup>	538 <sup>1</sup>	16	40 <sup>1</sup>	45
R20-17-E03	511	551 <sup>1</sup>	567 <sup>1</sup>	16	40 <sup>1</sup>	45
R30-17-E03	536	576 <sup>1</sup>	592 <sup>1</sup>	16	40 <sup>1</sup>	45



<sup>1</sup> Drive adapter width of S60-L (4930 300 466 0) page 186, selection of a different drive adapter will change dimensions I<sub>2</sub>, I<sub>3</sub> and I<sub>5</sub>





# Roller shutter drives with electronic limit switching

**R8-E14 ... R40-E14**

Suitable for use for:

- Roller shutters
- Insect protection



**Blockage detection:** switches off in the event of obstructions (e.g. due to freezing) and torque increases



**Dynamic torque adjustment:** the drive continually and automatically adjusts the required torque in line with the particular application



**Upper anti-freeze mechanism:** the drive stops shortly before reaching the upper stop limit position; this position is cyclically monitored and corrected



**Automatic increase of the pressing force** when using rigid shaft connectors



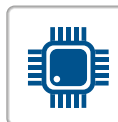
**Soft upper stop:** the application is optimally protected by the soft stopping



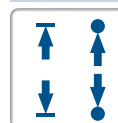
**Supports parallel connection**



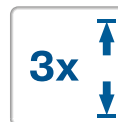
**Plug-in connecting cable,** available in a variety of lengths



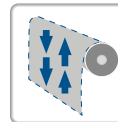
**Electronic limit switching**



**Setting limit positions:** automatic detection with existing stops or fixed point limit position programming



**Intelligent installation management** allows for quick limit position corrections during installation



**Limit position status indicator:** the drive indicates the lack of a limit position by briefly stopping



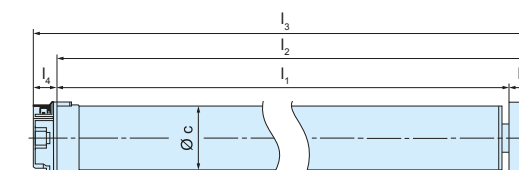
**Automatic shading solution length adjustment:** the shading solution length is automatically detected and corrected by the drive



Technical data	Item number with bracket	Torque (Nm)	Speed (rpm)	Limit switch range (revolutions)	Nominal current (A)	Power consumption (W)	Connecting cable (m)
<b>R8-17-E14</b>	2010 120 146 0	8	17	64	0,45	100	*
<b>R12-17-E14</b>	2010 120 147 0	12	17	64	0,5	110	*
<b>R20-17-E14</b>	2020 120 122 0	20	17	64	0,75	160	*
<b>R30-17-E14</b>	2030 120 122 0	30	17	64	0,9	205	*
<b>R40-17-E14</b>	2040 120 116 0	40	17	64	1,15	230	*

**Rated voltage:** 230 V/AC /50Hz **Operating mode:** S2 4 min **Degree of protection:** IP44

Dimensions (in mm)	I <sub>1</sub>	I <sub>2</sub>	I <sub>3</sub>	I <sub>4</sub>	I <sub>5</sub>	Øc
<b>R8-17-E14</b>	473	513 <sup>1</sup>	529 <sup>1</sup>	16	40 <sup>1</sup>	45
<b>R12-17-E14</b>	473	513 <sup>1</sup>	529 <sup>1</sup>	16	40 <sup>1</sup>	45
<b>R20-17-E14</b>	502	542 <sup>1</sup>	558 <sup>1</sup>	16	40 <sup>1</sup>	45
<b>R30-17-E14</b>	527	567 <sup>1</sup>	583 <sup>1</sup>	16	40 <sup>1</sup>	45
<b>R40-17-E14</b>	540	580 <sup>1</sup>	596 <sup>1</sup>	16	40 <sup>1</sup>	45



\*C-plug connecting cables are available in various versions and lengths, and are to be ordered separately (cf. table on page 84)

<sup>1</sup> Drive adapter width of S60L (4930 300 466 0) page 186, selection of a different drive adapter will change dimensions I<sub>2</sub>, I<sub>3</sub> and I<sub>5</sub>



**BECKER**





# SMI-Roller shutter drives with electronic limit switching

P5-S01 ... P9-S01

R8-S01 ... R40-S01

Suitable for use for:  
■ Roller shutters

**Blockage detection:** switches off in the event of obstructions (e.g. due to freezing) and torque increases

**Fly screen protection function:** detects an open insect screen door and prevents damage to the system

**Soft upper stop:** the application is optimally protected by the soft stopping

**Supports parallel connection**

**Plug-in connecting cable,** available in a variety of lengths

**Setting limit positions:** automatic detection with existing stops or fixed point limit position programming

**Upper anti-freeze mechanism:** the drive stops shortly before reaching the upper stop limit position; this position is cyclically monitored and corrected

**Intelligent installation management** allows for quick limit position corrections during installation

**Dynamic torque adjustment:** the drive continually and automatically adjusts the required torque in line with the particular application

**Two intermediate positions can be programmed**

**Automatic increase of the pressing force** when using rigid shaft connectors

**Limit position status indicator:** the drive indicates the lack of a limit position by briefly stopping

**Automatic limit position detection** when flexible suspension springs or rigid shaft connectors are used

**Automatic shading solution length adjustment:** the shading solution length is automatically detected and corrected by the drive

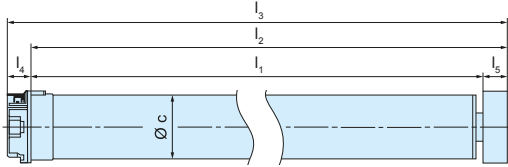
**Switch on the motor head** to change the direction of rotation



Technical data	Item number with bracket	Item number without bracket	Torque (Nm)	Speed (rpm)	Limit switch range (revolutions)	Nominal current (A)	Power consumption (W)	Connecting cable (m)
P5-16-S01	2009 120 503 0	2009 120 505 0	5	16	64	0,35	80	*
P9-16-S01	2009 120 504 0	2009 120 506 0	9	16	64	0,45	110	*
R8-17-S01	2010 120 503 0		8	17	64	0,45	100	*
R12-17-S01	2010 120 504 0		12	17	64	0,5	110	*
R20-17-S01	2020 120 502 0		20	17	64	0,7	160	*
R30-17-S01	2030 120 502 0		30	17	64	0,9	210	*
R40-17-S01	2040 120 502 0		40	17	64	1,15	260	*

Rated voltage: 230 V/AC / 50Hz    Operating mode: S2 4 min    Degree of protection: IP44

Dimensions (in mm)	I <sub>1</sub>	I <sub>2</sub>	I <sub>3</sub>	I <sub>4</sub>	I <sub>5</sub>	Øc
P5-16-S01	423	463 <sup>1</sup>	476 <sup>1</sup>	13	40 <sup>1</sup>	35
P9-16-S01	453	493 <sup>1</sup>	506 <sup>1</sup>	13	40 <sup>1</sup>	35
R8-17-S01	471	511 <sup>2</sup>	528 <sup>2</sup>	17	40 <sup>2</sup>	45
R12-17-S01	471	511 <sup>2</sup>	528 <sup>2</sup>	17	40 <sup>2</sup>	45
R20-17-S01	500	540 <sup>2</sup>	557 <sup>2</sup>	17	40 <sup>2</sup>	45
R30-17-S01	524	564 <sup>2</sup>	581 <sup>2</sup>	17	40 <sup>2</sup>	45
R40-17-S01	539	579 <sup>2</sup>	596 <sup>2</sup>	17	40 <sup>2</sup>	45



\*C-plug connecting cables are available in various versions and lengths, and are to be ordered separately (cf. table on page 84)

<sup>1</sup> Drive adapter width of O-S40 (4930 200 250 0) page 197, selection of a different drive adapter will change dimensions I<sub>2</sub>, I<sub>3</sub> and I<sub>5</sub>  
<sup>2</sup> Drive adapter width of O-S60 (4930 200 222 0) page 197, selection of a different drive adapter will change dimensions I<sub>2</sub>, I<sub>3</sub> and I<sub>5</sub>





# Roller shutter drives with integrated radio receiver

P5-C01 ... P9-C01

R8-C01...R40-C01

Suitable for use for:  
■ Roller shutters  
■ Insect protection

**Blockage detection:** switches off in the event of obstructions (e.g. due to freezing) and torque increases

**Fly screen protection function:** detects an open insect screen door and prevents damage to the system

**Memory function:** integrated timer can be activated via MemoryControl transmitter

**Two intermediate positions can be programmed**

**Upper anti-freeze mechanism:** the drive stops shortly before reaching the upper stop limit position; this position is cyclically monitored and corrected

**Plug-in connecting cable,** available in a variety of lengths

**Soft upper stop:** the application is optimally protected by the soft stopping

**Fly screen protection function:** detects an open insect screen door and prevents damage to the system

**Blockage detection:** switches off in the event of obstructions (e.g. due to freezing) and torque increases

**Fly screen protection function:** detects an open insect screen door and prevents damage to the system

**Memory function:** integrated timer can be activated via MemoryControl transmitter

**Two intermediate positions can be programmed**

**Upper anti-freeze mechanism:** the drive stops shortly before reaching the upper stop limit position; this position is cyclically monitored and corrected

**Plug-in connecting cable,** available in a variety of lengths

**Soft upper stop:** the application is optimally protected by the soft stopping

**Fly screen protection function:** detects an open insect screen door and prevents damage to the system

Technical data	Item number with bracket	Item number without bracket	Torque (Nm)	Speed (rpm)	Limit switch range (revolutions)	Nominal current (A)	Power consumption (W)	Connecting cable (m)
P5-16-C01	2009 120 120 0	2009 120 121 0	5	16	64	0,36	85	*
P9-16-C01	2009 120 122 0	2009 120 123 0	9	16	64	0,47	110	*
R8-17-C01	2010 120 163 0		8	17	64	0,45	100	*
R12-17-C01	2010 120 164 0		12	17	64	0,50	110	*
R20-17-C01	2020 120 132 0		20	17	64	0,75	160	*
R30-17-C01	2030 120 132 0		30	17	64	0,90	205	*
R40-17-C01	2040 120 119 0		40	17	64	1,15	260	*

Rated voltage: 230V AC/50Hz    Operating mode: S2 4 min    Degree of protection: IP44

\*C-plug connecting cables are available in various versions and lengths, and are to be ordered separately (cf. table on page 84)



**Single, group and central control possible (also via radio)**

**On-site operation possible** via a wired 1-way button

**Setting limit positions:** automatic detection with existing stops or fixed point limit position programming

**Intelligent installation management** allows for quick limit position corrections during installation

**Limit position status indicator:** the drive indicates the lack of a limit position by briefly stopping

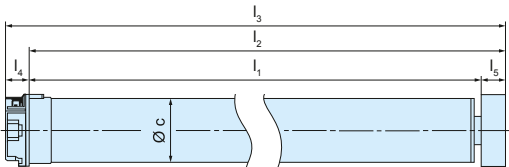
**Automatic limit position detection** when flexible suspension springs or rigid shaft connectors are used

**Automatic shading solution length adjustment:** the shading solution length is automatically detected and corrected by the drive



**Switch on the motor head** to change the direction of rotation and to activate and deactivate programming mode

Dimensions (in mm)	I <sub>1</sub>	I <sub>2</sub>	I <sub>3</sub>	I <sub>4</sub>	I <sub>5</sub>	Øc
P5-16-C01	421	461 <sup>1</sup>	474 <sup>1</sup>	13	40 <sup>1</sup>	35
P9-16-C01	451	491 <sup>1</sup>	504 <sup>1</sup>	13	40 <sup>1</sup>	35
R8-17-C01	471	511 <sup>1</sup>	528 <sup>1</sup>	17	40 <sup>1</sup>	45
R12-17-C01	471	511 <sup>1</sup>	528 <sup>1</sup>	17	40 <sup>1</sup>	45
R20-17-C01	500	540 <sup>1</sup>	557 <sup>1</sup>	17	40 <sup>1</sup>	45
R30-17-C01	524	564 <sup>1</sup>	581 <sup>1</sup>	17	40 <sup>1</sup>	45
R40-17-C01	539	579 <sup>1</sup>	596 <sup>1</sup>	17	40 <sup>1</sup>	45



<sup>1</sup> Drive adapter width of O-S60 (4930 200 222 0) page 197, selection of a different drive adapter will change dimensions I<sub>2</sub>, I<sub>3</sub> and I<sub>5</sub>





# Roller shutter drives with integrated radio receiver CentronicPLUS

P5-C01 PLUS ... P9-C01 PLUS

R8-C01 PLUS...R40-C01 PLUS

Suitable for use for:

- Roller shutters
- Insect protection

	<b>Blockage detection:</b> switches off in the event of obstructions (e.g. due to freezing) and torque increases		<b>Soft upper stop:</b> the application is optimally protected by the soft stopping
	<b>Sensitive obstacle detection in the DOWN direction:</b> for optimal protection of the application and the obstruction		<b>Fly screen protection function:</b> detects an open insect screen door and prevents damage to the system
	<b>Dynamic torque adjustment:</b> the drive continually and automatically adjusts the required torque in line with the particular application		<b>Memory function:</b> integrated timer can be activated via MemoryControl transmitter
	<b>Two intermediate positions can be programmed</b>		<b>Mesh technology</b> ensures the automatic networking of all devices to create a powerful network
	<b>Upper anti-freeze mechanism:</b> the drive stops shortly before reaching the upper stop limit position; this position is cyclically monitored and corrected		<b>Compatible with sun/wind/rain sensors</b> for maximum convenience
	<b>Automatic increase of the pressing force</b> when using rigid shaft connectors		<b>Option of wireless software update</b>

Technical data

	Item number with bracket	Item number without bracket	Torque (Nm)	Speed (rpm)	Limit switch range (revolutions)	Nominal current (A)	Power consumption (W)	Connecting cable (m)
<b>P5-16-C01 PLUS</b>	2009 120 116 0	2009 120 117 0	5	16	64	0,35	80	*
<b>P9-16-C01 PLUS</b>	2009 120 118 0	2009 120 119 0	9	16	64	0,45	110	*
<b>R8-17-C01 PLUS</b>	2010 120 158 0		8	17	64	0,45	100	*
<b>R12-17-C01 PLUS</b>	2010 120 159 0		12	17	64	0,5	110	*
<b>R20-17-C01 PLUS</b>	2020 120 128 0		20	17	64	0,7	160	*
<b>R30-17-C01 PLUS</b>	2030 120 128 0		30	17	64	0,9	210	*
<b>R40-17-C01 PLUS</b>	2040 120 117 0		40	17	64	1,15	260	*

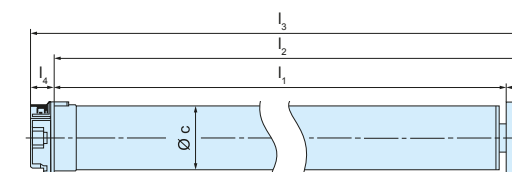
**Rated voltage:** 230V AC/50Hz **Operating mode:** S2 4 min **Degree of protection:** IP44

\*C-plug connecting cables are available in various versions and lengths, and are to be ordered separately (cf. table on page 84)



	<b>Supports parallel connection</b>		<b>Intelligent installation management</b> allows for quick limit position corrections during installation
	<b>Plug-in connecting cable,</b> available in a variety of lengths		<b>Limit position status indicator:</b> the drive indicates the lack of a limit position by briefly stopping
	<b>Integrated CentronicPlus radio transceiver:</b> bidirectional, 868.3 MHz, the drive reports back its position, any blockage and other status information		<b>Automatic limit position detection</b> when flexible suspension springs or rigid shaft connectors are used
	<b>Integrated Centronic radio receiver:</b> unidirectional, 868.3 MHz, compatible with the Centronic range of control units		<b>Automatic shading solution length adjustment:</b> the shading solution length is automatically detected and corrected by the drive
	<b>Single, group and central control possible (also via radio)</b>		<b>Convenient threshold adjustment via the hand-held transmitter</b>
	<b>On-site operation possible</b> via a wired 1-way button		<b>Switch on the motor head</b> to change the direction of rotation and to activate and deactivate programming mode
	<b>Setting limit positions:</b> automatic detection with existing stops or fixed point limit position programming		

Dimensions (in mm)	I <sub>1</sub>	I <sub>2</sub>	I <sub>3</sub>	I <sub>4</sub>	I <sub>5</sub>	Ø c
<b>P5-16-C01 PLUS</b>	423	463 <sup>1</sup>	475 <sup>1</sup>	12	40 <sup>1</sup>	35
<b>P9-16-C01 PLUS</b>	453	493 <sup>1</sup>	505 <sup>1</sup>	12	40 <sup>1</sup>	35
<b>R8-17-C01 PLUS</b>	471	511 <sup>2</sup>	528 <sup>2</sup>	17	40 <sup>2</sup>	45
<b>R12-17-C01 PLUS</b>	471	511 <sup>2</sup>	528 <sup>2</sup>	17	40 <sup>2</sup>	45
<b>R20-17-C01 PLUS</b>	500	540 <sup>2</sup>	557 <sup>2</sup>	17	40 <sup>2</sup>	45
<b>R30-17-C01 PLUS</b>	525	565 <sup>2</sup>	582 <sup>2</sup>	17	40 <sup>2</sup>	45
<b>R40-17-C01 PLUS</b>	540	580 <sup>2</sup>	596 <sup>2</sup>	17	40 <sup>2</sup>	45



<sup>1</sup> Drive adapter width of O-S40 (4930 200 250 0) page 197, selection of a different drive adapter will change dimensions I<sub>2</sub>, I<sub>3</sub> and I<sub>5</sub>

<sup>2</sup> Drive adapter width of O-S60 (4930 200 222 0) page 197, selection of a different drive adapter will change dimensions I<sub>2</sub>, I<sub>3</sub> and I<sub>5</sub>



**BECKER**





# Roller shutter drives with integrated radio receiver EnOcean

P5-N01 ... P9-N01  
R8-N01...R40-N01

Suitable for use for:  
■ Roller shutters

**Blockage detection:** switches off in the event of obstructions (e.g. due to freezing) and torque increases

**Sensitive obstacle detection in the DOWN direction** for optimal protection of the application and the obstruction

**Dynamic torque adjustment:** the drive continually and automatically adjusts the required torque in line with the particular application

**Two intermediate positions can be programmed**

**Upper anti-freeze mechanism:** the drive stops shortly before reaching the upper stop limit position; this position is cyclically monitored and corrected

**Programmable smoke detector:** when the smoke detector is triggered, the drive immediately opens the shading solution

**Automatic increase of the pressing force** when using rigid shaft connectors

**Soft upper stop:** the application is optimally protected by the soft stopping

**Fly screen protection function:** detects an open insect screen door and prevents damage to the system

**Automatic comfort ventilation function:** the drive moves automatically to intermediate position II when the window is tilted in connection with an EnOcean window handle

**Intelligent lock-out protection:** DOWN commands are blocked when the terrace door is open in connection with an EnOcean window handle

**Supports parallel connection**

**Plug-in connecting cable,** available in a variety of lengths

**Integrated EnOcean radio transceiver:** bidirectional, 868 MHz, the drive reports back its position, any blockage and other status information

Technical data	Item number with bracket	Item number without bracket	Torque (Nm)	Speed (rpm)	Limit switch range (revolutions)	Nominal current (A)	Power consumption (W)	Connecting cable (m)
P5-16-N01	2009 520 007 0	2009 520 005 0	5	16	64	0,35	80	*
P9-16-N01	2009 520 008 0	2009 520 006 0	9	16	64	0,45	110	*
R8-17-N01	2010 520 003 0		8	17	64	0,45	100	*
R12-17-N01	2010 520 004 0		12	17	64	0,5	110	*
R20-17-N01	2020 520 002 0		20	17	64	0,7	160	*
R30-17-N01	2030 520 002 0		30	17	64	0,9	210	*
R40-17-N01	2040 520 002 0		40	17	64	1,15	260	*

Rated voltage: 230V AC/50Hz    Operating mode: S2 4 min    Degree of protection: IP44

\* C-plug connecting cables are available in various versions and lengths, and are to be ordered separately (cf. table on page 84)



**Single, group and central control possible (also via radio)**

**On-site operation possible** via a wired 1-way button

**ReMan (remote management) and ReCom (remote commissioning):** allows for configuration via software tool and radio USB stick

**Repeater function**

**Setting limit positions:** automatic detection with existing stops or fixed point limit position programming

**Intelligent installation management** allows for quick limit position corrections during installation

**Limit position status indicator:** the drive indicates the lack of a limit position by briefly stopping

**Automatic limit position detection** when flexible suspension springs or rigid shaft connectors are used

**Option to deactivate the sensitive obstruction detection**

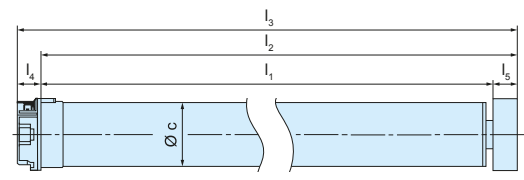
**Automatic shading solution length adjustment:** the shading solution length is automatically detected and corrected by the drive

**Switch on the motor head** to change the direction of rotation and to activate and deactivate programming mode

Supported EEPs

F6-02-01
F6-03-01
D2-05-02
F6-05-00
F6-10-00
D5-00-01
F6-05-02

Dimensions (in mm)	I <sub>1</sub>	I <sub>2</sub>	I <sub>3</sub>	I <sub>4</sub>	I <sub>5</sub>	Øc
P5-16-N01	423	463 <sup>1</sup>	476 <sup>1</sup>	13	40 <sup>1</sup>	35
P9-16-N01	453	493 <sup>1</sup>	506 <sup>1</sup>	13	40 <sup>1</sup>	35
R8-17-N01	471	511 <sup>2</sup>	528 <sup>2</sup>	17	40 <sup>2</sup>	45
R12-17-N01	471	511 <sup>2</sup>	528 <sup>2</sup>	17	40 <sup>2</sup>	45
R20-17-N01	500	540 <sup>2</sup>	557 <sup>2</sup>	17	40 <sup>2</sup>	45
R30-17-N01	524	564 <sup>2</sup>	581 <sup>2</sup>	17	40 <sup>2</sup>	45
R40-17-N01	540	580 <sup>2</sup>	596 <sup>2</sup>	17	40 <sup>2</sup>	45



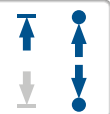
<sup>1</sup> Drive adapter width of O-S40 (4930 200 250 0) page 197, selection of a different drive adapter will change dimensions I<sub>2</sub>, I<sub>3</sub> and I<sub>5</sub>  
<sup>2</sup> Drive adapter width of O-S60 (4930 200 222 0) page 197, selection of a different drive adapter will change dimensions I<sub>2</sub>, I<sub>3</sub> and I<sub>5</sub>





# Sun protection drives with electronic limit switching

P5/20PS ... P9/16PS



**Setting limit positions:** automatic detection with existing upper stop and fixed point upper/lower limit position programming



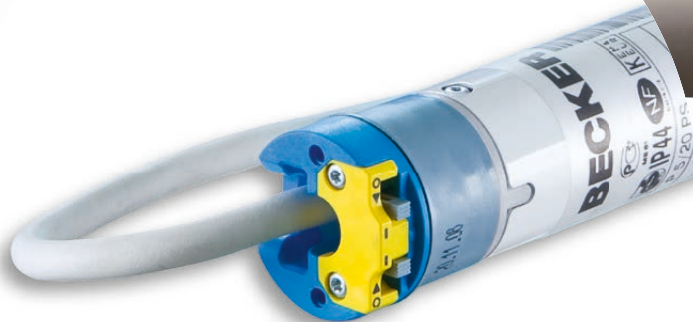
**Intelligent installation management** allows for quick limit position corrections during installation



**Setting of limit positions via switch on the drive head** without the need for a special programming unit



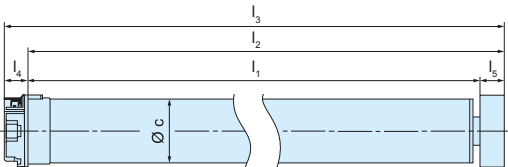
**Automatic shading solution length adjustment:** the shading solution length is automatically detected and corrected by the drive



Technical data	Item number	Torque (Nm)	Speed (rpm)	Limit switch range (revolutions)	Nominal current (A)	Power consumption (W)	Connecting cable (m)
P5/20PS	2009 030 106 0	5	20	64	0,47	115	3
P5/30PS	2009 030 105 0	5	30	64	0,47	115	3
P9/16PS	2009 030 107 0	9	16	64	0,47	110	3

Rated voltage: 230 V/AC /50Hz    Operating mode: S2 4 min    Degree of protection: IP44

Dimensions (in mm)	I <sub>1</sub>	I <sub>2</sub>	I <sub>3</sub>	I <sub>4</sub>	I <sub>5</sub>	Øc
P5/20PS	448	465	477	12	17	35
P5/30PS	448	465	477	12	17	35
P9/16PS	448	465	477	12	17	35



<sup>1</sup> Drive adapter width of 40x1 / 42x2 (4930 300 086 0) page 193, selection of a different drive adapter will change dimensions I<sub>2</sub>, I<sub>3</sub> and I<sub>5</sub>





# Sun protection drives with electronic limit switching

P5-E12 ... P9-E12

R8-E12 ... R50-E12

L50-E12 ... L120-E12

Suitable for use for:

- Open and semi-open articulated arm awnings
- Cassette awnings
- Drop-arm awnings
- Markisolettes
- Conservatory awnings
- Guided and unguided screens
- Horizontal screens
- Flounces
- Insect protection
- Inside screens
- Projection screen



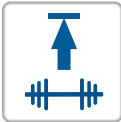
**Blockage detection with multiple testing**



**Fabric untensioning:** the drive protects the fabric by untensioning it in the upper stop limit position - function can be activated/deactivated



**Fabric tensioning function:** the drive tensions the fabric by moving to a freely adjustable reversing position - function can be activated/deactivated



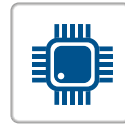
**Higher closing force for devices such as cassette awnings**



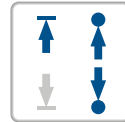
**Supports parallel connection**



**Plug-in connecting cable,** available in a variety of lengths



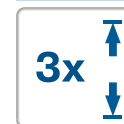
**Electronic limit switching**



**Setting limit positions:** automatic detection with existing upper stop and fixed point upper/lower limit position programming



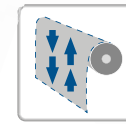
**Auto-install function:** the drive programs the limit positions automatically



**Intelligent installation management** allows for quick limit position corrections during installation



**Switchable stop behaviour**



**Limit position status indicator:** the drive indicates the lack of a limit position by briefly stopping



**Setting of limit positions via switch on the drive head** without the need for a special programming unit



**Automatic shading solution length adjustment:** the shading solution length is automatically detected and corrected by the drive

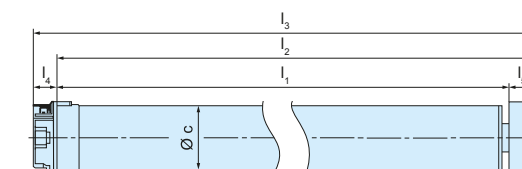
Technical data	Item number	Torque (Nm)	Speed (rpm)	Limit switch range (revolutions)	Nominal current (A)	Power consumption (W)	Connecting cable (m)
P5-20-E12	2009 130 109 0	5	20	64	0,45	110	*
P5-30-E12	2009 130 110 0	5	30	64	0,45	110	*
P9-16-E12	2009 130 111 0	9	16	64	0,45	110	*
R8-17-E12	2010 130 161 0	8	17	64	0,45	100	*
R12-17-E12	2010 130 162 0	12	17	64	0,5	110	*
R20-17-E12	2020 130 146 0	20	17	64	0,7	160	*
R30-17-E12	2030 130 151 0	30	17	64	0,9	210	*
R40-17-E12	2040 130 158 0	40	17	64	1,15	260	*
R50-11-E12	2050 130 165 0	50	11	64	1,05	240	*
L50-17-E12	2050 130 166 0	50	17	64	1,4	315	*
L60-11-E12	2060 130 116 0	60	11	64	1,2	265	*
L60-17-E12	2060 130 115 0	60	17	64	1,75	380	*
L70-17-E12	2070 130 114 0	70	17	64	1,9	430	*
L80-11-E12	2080 130 146 0	80	11	64	1,4	310	*
L120-11-E12	2120 130 115 0	120	11	64	1,9	435	*

**Rated voltage:** 230 V/AC/50Hz **Operating mode:** S2 4 min **Degree of protection:** IP44

\* C-plug connecting cables are available in various versions and lengths, and are to be ordered separately (cf. table on page 84)



Dimensions (in mm)	I <sub>1</sub>	I <sub>2</sub>	I <sub>3</sub>	I <sub>4</sub>	I <sub>5</sub>	Øc
P5-20-E12	451	468 <sup>1</sup>	481 <sup>1</sup>	13	17 <sup>1</sup>	35
P5-30-E12	451	468 <sup>1</sup>	481 <sup>1</sup>	13	17 <sup>1</sup>	35
P9-16-E12	451	468 <sup>1</sup>	481 <sup>1</sup>	13	17 <sup>1</sup>	35
R8-17-E12	471	511 <sup>2</sup>	528 <sup>2</sup>	17	40 <sup>2</sup>	45
R12-17-E12	471	511 <sup>2</sup>	528 <sup>2</sup>	17	40 <sup>2</sup>	45
R20-17-E12	500	540 <sup>2</sup>	557 <sup>2</sup>	17	40 <sup>2</sup>	45
R30-17-E12	524	564 <sup>2</sup>	581 <sup>2</sup>	17	40 <sup>2</sup>	45
R40-17-E12	539	579 <sup>2</sup>	596 <sup>2</sup>	17	40 <sup>2</sup>	45
R50-11-E12	553	593 <sup>2</sup>	610 <sup>2</sup>	17	40 <sup>2</sup>	45
L50-17-E12	535,5	565,5 <sup>3</sup>	585,5 <sup>3</sup>	20	30 <sup>3</sup>	58
L60-11-E12	515,5	545,5 <sup>3</sup>	565,5 <sup>3</sup>	20	30 <sup>3</sup>	58
L60-17-E12	565,5	595,5 <sup>3</sup>	615,5 <sup>3</sup>	20	30 <sup>3</sup>	58
L70-17-E12	565,5	595,5 <sup>3</sup>	615,5 <sup>3</sup>	20	30 <sup>3</sup>	58
L80-11-E12	535,5	565,5 <sup>3</sup>	585,5 <sup>3</sup>	20	30 <sup>3</sup>	58
L120-11-E12	565,5	595,5 <sup>3</sup>	615,5 <sup>3</sup>	20	30 <sup>3</sup>	58



<sup>1</sup> Drive adapter width of 40x1 / 42x2 (4930 300 086 0) page 193, selection of a different drive adapter will change dimensions I<sub>2</sub>, I<sub>3</sub> and I<sub>5</sub>

<sup>2</sup> Drive adapter width of DW78R+F (4930 300 091 0) page 191, selection of a different drive adapter will change dimensions I<sub>2</sub>, I<sub>3</sub> and I<sub>5</sub>

<sup>3</sup> Drive adapter width of DW78N (4931 300 365 0) page 191, selection of a different drive adapter will change dimensions I<sub>2</sub>, I<sub>3</sub> and I<sub>5</sub>



**BECKER**





# Sun protection drives with electronic limit switching

R8-E15 ... R40-E15

L50-E15 ... L120-E15

- Suitable for use for:
- Open and semi-open articulated arm awnings
  - Cassette awnings
  - Drop-arm awnings
  - Markisolettes
  - Conservatory awnings
  - Guided and unguided screens
  - Horizontal screens
  - Flounces
  - Insect protection
  - Inside screens
  - Projection screen

**Blockage detection:** switches off in the event of obstructions (e.g. due to freezing) and torque increases

**Supports parallel connection**

**Plug-in connecting cable,** available in a variety of lengths

**Electronic limit switching**

**Setting limit positions:** automatic detection with existing upper stop and fixed point upper/lower limit position programming

**Intelligent installation management** allows for quick limit position corrections during installation

**Switchable stop behaviour**

**Limit position status indicator:** the drive indicates the lack of a limit position by briefly stopping

**Automatic shading solution length adjustment:** the shading solution length is automatically detected and corrected by the drive

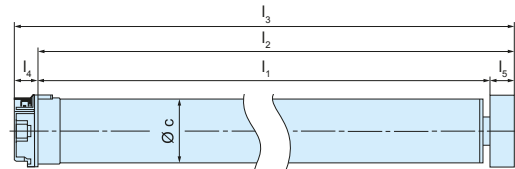
Technical data	Item number	Torque (Nm)	Speed (rpm)	Limit switch range (revolutions)	Nominal current (A)	Power consumption (W)	Connecting cable (m)
R8-17-E15	2010 130 165 0	8	17	64	0,45	100	*
R12-17-E15	2010 130 166 0	12	17	64	0,5	110	*
R20-17-E15	2020 130 148 0	20	17	64	0,75	160	*
R30-17-E15	2030 130 153 0	30	17	64	0,9	205	*
R40-17-E15	2040 130 160 0	40	17	64	1,15	230	*
R50-11-E15	2050 130 168 0	50	11	64	1,1	240	*
L50-17-E15	2050 130 169 0	50	17	64	1,4	315	*
L60-11-E15	2060 130 118 0	60	11	64	1,2	265	*
L60-17-E15	2060 130 117 0	60	11	64	1,75	380	*
L70-17-E15	2070 130 115 0	70	17	64	1,9	430	*
L80-11-E15	2080 130 147 0	80	11	64	1,4	310	*
L120-11-E15	2120 130 116 0	120	11	64	1,9	435	*

Rated voltage: 230 V/AC /50Hz    Operating mode: S2 4 min    Degree of protection: IP44

\* C-plug connecting cables are available in various versions and lengths, and are to be ordered separately (cf. table on page 84)



Dimensions (in mm)	I <sub>1</sub>	I <sub>2</sub>	I <sub>3</sub>	I <sub>4</sub>	I <sub>5</sub>	Øc
R8-17-E15	473	513 <sup>1</sup>	529 <sup>1</sup>	16	40 <sup>1</sup>	45
R12-17-E15	473	513 <sup>1</sup>	529 <sup>1</sup>	16	40 <sup>1</sup>	45
R20-17-E15	502	542 <sup>1</sup>	558 <sup>1</sup>	16	40 <sup>1</sup>	45
R30-17-E15	527	567 <sup>1</sup>	583 <sup>1</sup>	16	40 <sup>1</sup>	45
R40-17-E15	540	580 <sup>1</sup>	596 <sup>1</sup>	16	40 <sup>1</sup>	45
R50-11-E15	540	580 <sup>1</sup>	596 <sup>1</sup>	16	40 <sup>1</sup>	45
L50-17-E15	535	565 <sup>2</sup>	585 <sup>2</sup>	20	30 <sup>3</sup>	58
L60-11-E15	515	545 <sup>2</sup>	565 <sup>2</sup>	20	30 <sup>2</sup>	58
L60-17-E15	565	595 <sup>2</sup>	615 <sup>2</sup>	20	30 <sup>2</sup>	58
L70-17-E15	565	595 <sup>2</sup>	615 <sup>2</sup>	20	30 <sup>2</sup>	58
L80-11-E15	535	565 <sup>2</sup>	585 <sup>2</sup>	20	30 <sup>2</sup>	58
L120-11-E15	565	595 <sup>2</sup>	615 <sup>2</sup>	20	30 <sup>2</sup>	58



<sup>1</sup> Drive adapter width of DW78R+F (4930 300 091 0) page 191, selection of a different drive adapter will change dimensions I<sub>2</sub>, I<sub>3</sub> and I<sub>5</sub>  
<sup>2</sup> Drive adapter width of DW78N (4931 300 365 0) page 191, selection of a different drive adapter will change dimensions I<sub>2</sub>, I<sub>3</sub> and I<sub>5</sub>





# Sun protection drives for emergency manual operation with electronic limit switching

R20-E33 ... R40-E33

- Suitable for use for:
- Open and semi-open articulated arm awnings
  - Cassette awnings

**Blockage detection with multiple testing**

**Fabric untensioning:** the drive protects the fabric by untensioning it in the upper stop limit position - function can be activated/deactivated

**Fabric tensioning function:** the drive tensions the fabric by moving to a freely adjustable reversing position - function can be activated/deactivated

**Higher closing force** for devices such as cassette awnings

**Supports parallel connection**

**Plug-in connecting cable,** available in a variety of lengths

**Electronic limit switching**

**Setting limit positions:** automatic detection with existing upper stop and fixed point lower limit position programming

Technical data	Item number	Torque (Nm)	Speed (rpm)	Limit switch range (revolutions)	Nominal current (A)	Power consumption (W)	Connecting cable (m)
R20-17-E33	2020 130 184 0	20	17	64	0,70	160	*
R30-17-E33	2030 130 187 0	30	17	64	0,90	210	*
R40-17-E33	2040 130 190 0	40	17	64	1,15	260	*

Rated voltage: 230 V/AC /50Hz    Operating mode: S2 4 min    Degree of protection: IP44

\* C-plug connecting cables are available in various versions and lengths, and are to be ordered separately (cf. table on page 84)



**Auto-install function:** the drive programs the limit positions automatically

**Intelligent installation management** allows for quick limit position corrections during installation

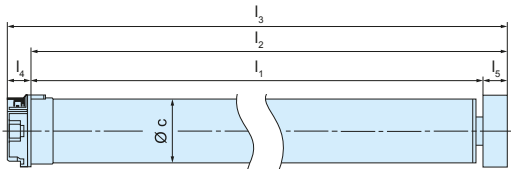
**Switchable stop behaviour**

**Limit position status indicator:** the drive indicates the lack of a limit position by briefly stopping

**Setting of limit positions via switch on the drive head** without the need for a special programming unit

**Automatic shading solution length adjustment:** the shading solution length is automatically detected and corrected by the drive

Dimensions (in mm)	I <sub>1</sub>	I <sub>2</sub>	I <sub>3</sub>	I <sub>4</sub>	I <sub>5</sub>	Øc
R20-17-E33	500	517 <sup>1</sup>	534 <sup>1</sup>	17	17 <sup>1</sup>	45
R30-17-E33	529	546 <sup>1</sup>	563 <sup>1</sup>	17	17 <sup>1</sup>	45
R40-17-E33	540	556 <sup>1</sup>	574 <sup>1</sup>	17	17 <sup>1</sup>	45



<sup>1</sup> Drive adapter width of DW78R+F (4930 300 091 0) page 191, selection of a different drive adapter will change dimensions I<sub>2</sub>, I<sub>3</sub> and I<sub>5</sub>





# Sun protection drives for locking systems with electronic limit switching

R8-E16 ... R40-E16  
L50-E16 ... L120-E16

Suitable for use for:  
■ Locking systems

**Blockage detection:** switches off in the event of obstructions (e.g. due to freezing) and torque increases

**Fabric untensioning:** the drive protects the fabric by untensioning it in the upper stop limit position - function can be activated/deactivated

**Fabric tensioning function:** the drive tensions the fabric by moving to a freely adjustable reversing position - function can be activated/deactivated

**Supports parallel connection**

**Plug-in connecting cable,** available in a variety of lengths

**Electronic limit switching**

Technical data	Item number	Torque (Nm)	Speed (rpm)	Limit switch range (revolutions)	Nominal current (A)	Power consumption (W)	Connecting cable (m)
R8-17-E16	2010 130 177 0	8	17	64	0,45	100	*
R12-17-E16	2010 130 178 0	12	17	64	0,50	110	*
R20-17-E16	2020 130 157 0	20	17	64	0,70	160	*
R30-17-E16	2030 130 162 0	30	17	64	0,90	210	*
R40-17-E16	2040 130 168 0	40	17	64	1,15	260	*
L50-17-E16	2050 130 182 0	50	17	64	1,4	315	*
L70-17-E16	2070 130 117 0	70	17	64	1,9	430	*
L80-11-E16	2080 130 155 0	80	11	64	1,4	310	*
L100-11-E16	2100 130 102 0	100	11	64	1,56	354	*
L120-11-E16	2120 130 120 0	120	11	64	1,9	435	*

Rated voltage: 230 V/AC /50Hz    Operating mode: S2 4 min    Degree of protection: IP44

\* C-plug connecting cables are available in various versions and lengths, and are to be ordered separately (cf. table on page 84)



**For locking systems:** the drive locks and unlocks automatically in the lower limit position

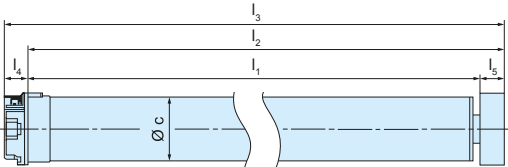
**Setting limit positions:** automatic detection with existing upper stop and fixed point lower limit position programming

**Intelligent installation management** allows for quick limit position corrections during installation

**Limit position status indicator:** the drive indicates the lack of a limit position by briefly stopping

**Automatic shading solution length adjustment:** the shading solution length is automatically detected and corrected by the drive

Dimensions (in mm)	I <sub>1</sub>	I <sub>2</sub>	I <sub>3</sub>	I <sub>4</sub>	I <sub>5</sub>	Øc
R8-17-E16	471	511 <sup>1</sup>	528 <sup>1</sup>	17	40 <sup>1</sup>	45
R12-17-E16	471	511 <sup>1</sup>	528 <sup>1</sup>	17	40 <sup>1</sup>	45
R20-17-E16	500	540 <sup>1</sup>	557 <sup>1</sup>	17	40 <sup>1</sup>	45
R30-17-E16	524	564 <sup>1</sup>	591 <sup>1</sup>	17	40 <sup>1</sup>	45
R40-17-E16	539	579 <sup>1</sup>	596 <sup>1</sup>	17	40 <sup>1</sup>	45
L50-17-E16	535,5	565,5 <sup>1</sup>	585,5 <sup>1</sup>	20	30 <sup>1</sup>	58
L70-17-E16	565,5	595,5 <sup>1</sup>	615,5 <sup>1</sup>	20	30 <sup>1</sup>	58
L80-11-E16	535,5	565,5 <sup>1</sup>	585,5 <sup>1</sup>	20	30 <sup>1</sup>	58
L100-11-E16	565,5	595,5 <sup>1</sup>	615,5 <sup>1</sup>	20	30 <sup>1</sup>	58
L120-11-E16	565,5	595,5 <sup>1</sup>	615,5 <sup>1</sup>	20	30 <sup>1</sup>	58



<sup>1</sup> Drive adapter width of DW78R+F (4930 300 091 0) page 191, selection of a different drive adapter will change dimensions I<sub>2</sub>, I<sub>3</sub> and I<sub>5</sub>





# SMI sun protection drive with electronic limit switching

P3-S12 ... P9-S12

R8-S12 ... R50-S12

L50-S12 ... L120-S12

- Suitable for use for:
- Open and semi-open articulated-arm awnings
  - Cassette awnings
  - Drop-arm awnings
  - Markisolettes
  - Conservatory awnings
  - Guided and unguided screens
  - Horizontal screens
  - Flouncies
  - Insect protection
  - Inside screens
  - Projection screen



**Blockage detection with multiple testing**



**Fabric untensioning:** the drive protects the fabric by untensioning it in the upper stop limit position - function can be activated/deactivated



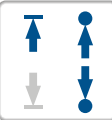
**Fabric tensioning function:** the drive tensions the fabric by moving to a freely adjustable reversing position - function can be activated/deactivated



**Supports parallel connection**



**Plug-in connecting cable,** available in a variety of lengths



**Setting limit positions:** automatic detection with existing upper stop and fixed point upper/lower limit position programming

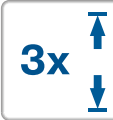
Technical data	Item number	Torque (Nm)	Speed (rpm)	Limit switch range (revolutions)	Nominal current (A)	Power consumption (W)	Connecting cable (m)
P3-30-S12	2009 130 505 0	3	30	64	0,35	80	*
P5-20-S12	2009 130 506 0	5	20	64	0,45	110	*
P5-30-S12	2009 130 507 0	5	30	64	0,45	110	*
P9-16-S12	2009 130 508 0	9	16	64	0,45	110	*
R8-17-S12	2010 130 505 0	8	17	64	0,45	100	*
R12-17-S12	2010 130 506 0	12	17	64	0,5	110	*
R20-17-S12	2020 130 503 0	20	17	64	0,7	160	*
R30-17-S12	2030 130 503 0	30	17	64	0,9	210	*
R40-17-S12	2040 130 503 0	40	17	64	1,15	260	*
R50-11-S12	2050 130 505 0	50	11	64	1,05	240	*
L50-17-S12	2050 130 506 0	50	17	64	1,4	315	*
L60-11-S12	2060 130 504 0	60	11	64	1,2	265	*
L60-17-S12	2060 130 503 0	60	17	64	1,75	380	*
L70-17-S12	2070 130 503 0	70	17	64	1,9	430	*
L80-11-S12	2080 130 506 0	80	11	64	1,4	310	*
L120-11-S12	2120 130 503 0	120	11	64	1,9	435	*

Rated voltage: 230 V/AC / 50Hz    Operating mode: S2 4 min    Degree of protection: IP44

\* C-plug connecting cables are available in various versions and lengths, and are to be ordered separately (cf. table on page 84)



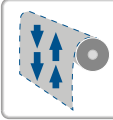
**Auto-install function:** the drive programs the limit positions automatically



**Intelligent installation management** allows for quick limit position corrections during installation



**Switchable stop behaviour**



**Limit position status indicator:** the drive indicates the lack of a limit position by briefly stopping

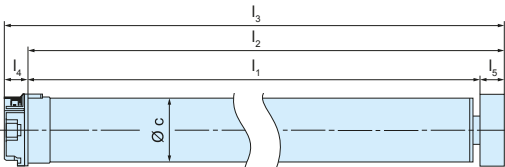


**Automatic shading solution length adjustment:** the shading solution length is automatically detected and corrected by the drive



**Switch on the motor head** to change the direction of rotation

Dimensions (in mm)	I <sub>1</sub>	I <sub>2</sub>	I <sub>3</sub>	I <sub>4</sub>	I <sub>5</sub>	Øc
P3-30-S12	423	440 <sup>1</sup>	453 <sup>1</sup>	13	17 <sup>1</sup>	35
P5-20-S12	453	470 <sup>1</sup>	483 <sup>1</sup>	13	17 <sup>1</sup>	35
P5-30-S12	453	470 <sup>1</sup>	483 <sup>1</sup>	13	17 <sup>1</sup>	35
P9-16-S12	453	470 <sup>1</sup>	483 <sup>1</sup>	13	17 <sup>1</sup>	35
R8-17-S12	471	511 <sup>2</sup>	528 <sup>2</sup>	17	40 <sup>2</sup>	45
R12-17-S12	471	511 <sup>2</sup>	528 <sup>2</sup>	17	40 <sup>2</sup>	45
R20-17-S12	514	531 <sup>2</sup>	548 <sup>2</sup>	17	17 <sup>2</sup>	45
R30-17-S12	542	559 <sup>2</sup>	576 <sup>2</sup>	17	17 <sup>2</sup>	45
R40-17-S12	553	570 <sup>2</sup>	587 <sup>2</sup>	17	17 <sup>2</sup>	45
R50-11-S12	553	570 <sup>2</sup>	587 <sup>2</sup>	17	17 <sup>2</sup>	45
L50-14-S12	535	565 <sup>3</sup>	585 <sup>3</sup>	20	30 <sup>3</sup>	58
L60-11-S12	515	545 <sup>3</sup>	565 <sup>3</sup>	20	30 <sup>3</sup>	58
L60-17-S12	565	595 <sup>3</sup>	615 <sup>3</sup>	20	30 <sup>3</sup>	58
L70-17-S12	565	595 <sup>3</sup>	615 <sup>3</sup>	20	30 <sup>3</sup>	58
L80-11-S12	535	565 <sup>3</sup>	585 <sup>3</sup>	20	30 <sup>3</sup>	58
L120-11-S12	565	595 <sup>3</sup>	615 <sup>3</sup>	20	30 <sup>3</sup>	58



<sup>1</sup> Drive adapter width of 40x1 / 42x2 (4930 300 086 0) page 193, selection of a different drive adapter will change dimensions I<sub>2</sub>, I<sub>3</sub> and I<sub>5</sub>

<sup>2</sup> Drive adapter width of DW78R+F (4930 300 091 0) page 191, selection of a different drive adapter will change dimensions I<sub>2</sub>, I<sub>3</sub> and I<sub>5</sub>

<sup>3</sup> Drive adapter width of DW78N (4931 300 365 0) page 191, selection of a different drive adapter will change dimensions I<sub>2</sub>, I<sub>3</sub> and I<sub>5</sub>





# “ZIP/Fixed Screens” sun protection drives with electronic limit switching

P5-E18 ... P9-E18

R8-E18 ... R50-E18

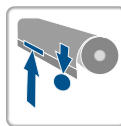
Suitable for use for:  
■ ZIP screens



**Blockage detection with multiple testing**



**Sensitive obstacle detection with multiple testing**



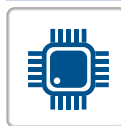
**Fabric untensioning:** the drive protects the fabric by untensioning it in the upper stop limit position - function can be activated/deactivated



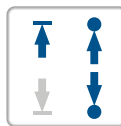
**Supports parallel connection**



**Plug-in connecting cable,** available in a variety of lengths



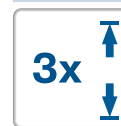
**Electronic limit switching**



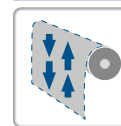
**Setting limit positions:** automatic detection with existing upper stop and fixed point upper/lower limit position programming



**Auto-install function:** the drive programs the limit positions automatically



**Intelligent installation management** allows for quick limit position corrections during installation



**Limit position status indicator:** the drive indicates the lack of a limit position by briefly stopping



**Setting of limit positions via switch on the drive head** without the need for a special programming unit



**Automatic shading solution length adjustment:** the shading solution length is automatically detected and corrected by the drive

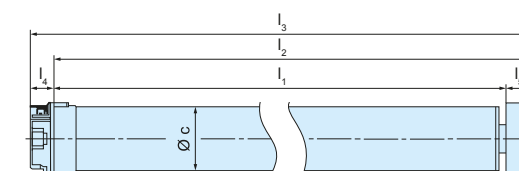


Technical data	Item number	Torque (Nm)	Speed (rpm)	Limit switch range (revolutions)	Nominal current (A)	Power consumption (W)	Connecting cable (m)
P5-16-E18	2009 130 113 0	5	16	64	0,35	80	*
P5-20-E18	2009 130 106 0	5	20	64	0,45	110	*
P5-30-E18	2009 130 107 0	5	30	64	0,45	110	*
P9-16-E18	2009 130 108 0	9	16	64	0,45	110	*
R8-17-E18	2010 130 159 0	8	17	64	0,45	100	*
R12-17-E18	2010 130 160 0	12	17	64	0,5	110	*
R20-17-E18	2020 130 145 0	20	17	64	0,7	160	*
R30-17-E18	2030 130 150 0	30	17	64	0,9	210	*
R40-17-E18	2040 130 157 0	40	17	64	1,15	260	*
R50-11-E18	2050 130 202 0	50	11	64	1,05	240	*

**Rated voltage:** 230 V/AC/50Hz **Operating mode:** S2 4 min **Degree of protection:** IP44

\* C-plug connecting cables are available in various versions and lengths, and are to be ordered separately (cf. table on page 84)

Dimensions (in mm)	I <sub>1</sub>	I <sub>2</sub>	I <sub>3</sub>	I <sub>4</sub>	I <sub>5</sub>	Øc
P5-16-E18	404			13	40 <sup>1</sup>	35
P5-20-E18	451	491 <sup>1</sup>	504 <sup>1</sup>	13	40 <sup>1</sup>	35
P5-30-E18	451	491 <sup>1</sup>	504 <sup>1</sup>	13	40 <sup>1</sup>	35
P9-16-E18	451	491 <sup>1</sup>	504 <sup>1</sup>	13	40 <sup>1</sup>	35
R8-17-E18	471	511 <sup>2</sup>	528 <sup>2</sup>	17	40 <sup>2</sup>	45
R12-17-E18	471	511 <sup>2</sup>	528 <sup>2</sup>	17	40 <sup>2</sup>	45
R20-17-E18	500	540 <sup>2</sup>	557 <sup>2</sup>	17	40 <sup>2</sup>	45
R30-17-E18	529	569 <sup>2</sup>	586 <sup>2</sup>	17	40 <sup>2</sup>	45
R40-17-E18	539,5	579,5 <sup>2</sup>	596,5 <sup>2</sup>	17	40 <sup>2</sup>	45
R50-11-E18	539,5	579,5 <sup>2</sup>	596,5 <sup>2</sup>	17	40 <sup>2</sup>	45



<sup>1</sup> Drive adapter width of O-40x1,3/1,5 (4930 200 246 0) page 197, selection of a different drive adapter will change dimensions I<sub>2</sub>, I<sub>3</sub> and I<sub>5</sub>

<sup>2</sup> Drive adapter width of O-DW78R+F (4930 200 274 0) page 198, selection of a different drive adapter will change dimensions I<sub>2</sub>, I<sub>3</sub> and I<sub>5</sub>



**BECKER**





# “ZIP” SMI sun protection drive with electronic limit switching

P5-S18 ... P9-S18

R8-S18 ... R40-S18

Suitable for use for:  
■ ZIP screens



**Blockage detection with multiple testing**



**Sensitive obstacle detection with multiple testing**



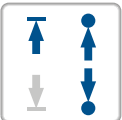
**Fabric untensioning:** the drive protects the fabric by untensioning it in the upper stop limit position - function can be activated/deactivated



**Supports parallel connection**



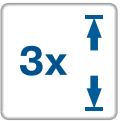
**Plug-in connecting cable,** available in a variety of lengths



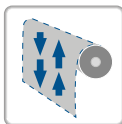
**Setting limit positions:** automatic detection with existing upper stop and fixed point upper/lower limit position programming



**Auto-install function:** the drive programs the limit positions automatically



**Intelligent installation management** allows for quick limit position corrections during installation



**Limit position status indicator:** the drive indicates the lack of a limit position by briefly stopping



**Automatic shading solution length adjustment:** the shading solution length is automatically detected and corrected by the drive



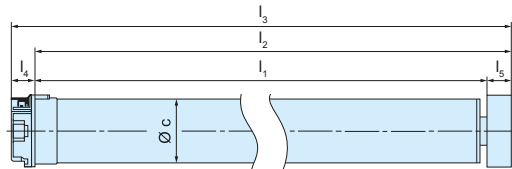
**Switch on the motor head** to change the direction of rotation



Technical data	Item number	Torque (Nm)	Speed (rpm)	Limit switch range (revolutions)	Nominal current (A)	Power consumption (W)	Connecting cable (m)
P5-16-S18	2009 130 512 0	5	16	64	0,35	80	*
P5-20-S18	2009 130 509 0	5	20	64	0,45	110	*
P5-30-S18	2009 130 510 0	5	30	64	0,45	110	*
P9-16-S18	2009 130 511 0	9	16	64	0,45	110	*
R8-17-S18	2010 130 507 0	8	17	64	0,45	100	*
R12-17-S18	2010 130 508 0	12	17	64	0,50	110	*
R20-17-S18	2020 130 504 0	20	17	64	0,75	160	*
R30-17-S18	2030 130 504 0	30	17	64	0,90	205	*
R40-17-S18	2040 130 504 0	40	17	64	1,15	260	*

Rated voltage: 230 V/AC /50Hz    Operating mode: S2 4 min    Degree of protection: IP44

Dimensions (in mm)	I <sub>1</sub>	I <sub>2</sub>	I <sub>3</sub>	I <sub>4</sub>	I <sub>5</sub>	Øc
P5-16-S18	423	440 <sup>1</sup>	453 <sup>1</sup>	13	17 <sup>1</sup>	35
P5-20-S18	453	470 <sup>1</sup>	483 <sup>1</sup>	13	17 <sup>1</sup>	35
P5-30-S18	453	470 <sup>1</sup>	483 <sup>1</sup>	13	17 <sup>1</sup>	35
P9-16-S18	453	470 <sup>1</sup>	483 <sup>1</sup>	13	17 <sup>1</sup>	35
R8-17-S18	471	511 <sup>2</sup>	528 <sup>2</sup>	17	40 <sup>2</sup>	45
R12-17-S18	471	511 <sup>2</sup>	528 <sup>2</sup>	17	40 <sup>2</sup>	45
R20-17-S18	500	540 <sup>2</sup>	557 <sup>2</sup>	17	40 <sup>2</sup>	45
R30-17-S18	524	564 <sup>2</sup>	581 <sup>2</sup>	17	40 <sup>2</sup>	45
R40-17-S18	539	579 <sup>2</sup>	596 <sup>2</sup>	17	40 <sup>2</sup>	45



<sup>1</sup> Drive adapter width of O-S40 (4930 200 246 0) page 197, selection of a different drive adapter will change dimensions I<sub>2</sub>, I<sub>3</sub> and I<sub>5</sub>  
<sup>2</sup> Drive adapter width of O-63N (4930 200 276 0) page 198, selection of a different drive adapter will change dimensions I<sub>2</sub>, I<sub>3</sub> and I<sub>5</sub>

\* C-plug connecting cables are available in various versions and lengths, and are to be ordered separately (cf. table on page 84)





# Universal sun protection drives with integrated radio receiver

P5-C12 ... P9-C12

R8-C12 ... R50-C12

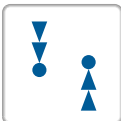
L50-C12 ... L120-C12

Suitable for use for:

- Open and semi-open articulated-arm awnings
- Cassette awnings
- Drop-arm awnings
- Markisolettes
- Conservatory awnings
- Guided and unguided screens
- Horizontal screens
- Flounces
- Insect protection
- Inside screens
- Projection screen



**Blockage detection with multiple testing**



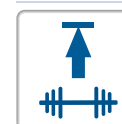
**Two intermediate positions can be programmed**



**Fabric untensioning:** the drive protects the fabric by untensioning it in the upper stop limit position - function can be activated/deactivated



**Fabric tensioning function:** the drive tensions the fabric by moving to a freely adjustable reversing position - function can be activated/deactivated



**Higher closing force for devices such as cassette awnings**



**Compatible with sun/wind/rain sensors** for maximum convenience



**Supports parallel connection**



**Plug-in connecting cable,** available in a variety of lengths

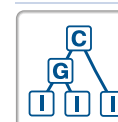
Technical data	Item number	Torque (Nm)	Speed (rpm)	Limit switch range (revolutions)	Nominal current (A)	Power consumption (W)	Connecting cable (m)
P5-20-C12	2009 130 117 0	5	20	64	0,45	110	*
P5-30-C12	2009 130 118 0	5	30	64	0,45	110	*
P9-16-C12	2009 130 119 0	9	16	64	0,45	110	*
R8-17-C12	2010 130 167 0	8	17	64	0,45	100	*
R12-17-C12	2010 130 168 0	12	17	64	0,5	110	*
R20-17-C12	2020 130 149 0	20	17	64	0,7	160	*
R30-17-C12	2030 130 156 0	30	17	64	0,9	210	*
R40-17-C12	2040 130 162 0	40	17	64	1,15	260	*
R50-11-C12	2050 130 172 0	50	11	64	1,05	240	*
L50-17-C12	2050 130 173 0	50	17	64	1,4	315	*
L60-11-C12	2060 130 119 0	60	11	64	1,2	265	*
L60-17-C12	2060 130 120 0	60	17	64	1,75	380	*
L70-17-C12	2070 130 116 0	70	17	64	1,9	430	*
L80-11-C12	2080 130 150 0	80	11	64	1,4	310	*
L120-11-C12	2120 130 117 0	120	11	64	1,9	435	*

**Rated voltage:** 230 V/AC/50Hz **Operating mode:** S2 4 min **Degree of protection:** IP44

\*C-plug connecting cables are available in various versions and lengths, and are to be ordered separately (cf. table on page 84)



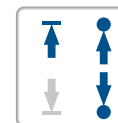
**Integrated Centronic radio receiver:** unidirectional, 868.3 MHz, compatible with the Centronic range of control units



**Single, group and central control possible (also via radio)**



**On-site operation possible** via a wired 1-way button



**Setting limit positions:** automatic detection with existing upper stop and fixed point upper/lower limit position programming



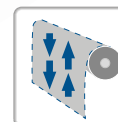
**Auto-install function:** the drive programs the limit positions automatically



**Intelligent installation management** allows for quick limit position corrections during installation



**Switchable stop behaviour**



**Limit position status indicator:** the drive indicates the lack of a limit position by briefly stopping



**Automatic shading solution length adjustment:** the shading solution length is automatically detected and corrected by the drive

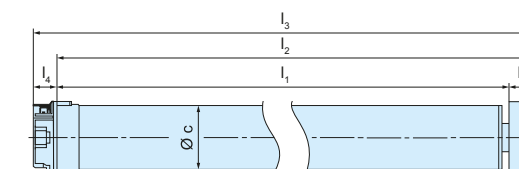


**Convenient threshold adjustment via the hand-held transmitter**



**Switch on the motor head** to change the direction of rotation and to activate and deactivate programming mode

Dimensions (in mm)	I <sub>1</sub>	I <sub>2</sub>	I <sub>3</sub>	I <sub>4</sub>	I <sub>5</sub>	Øc
P5-20-C12	453	470 <sup>1</sup>	483 <sup>1</sup>	13	17 <sup>1</sup>	35
P5-30-C12	453	470 <sup>1</sup>	483 <sup>1</sup>	13	17 <sup>1</sup>	35
P9-16-C12	453	470 <sup>1</sup>	483 <sup>1</sup>	13	17 <sup>1</sup>	35
R8-17-C12	471	511 <sup>2</sup>	528 <sup>2</sup>	17	40 <sup>2</sup>	45
R12-17-C12	471	511 <sup>2</sup>	528 <sup>2</sup>	17	40 <sup>2</sup>	45
R20-17-C12	500	540 <sup>2</sup>	557 <sup>2</sup>	17	40 <sup>2</sup>	45
R30-17-C12	524	564 <sup>2</sup>	581 <sup>2</sup>	17	40 <sup>2</sup>	45
R40-17-C12	539	579 <sup>2</sup>	596 <sup>2</sup>	17	40 <sup>2</sup>	45
R50-11-C12	553	570 <sup>2</sup>	587 <sup>2</sup>	17	40 <sup>2</sup>	45
L50-17-C12	535,5	565,5 <sup>3</sup>	585,5 <sup>3</sup>	20	30 <sup>3</sup>	58
L60-11-C12	515,5	545,5 <sup>3</sup>	565,5 <sup>3</sup>	20	30 <sup>3</sup>	58
L60-17-C12	565,5	595,5 <sup>3</sup>	615,5 <sup>3</sup>	20	30 <sup>3</sup>	58
L70-17-C12	565,5	595,5 <sup>3</sup>	615,5 <sup>3</sup>	20	30 <sup>3</sup>	58
L80-11-C12	535,5	565,5 <sup>3</sup>	585,5 <sup>3</sup>	20	30 <sup>3</sup>	58
L120-11-C12	565,5	595,5 <sup>3</sup>	615,5 <sup>3</sup>	20	30 <sup>3</sup>	58



<sup>1</sup> Drive adapter width of 40x1 / 42x2 (4930 300 086 0) page 193, selection of a different drive adapter will change dimensions I<sub>2</sub>, I<sub>3</sub> and I<sub>5</sub>

<sup>2</sup> Drive adapter width of DW78 R+F (4930 300 091 0) page 191, selection of a different drive adapter will change dimensions I<sub>2</sub>, I<sub>3</sub> and I<sub>5</sub>

<sup>3</sup> Drive adapter width of DW78N (4931 300 365 0) page 191, selection of a different drive adapter will change dimensions I<sub>2</sub>, I<sub>3</sub> and I<sub>5</sub>



**BECKER**





# Universal sun protection drives with integrated radio receiver

**P5-C12 PLUS ... P9-C12 PLUS**

**R8-C12 PLUS ... R50-C12 PLUS**

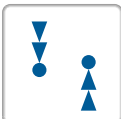
**L50-C12 PLUS ... L120-C12 PLUS**

Suitable for use for:

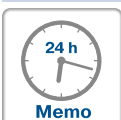
- Open and semi-open articulated-arm awnings
- Cassette awnings
- Drop-arm awnings
- Markisolettes
- Conservatory awnings
- Guided and unguided screens
- Horizontal screens
- Flounces
- Insect protection
- Inside screens
- Projection screen



**Blockage detection with multiple testing**



**Two intermediate positions can be programmed**



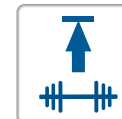
**Memory function:** integrated timer can be activated via MemoryControl transmitter



**Fabric untensioning:** the drive protects the fabric by untensioning it in the upper stop limit position - function can be activated/deactivated



**Fabric tensioning function:** the drive tensions the fabric by moving to a freely adjustable reversing position - function can be activated/deactivated



**Higher closing force for devices such as cassette awnings**



**Mesh technology** ensures the automatic networking of all devices to create a powerful network



**Compatible with sun/wind/rain sensors** for maximum convenience



**Option of wireless software update**



**Supports parallel connection**



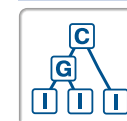
**Plug-in connecting cable,** available in a variety of lengths



**Integrated CentronicPlus radio transceiver:** bidirectional, 868.3 MHz, the drive reports back its position, any blockage and other status information



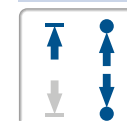
**Integrated Centronic radio receiver:** unidirectional, 868.3 MHz, compatible with the Centronic range of control units



**Single, group and central control possible (also via radio)**



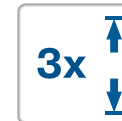
**On-site operation possible** via a wired 1-way button



**Setting limit positions:** automatic detection with existing upper stop and fixed point upper/lower limit position programming



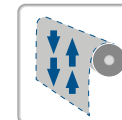
**Auto-install function:** the drive programs the limit positions automatically



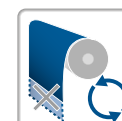
**Intelligent installation management** allows for quick limit position corrections during installation



**Switchable stop behaviour**



**Limit position status indicator:** the drive indicates the lack of a limit position by briefly stopping



**Automatic shading solution length adjustment:** the shading solution length is automatically detected and corrected by the drive



**Convenient threshold adjustment via the hand-held transmitter**



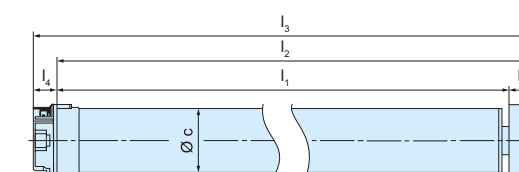
**Switch on the motor head** to change the direction of rotation and to activate and deactivate programming mode

Technical data	Item number	Torque (Nm)	Speed (rpm)	Limit switch range (revolutions)	Nominal current (A)	Power consumption (W)	Connecting cable (m)
<b>P5-20-C12 PLUS</b>	2009 130 137 0	5	20	64	0,45	110	*
<b>P5-30-C12 PLUS</b>	2009 130 138 0	5	30	64	0,45	110	*
<b>P9-16-C12 PLUS</b>	2009 130 139 0	9	16	64	0,45	110	*
<b>R8-17-C12 PLUS</b>	2010 130 193 0	8	17	64	0,45	100	*
<b>R12-17-C12 PLUS</b>	2010 130 194 0	12	17	64	0,50	110	*
<b>R20-17-C12 PLUS</b>	2020 130 165 0	20	17	64	0,70	160	*
<b>R30-17-C12 PLUS</b>	2030 130 170 0	30	17	64	0,90	210	*
<b>R40-17-C12 PLUS</b>	2040 130 177 0	40	17	64	1,15	260	*
<b>R50-11-C12 PLUS</b>	2050 130 192 0	50	11	64	1,05	240	*
<b>L50-17-C12 PLUS</b>	2050 130 193 0	50	17	64	1,40	315	*
<b>L60-11-C12 PLUS</b>	2060 130 132 0	60	11	64	1,20	265	*
<b>L60-17-C12 PLUS</b>	2060 130 133 0	60	17	64	1,75	380	*
<b>L70-17-C12 PLUS</b>	2070 130 125 0	70	17	64	1,90	430	*
<b>L80-11-C12 PLUS</b>	2080 130 166 0	80	11	64	1,40	310	*
<b>L120-11-C12 PLUS</b>	2120 130 126 0	120	11	64	1,90	435	*

**Rated voltage:** 230 V/AC/50Hz **Operating mode:** S2 4 min **Degree of protection:** IP44

\*C-plug connecting cables are available in various versions and lengths, and are to be ordered separately (cf. table on page 84)

Dimensions (in mm)	I <sub>1</sub>	I <sub>2</sub>	I <sub>3</sub>	I <sub>4</sub>	I <sub>5</sub>	Ø c
<b>P5-20-C12 PLUS</b>	453	470 <sup>1</sup>	482 <sup>1</sup>	12	17 <sup>1</sup>	35
<b>P5-30-C12 PLUS</b>	453	470 <sup>1</sup>	482 <sup>1</sup>	12	17 <sup>1</sup>	35
<b>P9-16-C12 PLUS</b>	453	470 <sup>1</sup>	482 <sup>1</sup>	12	17 <sup>1</sup>	35
<b>R8-17-C12 PLUS</b>	471	488 <sup>2</sup>	505 <sup>2</sup>	17	17 <sup>2</sup>	45
<b>R12-17-C12 PLUS</b>	471	488 <sup>2</sup>	505 <sup>2</sup>	17	17 <sup>2</sup>	45
<b>R20-17-C12 PLUS</b>	500	517 <sup>2</sup>	534 <sup>2</sup>	17	17 <sup>2</sup>	45
<b>R30-17-C12 PLUS</b>	525	542 <sup>2</sup>	559 <sup>2</sup>	17	17 <sup>2</sup>	45
<b>R40-17-C12 PLUS</b>	540	556 <sup>2</sup>	574 <sup>2</sup>	17	17 <sup>2</sup>	45
<b>R50-11-C12 PLUS</b>	540	556 <sup>2</sup>	574 <sup>2</sup>	17	17 <sup>2</sup>	45
<b>L50-17-C12 PLUS</b>	534	564 <sup>3</sup>	584 <sup>3</sup>	20	30 <sup>3</sup>	58
<b>L60-11-C12 PLUS</b>	514	544 <sup>3</sup>	564 <sup>3</sup>	20	30 <sup>3</sup>	58
<b>L60-17-C12 PLUS</b>	564	594 <sup>3</sup>	614 <sup>3</sup>	20	30 <sup>3</sup>	58
<b>L70-17-C12 PLUS</b>	564	594 <sup>3</sup>	614 <sup>3</sup>	20	30 <sup>3</sup>	58
<b>L80-11-C12 PLUS</b>	534	564 <sup>3</sup>	584 <sup>3</sup>	20	30 <sup>3</sup>	58
<b>L120-11-C12 PLUS</b>	564	594 <sup>3</sup>	614 <sup>3</sup>	20	30 <sup>3</sup>	58



<sup>1</sup> Drive adapter width of 40x1 / 42x2 (4930 300 086 0) page 193, selection of a different drive adapter will change dimensions I<sub>2</sub>, I<sub>3</sub> and I<sub>5</sub>

<sup>2</sup> Drive adapter width of DW78 R+F (4930 300 091 0) page 191, selection of a different drive adapter will change dimensions I<sub>2</sub>, I<sub>3</sub> and I<sub>5</sub>

<sup>3</sup> Drive adapter width of DW78N (4931 300 365 0) page 191, selection of a different drive adapter will change dimensions I<sub>2</sub>, I<sub>3</sub> and I<sub>5</sub>



**BECKER**





# Sun protection drives for emergency manual operation with electronic limit switching

R20-C33 ... R40-C33

- Suitable for use for:
- Open and semi-open articulated arm awnings
  - Cassette awnings

**Blockage detection with multiple testing**

**Two intermediate positions can be programmed**

**Fabric untensioning:** the drive protects the fabric by untensioning it in the upper stop limit position - function can be activated/deactivated

**Fabric tensioning function:** the drive tensions the fabric by moving to a freely adjustable reversing position - function can be activated/deactivated

**Higher closing force for devices such as cassette awnings**

**Compatible with sun/wind/rain sensors** for maximum convenience

**Supports parallel connection**

**Plug-in connecting cable,** available in a variety of lengths

**Integrated Centronic radio receiver:** unidirectional, 868.3 MHz, compatible with the Centronic range of control units

**Single, group and central control possible (also via radio)**

Technical data	Item number	Torque (Nm)	Speed (rpm)	Limit switch range (revolutions)	Nominal current (A)	Power consumption (W)	Connecting cable (m)
R20-17-C33	2020 130 185 0	20	17	64	0,70	160	*
R30-17-C33	2030 130 188 0	30	17	64	0,90	210	*
R40-17-C33	2040 130 191 0	40	17	64	1,15	260	*

Rated voltage: 230 V/AC /50Hz    Operating mode: S2 4 min    Degree of protection: IP44

\*C-plug connecting cables are available in various versions and lengths, and are to be ordered separately (cf. table on page 84)



**On-site operation possible** via a wired 1-way button

**Setting limit positions:** automatic detection with existing upper stop and fixed point lower limit position programming

**Auto-install function:** the drive programs the limit positions automatically

**Intelligent installation management** allows for quick limit position corrections during installation

**Switchable stop behaviour**

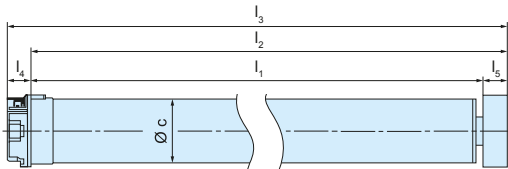
**Limit position status indicator:** the drive indicates the lack of a limit position by briefly stopping

**Automatic shading solution length adjustment:** the shading solution length is automatically detected and corrected by the drive

**Convenient threshold adjustment via the hand-held transmitter**

**Switch on the motor head** to change the direction of rotation and to activate and deactivate programming mode

Dimensions (in mm)	I <sub>1</sub>	I <sub>2</sub>	I <sub>3</sub>	I <sub>4</sub>	I <sub>5</sub>	Øc
R20-17-C33	500	517 <sup>1</sup>	534 <sup>1</sup>	17	17 <sup>1</sup>	45
R30-17-C33	529	546 <sup>1</sup>	563 <sup>1</sup>	17	17 <sup>1</sup>	45
R40-17-C33	540	556 <sup>1</sup>	574 <sup>1</sup>	17	17 <sup>1</sup>	45



<sup>1</sup> Drive adapter width of DW78R+F (4930 300 091 0) page 191, selection of a different drive adapter will change dimensions I<sub>2</sub>, I<sub>3</sub> and I<sub>5</sub>





# Sun protection drives for locking systems with integrated radio receiver

R8-C16 ... R40-C16

L50-C16 ... L120-C16

Suitable for use for:  
■ Locking systems

**Blockage detection:** switches off in the event of obstructions (e.g. due to freezing) and torque increases

**Fabric tensioning function:** the drive tensions the fabric by moving to a freely adjustable reversing position - function can be activated/deactivated

**Two intermediate positions can be programmed**

**Compatible with sun/wind/rain sensors** for maximum convenience

**Memory function:** integrated timer can be activated via MemoryControl transmitter

**Supports parallel connection**

**Fabric untensioning:** the drive protects the fabric by untensioning it in the upper stop limit position - function can be activated/deactivated

**Plug-in connecting cable,** available in a variety of lengths

Technical data	Item number	Torque (Nm)	Speed (rpm)	Limit switch range (revolutions)	Nominal current (A)	Power consumption (W)	Connecting cable (m)
R8-17-C16	2010 130 181 0	8	17	64	0,45	100	*
R12-17-C16	2010 130 182 0	12	17	64	0,50	110	*
R20-17-C16	2020 130 159 0	20	17	64	0,70	160	*
R30-17-C16	2030 130 164 0	30	17	64	0,90	210	*
R40-17-C16	2040 130 170 0	40	17	64	1,15	260	*
L50-17-C16	2050 130 183 0	50	17	64	1,4	315	*
L70-17-C16	2070 130 120 0	70	17	64	1,9	430	*
L80-11-C16	2080 130 158 0	80	11	64	1,4	310	*
L100-11-C16	2100 130 103 0	100	11	64	1,56	354	*
L120-11-C16	2120 130 121 0	120	11	64	1,9	435	*

Rated voltage: 230 V/AC / 50Hz    Operating mode: S2 4 min    Degree of protection: IP44

\*C-plug connecting cables are available in various versions and lengths, and are to be ordered separately (cf. table on page 84)

**Integrated Centronic radio receiver:** unidirectional, 868.3 MHz, compatible with the Centronic range of control units

**For locking systems:** the drive locks and unlocks automatically in the lower limit position

**Single, group and central control possible (also via radio)**

**On-site operation possible** via a wired 1-way button

**Setting limit positions:** automatic detection with existing upper stop and fixed point lower limit position programming

**Intelligent installation management** allows for quick limit position corrections during installation

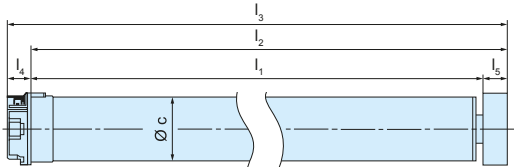
**Limit position status indicator:** the drive indicates the lack of a limit position by briefly stopping

**Automatic shading solution length adjustment:** the shading solution length is automatically detected and corrected by the drive

**Convenient threshold adjustment via the hand-held transmitter**

**Switch on the motor head** to change the direction of rotation and to activate and deactivate programming mode

Dimensions (in mm)	I <sub>1</sub>	I <sub>2</sub>	I <sub>3</sub>	I <sub>4</sub>	I <sub>5</sub>	Øc
R8-17-C16	471	511 <sup>1</sup>	528 <sup>1</sup>	17	40 <sup>1</sup>	45
R12-17-C16	471	511 <sup>1</sup>	528 <sup>1</sup>	17	40 <sup>1</sup>	45
R20-17-C16	500	540 <sup>1</sup>	557 <sup>1</sup>	17	40 <sup>1</sup>	45
R30-17-C16	524	564 <sup>1</sup>	591 <sup>1</sup>	17	40 <sup>1</sup>	45
R40-17-C16	539	579 <sup>1</sup>	596 <sup>1</sup>	17	40 <sup>1</sup>	45
L50-17-C16	536	566 <sup>1</sup>	586 <sup>1</sup>	20	30 <sup>1</sup>	58
L70-17-C16	566	596 <sup>1</sup>	616 <sup>1</sup>	20	30 <sup>1</sup>	58
L80-11-C16	536	566 <sup>1</sup>	586 <sup>1</sup>	20	30 <sup>1</sup>	58
L100-11-C16	566	596 <sup>1</sup>	616 <sup>1</sup>	20	30 <sup>1</sup>	58
L120-11-C16	566	596 <sup>1</sup>	616 <sup>1</sup>	20	30 <sup>1</sup>	58



<sup>1</sup> Drive adapter width of DW78R+F (4930 300 091 0) page 191, selection of a different drive adapter will change dimensions I<sub>2</sub>, I<sub>3</sub> and I<sub>5</sub>





# “ZIP/Fixed Screens” sun protection drives with integrated radio receiver

P5-C18 ... P9-C18

R8-C18 ... R40-C18

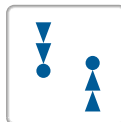
Suitable for use for:  
■ ZIP screens



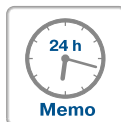
**Blockage detection with multiple testing**



**Sensitive obstacle detection with multiple testing**



**Two intermediate positions can be programmed**



**Memory function:** integrated timer can be activated via MemoryControl transmitter



**Fabric untensioning:** the drive protects the fabric by untensioning it in the upper stop limit position - function can be activated/deactivated



**Compatible with sun/wind/rain sensors** for maximum convenience



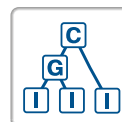
**Supports parallel connection**



**Plug-in connecting cable,** available in a variety of lengths



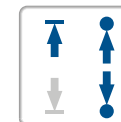
**Integrated Centronic radio receiver:** unidirectional, 868.3 MHz, compatible with the Centronic range of control units



**Single, group and central control possible (also via radio)**



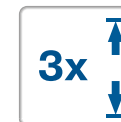
**On-site operation possible** via a wired 1-way button



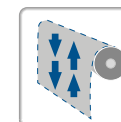
**Setting limit positions:** automatic detection with existing upper stop and fixed point upper/lower limit position programming



**Auto-install function:** the drive programs the limit positions automatically



**Intelligent installation management** allows for quick limit position corrections during installation



**Limit position status indicator:** the drive indicates the lack of a limit position by briefly stopping



**Automatic shading solution length adjustment:** the shading solution length is automatically detected and corrected by the drive



**Convenient threshold adjustment** via the hand-held transmitter

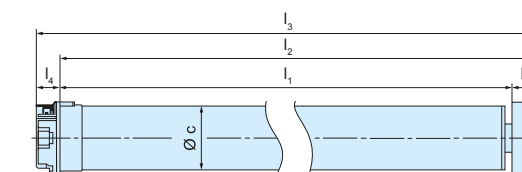


**Switch on the motor head** to change the direction of rotation and to activate and deactivate programming mode

Technical data	Item number	Torque (Nm)	Speed (rpm)	Limit switch range (revolutions)	Nominal current (A)	Power consumption (W)	Connecting cable (m)
P5-20-C18	2009 130 114 0	5	20	64	0,45	110	*
P5-30-C18	2009 130 115 0	5	30	64	0,45	110	*
P9-16-C18	2009 130 116 0	9	16	64	0,45	110	*
R8-17-C18	2010 130 163 0	8	17	64	0,45	100	*
R12-17-C18	2010 130 164 0	12	17	64	0,50	110	*
R20-17-C18	2020 130 147 0	20	17	64	0,70	160	*
R30-17-C18	2030 130 152 0	30	17	64	0,90	210	*
R40-17-C18	2040 130 159 0	40	17	64	1,15	260	*

**Rated voltage:** 230 V/AC/50Hz **Operating mode:** S2 4 min **Degree of protection:** IP44

Dimensions (in mm)	I <sub>1</sub>	I <sub>2</sub>	I <sub>3</sub>	I <sub>4</sub>	I <sub>5</sub>	Øc
P5-20-C18	453	493 <sup>1</sup>	506 <sup>1</sup>	13	40 <sup>1</sup>	35
P5-30-C18	453	493 <sup>1</sup>	506 <sup>1</sup>	13	40 <sup>1</sup>	35
P9-16-C18	453	493 <sup>1</sup>	506 <sup>1</sup>	13	40 <sup>1</sup>	35
R8-17-C18	471	511 <sup>2</sup>	528 <sup>2</sup>	17	40 <sup>2</sup>	45
R12-17-C18	471	511 <sup>2</sup>	528 <sup>2</sup>	17	40 <sup>2</sup>	45
R20-17-C18	500	540 <sup>2</sup>	557 <sup>2</sup>	17	40 <sup>2</sup>	45
R30-17-C18	524	564 <sup>2</sup>	581 <sup>2</sup>	17	40 <sup>2</sup>	45
R40-17-C18	539	579 <sup>2</sup>	596 <sup>2</sup>	17	40 <sup>2</sup>	45



<sup>1</sup> Drive adapter width of O-S40 (4930 200 246 0) page 197, selection of a different drive adapter will change dimensions I<sub>2</sub>, I<sub>3</sub> and I<sub>5</sub>

<sup>2</sup> Drive adapter width of O-DW78R+F (4930 200 274 0) page 198, selection of a different drive adapter will change dimensions I<sub>2</sub>, I<sub>3</sub> and I<sub>5</sub>

\*C-plug connecting cables are available in various versions and lengths, and are to be ordered separately (cf. table on page 84)



**BECKER**





# “ZIP/Fixed Screens” sun protection drives with integrated radio receiver

**P5-C18 PLUS ... P9-C18 PLUS**

**R8-C18 PLUS ... R40-C18 PLUS**

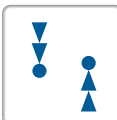
Suitable for use for:  
■ ZIP screens



**Blockage detection with multiple testing**



**Sensitive obstacle detection with multiple testing**



**Two intermediate positions can be programmed**



**Memory function:** integrated timer can be activated via MemoryControl transmitter



**Fabric untensioning:** the drive protects the fabric by untensioning it in the upper stop limit position - function can be activated/deactivated



**Mesh technology** ensures the automatic networking of all devices to create a powerful network



**Compatible with sun/wind/rain sensors** for maximum convenience



**Option of wireless software update**



**Supports parallel connection**



**Plug-in connecting cable,** available in a variety of lengths

Technical data	Item number	Torque (Nm)	Speed (rpm)	Limit switch range (revolutions)	Nominal current (A)	Power consumption (W)	Connecting cable (m)
<b>P5-20-C18 PLUS</b>	2009 130 162 0	5	20	64	0,45	110	*
<b>P5-30-C18 PLUS</b>	2009 130 163 0	5	30	64	0,45	110	*
<b>P9-16-C18 PLUS</b>	2009 130 164 0	9	16	64	0,45	110	*
<b>R8-17-C18 PLUS</b>	2010 130 217 0	8	17	64	0,45	100	*
<b>R12-17-C18 PLUS</b>	2010 130 218 0	12	17	64	0,50	110	*
<b>R20-17-C18 PLUS</b>	2020 130 186 0	20	17	64	0,70	160	*
<b>R30-17-C18 PLUS</b>	2030 130 189 0	30	17	64	0,90	210	*
<b>R40-17-C18 PLUS</b>	2040 130 192 0	40	17	64	1,15	260	*

**Rated voltage:** 230 V/AC/50Hz **Operating mode:** S2 4 min **Degree of protection:** IP44

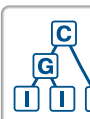
\*C-plug connecting cables are available in various versions and lengths, and are to be ordered separately (cf. table on page 84)  
**Note:** drive adapter und Ringe für sensible Hinderniserkennung finden Sie ab Seite 198.



**Integrated CentronicPlus radio transceiver:** bidirectional, 868.3 MHz, the drive reports back its position, any blockage and other status information



**Integrated Centronic radio receiver:** unidirectional, 868.3 MHz, compatible with the Centronic range of control units



**Single, group and central control possible (also via radio)**



**On-site operation possible** via a wired 1-way button



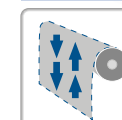
**Setting limit positions:** automatic detection with existing upper stop and fixed point upper/lower limit position programming



**Auto-install function:** the drive programs the limit positions automatically



**Intelligent installation management** allows for quick limit position corrections during installation



**Limit position status indicator:** the drive indicates the lack of a limit position by briefly stopping



**Automatic shading solution length adjustment:** the shading solution length is automatically detected and corrected by the drive

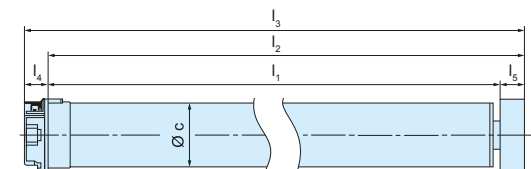


**Convenient threshold adjustment via the hand-held transmitter**



**Switch on the motor head** to change the direction of rotation and to activate and deactivate programming mode

Dimensions (in mm)	I <sub>1</sub>	I <sub>2</sub>	I <sub>3</sub>	I <sub>4</sub>	I <sub>5</sub>	Øc
<b>P5-20-C18 PLUS</b>	453	470 <sup>1</sup>	482 <sup>1</sup>	12	17 <sup>1</sup>	35
<b>P5-30-C18 PLUS</b>	453	470 <sup>1</sup>	482 <sup>1</sup>	12	17 <sup>1</sup>	35
<b>P9-16-C18 PLUS</b>	453	470 <sup>1</sup>	482 <sup>1</sup>	12	17 <sup>1</sup>	35
<b>R8-17-C18 PLUS</b>	471	488 <sup>2</sup>	505 <sup>2</sup>	17	17 <sup>2</sup>	45
<b>R12-17-C18 PLUS</b>	471	488 <sup>2</sup>	505 <sup>2</sup>	17	17 <sup>2</sup>	45
<b>R20-17-C18 PLUS</b>	500	517 <sup>2</sup>	534 <sup>2</sup>	17	17 <sup>2</sup>	45
<b>R30-17-C18 PLUS</b>	525	542 <sup>2</sup>	559 <sup>2</sup>	17	17 <sup>2</sup>	45
<b>R40-17-C18 PLUS</b>	540	556 <sup>2</sup>	574 <sup>2</sup>	17	17 <sup>2</sup>	45



<sup>1</sup> Drive adapter width of O-S40 (4930 200 246 0) page 197, selection of a different drive adapter will change dimensions I<sub>2</sub>, I<sub>3</sub> and I<sub>5</sub>  
<sup>2</sup> Drive adapter width of O-DW78R+F (4930 200 274 0) page 198, selection of a different drive adapter will change dimensions I<sub>2</sub>, I<sub>3</sub> and I<sub>5</sub>



**BECKER**



# Roller shutter drives

## load table

The tensile load figures are guidelines for single-piece roller shutter curtains. (Tensile load figures in kg)  
The friction typical for roller shutters has been taken into account (8 %)!

**Example:**

Shaft dia. 60 mm  
Roller shutter height 2.20 m  
Profile thickness 14 mm  
23 kg curtain weight

**Result type: R12**

Shaft diameter (mm)		40		50				60			
Roller shutter height (m)		1,4	2,2	1,4	2,2	1,4	2,2	1,4	2,2	1,4	2,2
Profile thickness (mm)		8	8	8	8	14	14	8	8	14	14
Type	Nm/rpm	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg
P5	5/16	15	13	13	12	11	9	12	11	10	9
P5	5/20	15	13	13	12	11	9	12	11	10	9
P5	5/30	15	13	13	12	11	9	12	11	10	9
P9	9/16	27	23	25	22	21	18	22	20	20	17
P13	13/9	38	33	35	31	30	26	31	29		
R4	4/17			10	9	8	7	9	8	8	7
R7	7/17			19	17	16	14	17	16	15	13
R8	8/17			22	19	18	15	20	18	17	15
R12	12/17			33	29	27	23	30	27	26	23
R20	20/17			55	49	44	38	50	45	43	38
R30	30/17			83	73	73	62	75	68	64	57
R40	40/17	122	106	112	100	92	79	100	93	84	75
R50	50/11			139	123	122	103	125	114	107	94

Shaft diameter (mm)		70		78		85		108		125	
Roller shutter height (m)		1,4	2,2	1,4	2,2	1,4	2,2	2,2	3	2,2	3
Profile thickness (mm)		14	14	14	14	14	14	19	19	19	19
Type	Nm/rpm	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg
R4	4/17	7	6	7	6	6	6				
R7	7/17	13	12	13	12	12	11				
R8	8/17	16	15	15	14	15	13				
R12	12/17	24	22	23	21	22	20				
R20	20/17	41	37	39	35	37	34				
R30	30/17	61	55	58	53	56	50				
R40	40/17	78	72	74	69	71	66	52	50	48	46
R50	50/11	102	92	97	88	94	84				
L60	60/11	122	111	116	106	112	101	83	79	78	72
L70	70/17	138	128	132	122	126	117	93	99	86	92
L80	80/11	163	148	156	141	150	135	111	106	104	98
L120	120/11	245	222	233	211	225	202	167	159	156	145

for type M19 DC drives

Shaft diameter (mm)		40		50				60			
Roller shutter height (m)		1,4	2,2	1,4	2,2	1,4	2,2	1,4	2,2	1,4	2,2
Profile thickness (mm)		8	8	8	8	14	14	8	8	14	14
Type	Nm/rpm	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg
P6	6/20	18	16	17	15	14	12	15	14	13	11
P10	10/11	31	27	28	25	23	20	25	23	21	19
R20	20/17	62	54	57	51	46	40	51	47	43	38

Shaft diameter (mm)		70		78		85	
Roller shutter height (m)		1,4	2,2	1,4	2,2	1,4	2,2
Profile thickness (mm)		14	14	14	14	14	14
Type	Nm/rpm	kg	kg	kg	kg	kg	kg
P6	6/20	12	11	11	10	10	10
P10	10/11	20	18	19	17	18	16
R20	20/17	40	37	38	35	36	33





# Function matrix

## Roller shutter drives

.....

	Mechanical limit switching							Electronic limit switching														Integrated radio receiver					
	M04			M05		M06	M07	PR+	E01	E01	E02		E03		E14	E22	EVO 20 RJ	EVO 20 R	EVO 20 R BT	S01		C01		C01 PLUS		N01	
Type in mm	P (Ø 35)	R (Ø 45)	L (Ø 58)	R (Ø 45)	L (Ø 58)	L (Ø 58)	L (Ø 58)	P (Ø 35)	P (Ø 35)	R (Ø 45)	R (Ø 45)		P (Ø 35)	R (Ø 45)	R (Ø 45)	R (Ø 45)	R (Ø 45)	R (Ø 45)	R (Ø 45)	P (Ø 35)	R (Ø 45)	P (Ø 35)	R (Ø 45)	P (Ø 35)	R (Ø 45)	P (Ø 35)	R (Ø 45)
Torque in Nm	5–13	8–50	50–120	12–50	50–120	35–120	60+120	5–9	5–9	8–40	8–30		5–9	8–30	8–40	8–30	8-20	8-20	8-20	5–9	8–40	5–9	8–40	5–9	8–40	5–9	8-40
Speed in 1/min	9–20	11–17	11	11–17	11	2,5+3+8	3+8	16–20	16–20	17	17		16	17	17	17	17	17	17	16	17	16	17	16	17		
Remote control																						Centro- nic	Centro- nic	Centro- nic PLUS	Centro- nic PLUS	✗	✗
Plug-in connecting cable	✗	✗	✗						✗	✗					✗		✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗
VDE conformity mark	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗		✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗
NF conformity mark	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗		✗	✗	✗					✗	✗	✗	✗				
DC						✗	✗																				
Crank				✗	✗		✗													✗	✗						
Suspension springs	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗		✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗
Anti-lifting devices								✗	✗	✗	✗		✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗
Setting of limit positions																											
On the drive head	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗																	
With adjusting cable								✗	✗	✗	✗		✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗
With radio transmitter															✗								✗	✗	✗	✗	✗
Upper stop to lower stop								✗	✗	✗	✗		✗	✗	✗	✗		✗	✗	✗	✗	✗	✗	✗	✗	✗	✗
Upper stop to lower point								✗	✗	✗			✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗
Upper point to lower stop								✗	✗	✗			✗	✗	✗			✗	✗	✗	✗	✗	✗	✗	✗	✗	✗
Upper point to lower point	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗			✗	✗	✗		✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗
Intelligent installation management								✗	✗	✗	✗		✗	✗	✗	✗				✗	✗	✗	✗	✗	✗	✗	✗
LSI-Limit positions status indicator									✗	✗	✗		✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗
Automatic shading solution length adjustment								✗	✗	✗	✗		✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗
Anti-freeze mechanism at the top									✗	✗	✗		✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗
Obstacle detection in downward travel with flexible suspension springs									✗	✗	✗		✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗
Obstacle detection in downward travel with fixed shaft connectors								✗	✗	✗			✗	✗		✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗
Soft obstacle detection with reversing									✗	✗					✗			✗	✗	✗	✗	✗	✗	✗	✗	✗	✗
Lower anti-freeze mechanism, blockage detection in upward travel								✗	✗	✗	✗		✗	✗	✗	✗						✗	✗				
Lower anti-freeze mechanism, blockage detection in upward travel with reversing									✗	✗							✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗
Fly screen protection function									✗	✗										✗	✗	✗	✗	✗	✗	✗	✗
Soft upper stop								✗	✗	✗	✗		✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗
Dynamic torque adjustment								✗	✗	✗	✗		✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗
Connectible in parallel without isolating relay						✗	✗	✗	✗	✗	✗		✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗
Evolution technology ensures especially quiet running																	✗	✗	✗								
Different drive modes adjustable																	✗	✗	✗								
Bluetooth interface																			✗								



# Awning drives

## load table

.....

Drop length		2 m		2,5 m		3 m		3,5 m				4 m		4,5 m		5 m	
Number of arms	Width (m)	Ø R	Ø L	Ø R	Ø L	Ø R	Ø L	Ø R	Ø L			Ø R	Ø L	Ø R	Ø L	Ø R	Ø L
2	3	30	44	30	44	30		40				50	44	50	44	50	44
2	4,5	30	44	30	44	40		40				50	44	50	44	50	44
2	6	30	44	40	44	40		40				50	44	50	44	50	44
3	4,5	40	44	40	44	50	44	50	60				80		80		80
3	6	40	44	40	44	50	44	50	60				80		80		80
3	7,5	40	44	40	44	50	44	50	60				80		80		80
4	6	50	60	50	60		60		80				120		120		120
4	7,5	50	60	50	60		60		80				120		120		120
4	9	50	60	50	60		60		80				120		120		120

Drive torque (Nm) depends on the drop length (m)  
Assumption: 78 mm shaft Ø  
20° drop angle

Becker does not accept any responsibility for the accuracy of information. Due to the wide range of different brands/models and the corresponding variety in drive power requirements, the Nm data provided are non-binding and intended as a guideline only.

# Sun protection drives

## function matrix

.....

	Mechanical limit switching					Electronic limit switching									
	M04			M05		PS		E12			E15		E33	E16	
Type (tube diameter) in mm	P (Ø35)	R (Ø45)	L (Ø58)	R (Ø45)	L (Ø58)	P (Ø35)		P (Ø35)	R (Ø45)	L (Ø58)	R (Ø45)	L (Ø58)	R (Ø45)	R (Ø45)	L (Ø58)
Torque in Nm	5–13	8–50	44–120	12–50	50–120	5–9		5–9	8–50	50–120	8–50	50–120	20–40	8–40	50–120
Speed in 1/min	9–30	11–17	11–17	11–17	11–17	16–30		16–30	11–17	11–17	11–17	11–17	17	17	11–17
Plug-in connecting cable	x	x	x					x	x	x	x	x	x	x	x
VDE/NF conformity mark	x	x	x	x	x	x		x	x	x	x	x	x	x	x
Setting of limit positions															
On the drive head	x	x	x	x	x	x		x	x	x			x		
With adjusting cable						x		x	x	x	x	x	x	x	x
With radio transmitter															
Extended point to retracted point	x	x	x	x	x	x		x	x	x					
Extended point to retracted stop						x		x	x	x	x	x	x		
Retracted stop to freely programmable locking														x	x
Additional functions															
AutoInstall								x	x	x			x		
Intelligent installation management						x		x	x	x	x	x	x	x	x
Automatic fabric stretching (conservatory awning)								x	x	x			x		
Fabric untensioning								x	x	x			x		
Automatic shading solution length adjustment						x		x	x	x	x	x	x	x	x
Blockage detection during retraction						x		x	x	x	x	x	x	x	x
Higher closing force for cassette awnings								x	x	x	x	x	x		
Soft upper stop						x		x	x	x	x	x		x	x
Supports parallel connection without isolating relay						x		x	x	x	x	x	x	x	x





# Sun protection drives function matrix

	Electronic limit switching								Integrated radio receiver							
	E18		S12			S18		S18	C12			C33	C16			C18
Type (tube diameter) in mm	P (Ø 35)	R (Ø45)	P (Ø35)	R (Ø45)	L (Ø58)	P (Ø35)		R (Ø45)	P (Ø35)	R (Ø45)	L (Ø58)	R (Ø45)	R (Ø45)	L (Ø58)	P (Ø 35)	R (Ø 45)
Torque in Nm	5–9	8–40	3–9	8–50	50–120	5–9		8–40	5–9	8–50	50–120	20–40	8–40	50–120	5–9	8–40
Speed in 1/min	16–30	17	16–30	11–17	11–17	16–30		17	16–30	11–17	11–17	17	17	11–17	16–30	17
Plug-in connecting cable	x	x	x	x	x	x		x	x	x	x	x	x	x	x	x
VDE/NF conformity mark	x	x	x	x	x	x		x	x	x	x	x	x	x	x	x
Setting of limit positions																
On the drive head	x	x														
With adjusting cable	x	x	x	x	x	x		x	x	x	x	x	x	x	x	x
With radio transmitter									x	x	x	x	x	x	x	x
Extended point to retracted point	x	x							x	x	x		x	x	x	x
Extended point to retracted stop	x	x	x	x	x	x		x	x	x	x	x			x	x
Retracted stop to freely programmable locking													x	x		
Additional functions																
AutoInstall	x	x							x	x	x	x			x	x
Intelligent installation management	x	x	x	x	x	x		x	x	x	x	x	x	x	x	x
Automatic fabric stretching (conservatory awning)			x	x	x				x	x	x	x				
Fabric untensioning	x	x	x	x	x	x		x	x	x	x	x			x	x
Automatic shading solution length adjustment	x	x	x	x	x	x		x	x	x	x	x	x	x	x	x
Blockage detection during retraction	x	x	x	x	x	x		x	x	x	x	x	x	x	x	x
Higher closing force for cassette awnings			x	x	x				x	x	x	x				
Soft upper stop	x	x	x	x	x	x		x	x	x	x		x	x	x	x
Supports parallel connection without isolating relay	x	x	x	x	x	x		x	x	x	x	x	x	x	x	x

	Integrated radio receiver				
	C12 PLUS			C18 PLUS	
Type (tube diameter) in mm	P (Ø35)	R (Ø45)	L (Ø58)	P (Ø 35)	R (Ø 45)
Torque in Nm	5–9	8–50	50–120	5–9	8–40
Speed in 1/min	16–30	11–17	11–17	16–30	17
Plug-in connecting cable	x	x	x	x	x
VDE/NF conformity mark	x	x	x	x	x
Setting of limit positions					
On the drive head					
With adjusting cable	x	x	x	x	x
With radio transmitter	x	x	x	x	x
Extended point to retracted point	x	x	x	x	x
Extended point to retracted stop	x	x	x	x	x
Retracted stop to freely programmable locking					
Additional functions					
AutoInstall	x	x	x	x	x
Intelligent installation management	x	x	x	x	x
Automatic fabric stretching (conservatory awning)	x	x	x		
Fabric untensioning	x	x	x	x	x
Automatic shading solution length adjustment	x	x	x	x	x
Blockage detection during retraction	x	x	x	x	x
Higher closing force for cassette awnings	x	x	x		
Soft upper stop	x	x	x	x	x
Supports parallel connection without isolating relay	x	x	x	x	x





# C+plug

## Becker Plug-in connecting cable

- **High flexibility** thanks to different versions of C+plug plug-in connecting cables
- **No screw connection is necessary**, thereby simplifying mounting and disassembly
- **Drive head can be overwrapped**
- **Degree of protection IP44**
- **Only a conventional mains tester** with a narrow blade is needed for assembling/dismantling the drive cable
- **UV-resistant rubber cable** available in both white and black
- **White cable** allows for inconspicuous integration even in visible areas
- **Black cable** allows for inconspicuous integration amongst dark or black elements
- **Black cable is halogen-free**
- **Dismantling the cable** when fitted into the roller shutter box is usually possible (depending on the installation position)



## Available versions

### With wire end ferrules

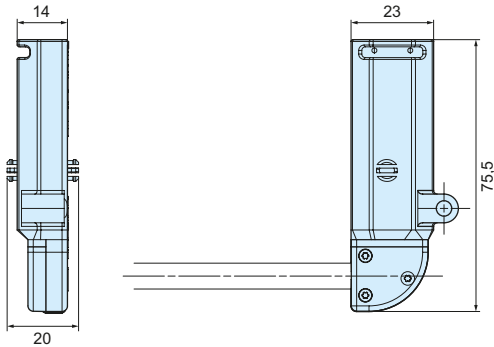
Connecting cable (m)	Colour	Item no.
0,5 m	white	2010 270 603 0
1 m	white	2010 270 408 0
2 m	white	2010 270 442 0
2 m	black	2010 270 464 0
3 m	white	2010 270 380 0
3 m	black	2010 270 541 0
5 m	white	2010 270 421 0
5 m	black	2010 270 698 0
10 m	white	2010 270 423 0
10 m	black	2010 270 699 0

### With Hirschmann plug Type STAS 3N incl. securing clip

Connecting cable (m)	Colour	Item no.
0,3 m	white	2010 270 432 0
0,5 m	white	2010 270 384 0
0,5 m	black	2010 270 499 0
1 m	white	2010 270 383 0
1 m	black	2010 270 501 0
2,5 m	black	2010 270 503 0
5 m	black	2010 270 505 0
10 m	black	2010 270 507 0

### With Becker coupling

Connecting cable (m)	Colour	Item no.
0,095 m	black	2010 270 653 0



# C+plug

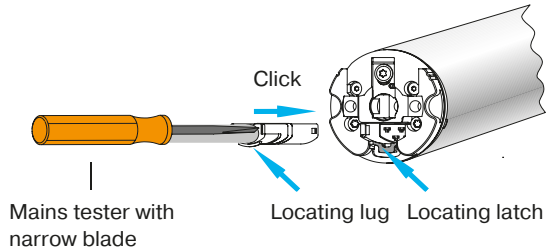
## Assembly tool

- One side for mounting
- One side for dismantling
- Secure engagement and release of the C+plug connector
- Easy and reliable application of the C+plug tool through guidance along the connecting cable
- For drives with tube diameters 45 and 58 mm

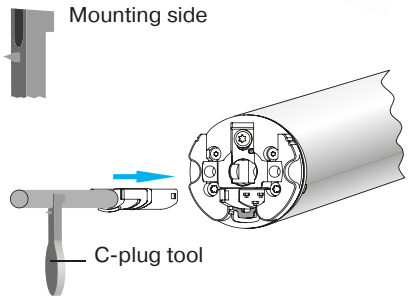
Item no. 2010 300 365 0



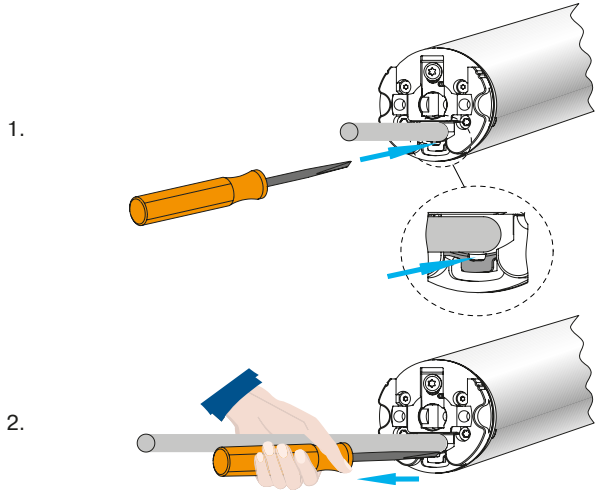
## Mounting with mains tester



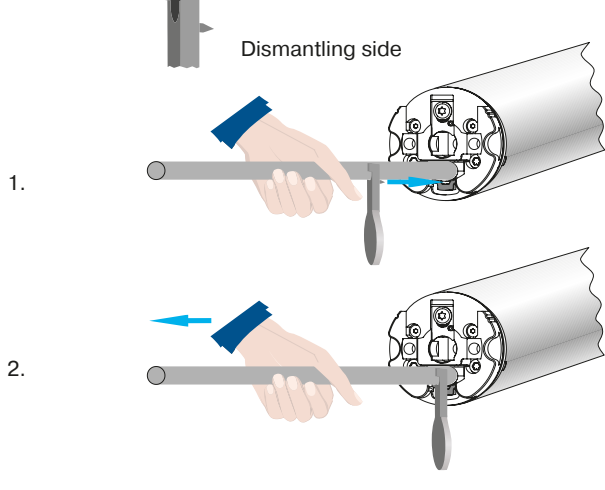
## Mounting with C+plug tool



## Dismantling with mains tester



## Dismantling with C+plug tool





Plug-in Becker connecting cable  
5-core for SMI drives

- **High flexibility** thanks to different versions of C+plug plug-in connecting cables
- **No screw connection is necessary**, thereby simplifying mounting and disassembly
- **Drive head can be overwrapped**
- **Degree of protection IP44**
- **Only a conventional mains tester** with a narrow blade is needed for assembling/dismantling the drive cable
- **UV-resistant rubber cable**
- **Black cable** allows for inconspicuous integration amongst dark or black elements
- **Black cable is halogen-free**
- **Dismantling the cable** when fitted into the roller shutter box is usually possible (depending on the installation position)



Available versions

Plug-in connecting cable	Length (m)	Item number
with wire end ferrules	1	2010 270 612 0
	2 (Standard)	2010 270 605 0
	3	2010 270 649 0
	5	2010 270 614 0
	10	2010 270 615 0
with Hirschmann plug type STAS 4N incl. securing clip, SMI	0,5	2010 270 616 0
	2	2010 270 617 0
	5	2010 270 618 0





Overview

Control units

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Becker is your partner for energy efficiency. That's what our energy seal stands for.







# Wired control units

## Switch/button

### EasyControl EC41

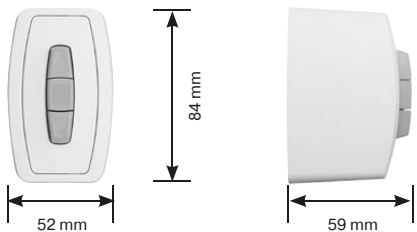
Switch/button

- Can be used as latched or push-button switch
- One function for each button (UP, STOP, DOWN)
- Slim surface-mounted housing

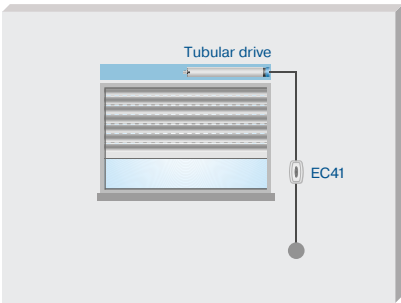


Item no. 4030 000 003 0	
Colour	Alpine white
Rated voltage	230 V/AC / 50 Hz
Switching current	6A/ 230 V/AC at cos φ = 1
Degree of protection	IP20
Class of protection	II
Permissible ambient temperature	0 to +55 °C
Type of mounting	Surface-mounted

Dimensions



Functional principle – typical wiring diagrams



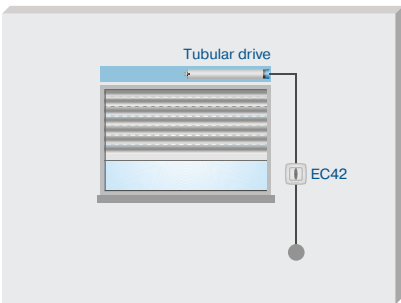
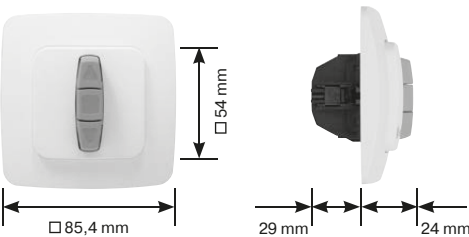
### EasyControl EC42

Switch/button

- Can be used as latched or push-button switch
- One function for each button (UP, STOP, DOWN)
- Can be fitted into any flush-mounted switch box in 58 mm diameter



Item no. 4030 000 002 0	
Colour	Alpine white
Rated voltage	230 V/AC / 50 Hz
Switching current	6A/ 230 V/AC at cos φ = 1
Degree of protection	IP20
Class of protection	II
Permissible ambient temperature	0 to +55 °C
Type of mounting	Device box according to DIN EN 49073 / DIN EN 60670



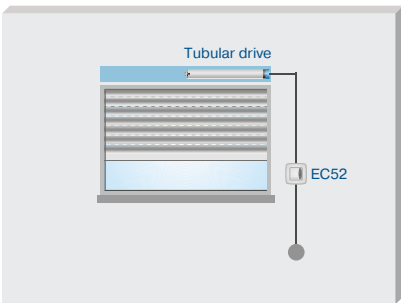
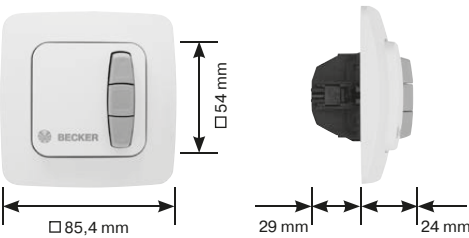
### EasyControl EC52

Switch/button\*

- Can be used as latched or push-button switch
- One function for each button (UP, STOP, DOWN)
- Adapter frame allows for integration in various flush-mounted switch ranges (58 mm diameter)



Item no. 4030 000 001 0	
Colour	Alpine white
Rated voltage	230 V/AC / 50 Hz
Switching current	6A/ 230 V/AC at cos φ = 1
Degree of protection	IP20
Class of protection	II
Permissible ambient temperature	0 to +55 °C
Type of mounting	Device box according to DIN EN 49073 / DIN EN 60670



\* Note: Adapter frames can be found on page 154.

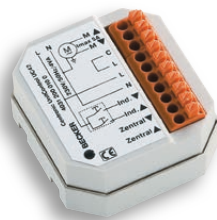


# Wired control units

## Single and group control units

### UnitControl UC42

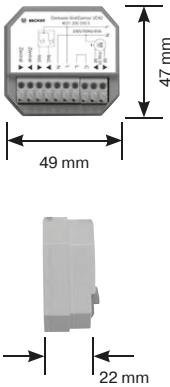
Single and group control unit



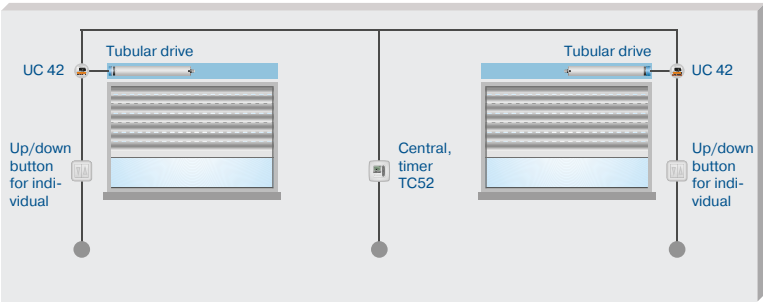
- Can be combined with any switch range
- Simple installation behind the operator control in any deep flush-mounted switch box
- Can be integrated upstream of timers and sun protection controls
- Blind mode: Exact adjustment of blind laths in touch mode
- Potential-free connection is possible

Item no. 4031 000 003 0	
Rated voltage	230 V/AC / 50 Hz
Switching current	5A / 230 V/AC at cos φ = 1
Degree of protection	IP30
Class of protection	II
Permissible ambient temperature	−40 to +70 °C
Type of mounting	Device box according to DIN EN 49073 / DIN EN 60670

Dimensions



Functional principle – typical wiring diagrams



UC45  
Single and group control unit for switch cabinet mounting

Item no. 4031 000 004 0 (UC45)
--------------------------------



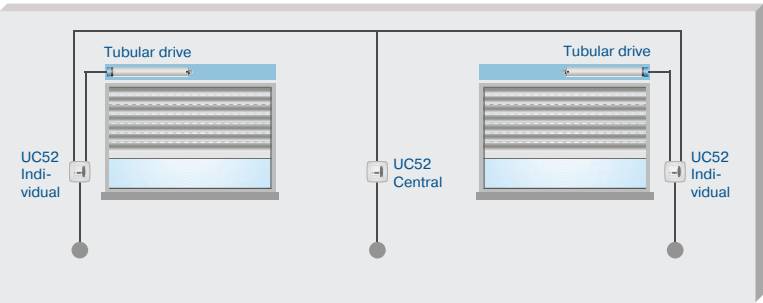
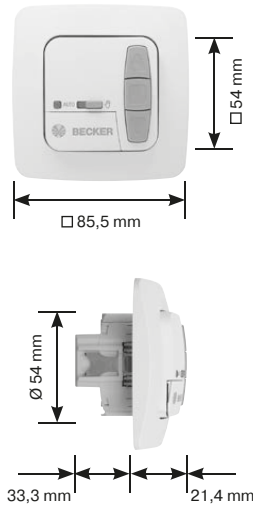
### UnitControl UC52

Single and group control unit\*



- Slide switch for easy changing between manual and automatic mode
- An additional operator control can be connected
- Enables the programming of two freely selectable intermediate positions
- Blind mode: Exact adjustment of blind laths in touch mode

Item no. 4031 000 001 0	
Colour	Alpine white
Rated voltage	230 V/AC / 50 – 60 Hz
Switching current	5 A / 230 V/AC at cos φ = 1
Degree of protection	IP20
Class of protection	II
Permissible ambient temperature	0 to +55 °C
Type of mounting	Device box according to DIN EN 49073 / DIN EN 60670



\* Note: Adapter frames can be found on page 154.



# Wired control units

## Memory button

### MemoControl MC42

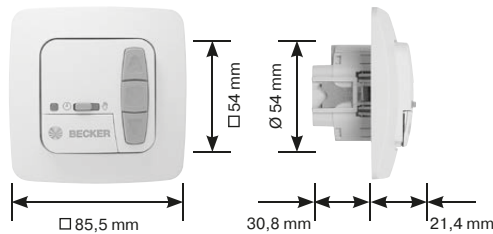
Memory button\*

- Easy programming of two switching times (daily repetition)
- Slide switch for easy changing between manual and automatic mode
- Enables the programming of two freely selectable intermediate positions
- Blind mode: Exact adjustment of blind laths in touch mode

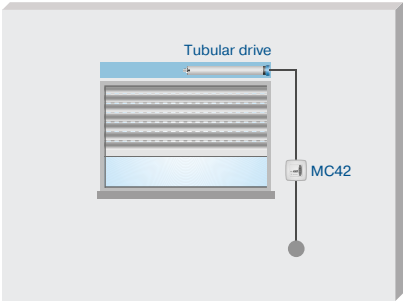


Item no. 4032 000 001 0	
Colour	Alpine white
Rated voltage	230 – 240 V/AC / 50 – 60 Hz
Switching current	5 A / 230 V/AC at cos φ = 1
Degree of protection	IP20
Class of protection	II
Permissible ambient temperature	0 to +55 °C
Type of mounting	Device box according to DIN EN 49073 / DIN EN 60670

Dimensions



Functional principle – typical wiring diagrams



## Timers

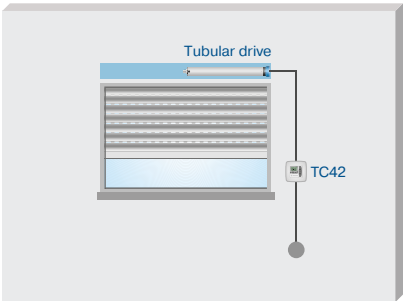
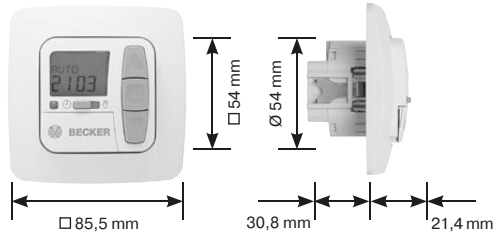
### TimeControl TC42

Timer\*

- Preprogrammed date, time and switching time function
- Block switching function (Mon – Fri, Sat – Sun)
- Slide switch for easy changing between manual and automatic mode
- Astronomical function for the evening saves readjusting the switching time
- Holiday function and automatic summer/winter time adjustment
- Enables the programming of two freely selectable intermediate positions
- Blind mode: Exact adjustment of blind laths in touch mode



Item no. 4032 000 002 0	
Colour	Alpine white
Rated voltage	230 – 240 V/AC / 50 – 60 Hz
Switching current	5 A / 230 V/AC at cos φ = 1
Battery type	CR 2032
Degree of protection	IP20
Class of protection	II
Permissible ambient temperature	0 to +55 °C
Type of mounting	Device box according to DIN EN 49073 / DIN EN 60670



\* **Note:** Adapter frames can be found on page 154.



# Wired control units

## Timers

### TimeControl TC52

Timer for light sensor\*



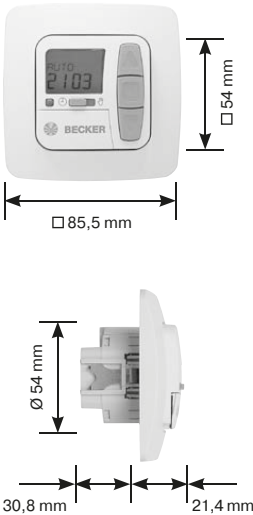
- Functions as the TC42, but also includes:
- Two different week, block and day switching programs can be set
  - Astronomical function for morning and evening saves readjusting the switching time
  - Light sensor SC43 can be connected

Item no. 4032 000 003 0	
Colour	Alpine white
Rated voltage	230 – 240 V/AC / 50 – 60 Hz
Switching current	5 A / 230 V/AC at cos φ = 1
Battery type	CR 2032
Degree of protection	IP20
Class of protection	II
Permissible ambient temperature	0 to +55 °C
Type of mounting	Device box according to DIN EN 49073 / DIN EN 60670

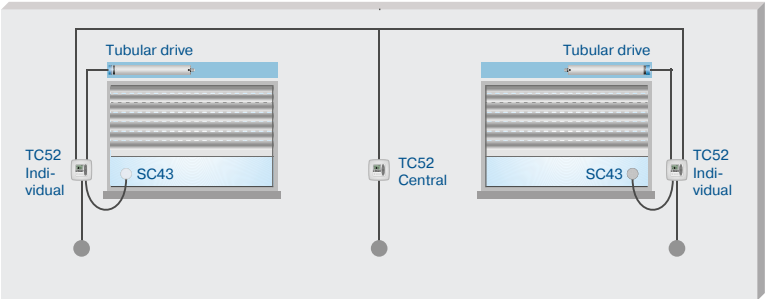
- SC43 light sensor
- Cable can be shortened

Item no. 4032 000 004 0 (2 m cable)
Item no. 4032 000 005 0 (5 m cable)

Dimensions



Functional principle – typical wiring diagrams



## Wind and sun protection control unit

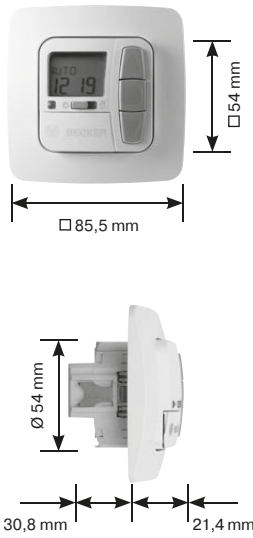
### SunWindControl SWC62

Sun/wind control unit\*



- Intermediate positions can be programmed using UP/STOP/DOWN buttons
- Daily, block and weekly program
- Separate rain/temperature input, can be used as central input
- Date, time and threshold values preset
- Slide switch for easy changing between manual and automatic mode
- Automatic shade time individually adjustable
- Automatic summer/winter time adjustment
- Enables the programming of two freely selectable intermediate positions
- Single, group or central control unit
- Wind, light, rain and temperature sensors can be connected

Item no. 4033 000 041 0	
Colour	Alpine white
Rated voltage	230 V/AC / 50 Hz
Switching current	5 A / 230 V/AC at cos φ = 1
Battery type	CR 2032
Degree of protection	IP20
Permissible ambient temperature	0 to +55 °C
Type of mounting	Device box according to DIN EN 49073 / DIN EN 60670



/// **\* Note:** Adapter frames can be found on page 154.



# Wired control units

## Sensors

Dimensions

Functional principle – typical wiring diagrams

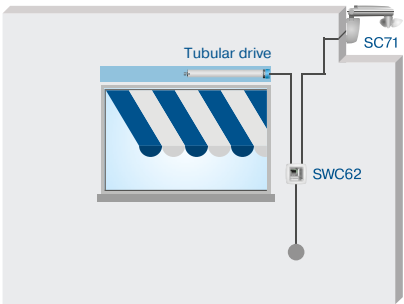
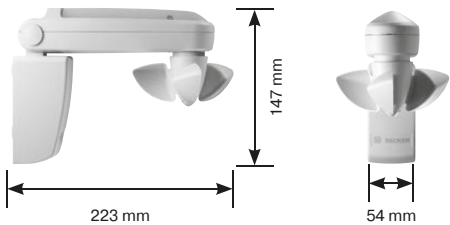
### SensorControl SC71

Wind sensor

- For sun/wind control unit SWC62
- Convenient setting of wind threshold values on SWC62
- Adjustable sensor foot for optimum mounting
- Universally applicable for exterior sun protection



Item no. 4033 000 018 0	
Colour	Light grey
Degree of protection	IP44
Permissible ambient temperature	–25 to +55 °C



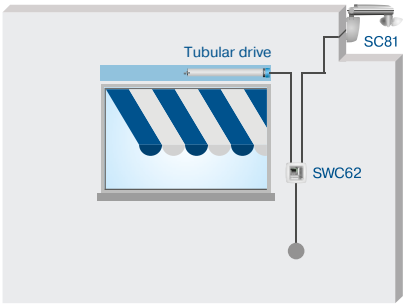
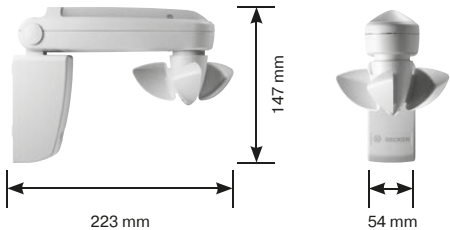
### SensorControl SC81

Sun/wind sensor

- For sun/wind control unit SWC62
- Convenient setting of sun and wind threshold values on SWC62
- Adjustable sensor foot for optimum mounting
- Universally applicable for exterior sun protection



Item no. 4033 000 019 0	
Colour	Light grey
Degree of protection	IP44
Permissible ambient temperature	–25 to +55 °C



\* **Note:** Installation brackets can be found on Page 155.



# Wired control units

## Wind and sun protection sets

### SunWindSet SWS52

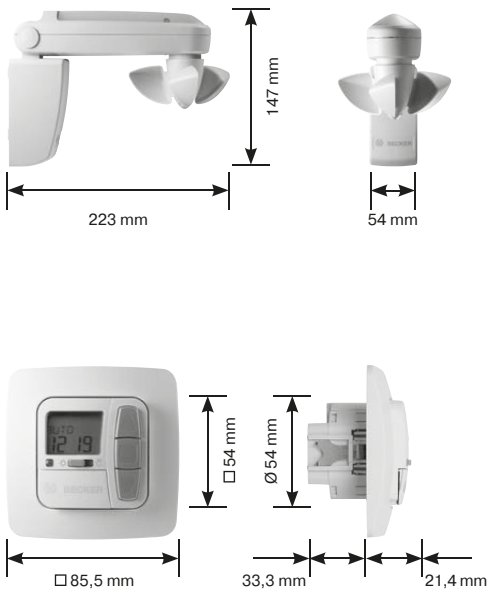
Sun/wind control unit with sensor

- Sun and wind sensor for sun/wind control unit SWC62
- Convenient setting of sun and wind threshold values on SWC62
- Adjustable sensor foot for optimum mounting
- Universally applicable for exterior sun protection

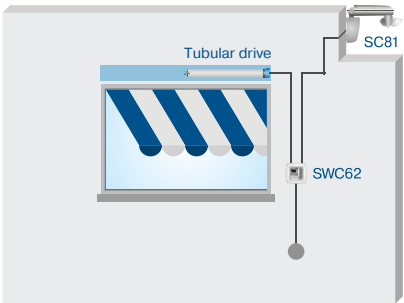


Item no. 4033 000 042 0		
	SWC62	SC81
Colour	White	Light grey
Rated voltage	230 V/AC / 50 Hz	–
Switching current	5A/ 230 – 240 V at cos φ = 1	–
Battery type	CR2032	–
Degree of protection	IP20	IP44
Class of protection	II	–
Permissible ambient temperature	0 to +55 °C	–25 to +55 °C
Type of mounting	Device box according to DIN EN 49073 / DIN EN 60670	–

Dimensions



Functional principle – typical wiring diagrams



\* **Note:** Installation brackets can be found on Page 155.





# Centronic radio control units

## Radio transmitters

### EasyControl EC411-III

1-channel wall transmitter\*



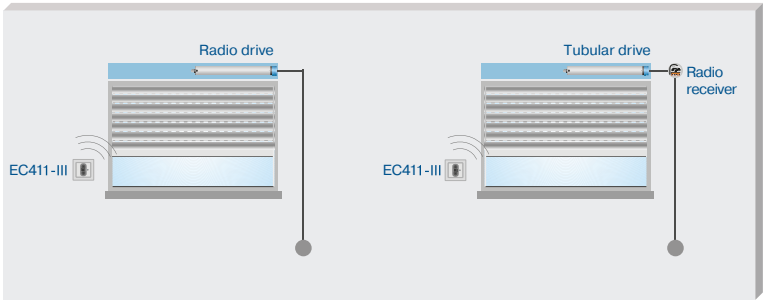
- Compatible with Centronic radio system
- Simple wall mounting
- 1-channel wall transmitter with LED display
- Can be integrated into switching ranges from many manufacturers: Berker: S1, B3, B7 / Gira: Standard, E2, Event, Esprit / Jung: AS, A500, A-Creation, A-Creation-Glas, A-Plus / Merten: M-Smart, M-Arc, M-Plan, M-Plan-Glas, M1, Atelier, M-Star / Hager: kallysto.pur, kallysto.stil, kallysto.art / PEHA: Aura / ELSO: Joy / Busch-Jaeger: Balance-SI, as well as additional manufacturers with 55 x 55 mm central board dimensions
- Single, group or central control unit

Item no. 4034 000 048 0	
Colour	White
Rated voltage	3 V/DC
Battery type	CR 2430
Degree of protection	IP20
Permissible ambient temperature	–10 to +55°C
Radio frequency	868,3 MHz
Type of mounting	Surface-mounted

Dimensions



Functional principle – typical wiring diagrams



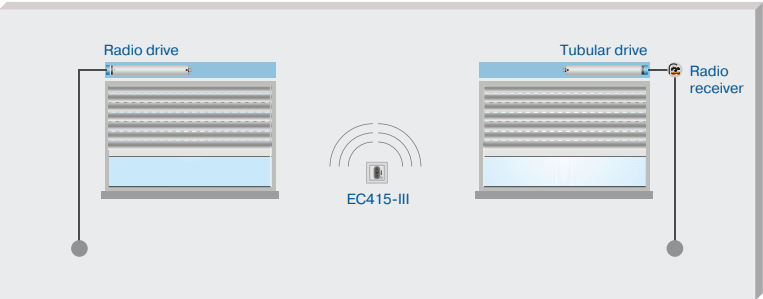
### EasyControl EC415-III

5-channel wall transmitter\*



- Compatible with Centronic radio system
- Simple wall mounting
- 5 channels with LED display
- Can be integrated into switching ranges from many manufacturers: Berker: S1, B3, B7 / Gira: Standard, E2, Event, Esprit / Jung: AS, A500, A-Creation, A-Creation-Glas, A-Plus / Merten: M-Smart, M-Arc, M-Plan, M-Plan-Glas, M1, Atelier, M-Star / Hager: kallysto.pur, kallysto.stil, kallysto.art / PEHA: Aura / ELSO: Joy / Busch-Jaeger: Balance-SI, as well as additional manufacturers with 55 x 55 mm central board dimensions
- Single, group or central control unit

Item no. 4034 000 049 0	
Colour	White
Rated voltage	3 V/DC
Battery type	CR 2430
Degree of protection	IP20
Permissible ambient temperature	–10 to +55°C
Radio frequency	868,3 MHz
Type of mounting	Surface-mounted



\* **Note:** Adapter frames can be found on page 154.





# Centronic radio control units

## Radio transmitters

### MemoControl MC411-III

1-channel wall transmitter with memory function\*



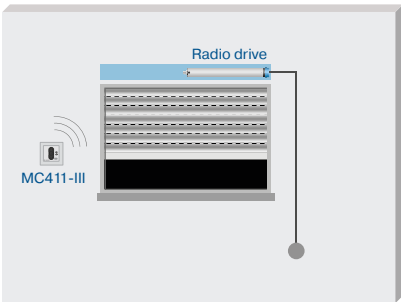
- Compatible with Centronic radio system
- Simple wall mounting
- LED display
- Can be integrated into switching ranges from many manufacturers: Berker: S1, B3, B7 / Gira: Standard, E2, Event, Esprit / Jung: AS, A500, A-Creation, A-Creation-Glas, A-Plus / Merten: M-Smart, M-Arc, M-Plan, M-Plan-Glas, M1, Atelier, M-Star / Hager: kallysto. pur, kallysto. stil, kallysto.art / PEHA: Aura / ELSO: Joy / Busch-Jaeger: Balance-SI, as well as additional manufacturers with 55 x 55 mm central board dimensions
- Single, group or central control unit
- Easy programming of two switching times (daily repetition) per channel
- Switching times not lost when battery changed
- Changeover switch for easy changing between manual and automatic mode

Item no. 4034 000 050 0	
Colour	White
Rated voltage	3 V / DC
Battery type	CR 2430
Degree of protection	IP20
Permissible ambient temperature	-10 to +55 °C
Radio frequency	868,3 MHz
Type of mounting	Surface-mounted

#### Dimensions



#### Functional principle – typical wiring diagrams



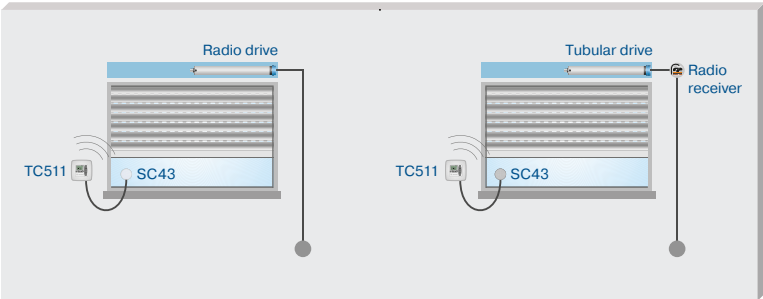
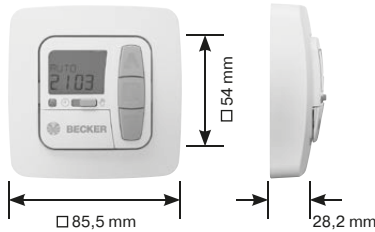
### TimeControl TC511

Wall transmitter with timer\*



- Weekly, block and daily switching program
- Astronomical function for morning and evening saves readjusting the switching times
- Holiday function and automatic summer/winter time adjustment
- Enables the programming of two freely selectable intermediate positions
- Light sensor SC43 can be connected
- Single or central control unit
- Preprogrammed date, time and switching time function

Item no. 4034 000 005 0	
Colour	Alpine white
Rated voltage	3 V/DC
Battery type	LR03 (AAA)
Degree of protection	IP20
Permissible ambient temperature	-10 to +55 °C
Radio frequency	868,3 MHz
Type of mounting	Surface-mounted



SC43 light sensor  
Cable can be shortened

Item no. 4032 000 004 0 (2 m cable)
Item no. 4032 000 005 0 (5 m cable)

\* Note: Adapter frames can be found on page 154.





# Centronic radio control units

## Radio transmitters

### EasyControl EC141-II

1-channel hand-held transmitter



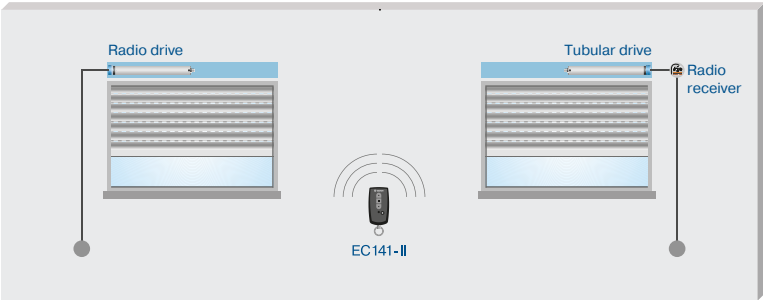
- 1 channel with LED display
- Enables the programming of two freely selectable intermediate positions
- Single or central control unit
- Metal ring for attachment to key ring

Item no. 4034 000 225 1	
Colour	Black
Rated voltage	3 V/DC
Battery type	CR 2032
Degree of protection	IP20
Permissible ambient temperature	–10 to +55 °C
Radio frequency	868,3 MHz

Dimensions



Functional principle – typical wiring diagrams



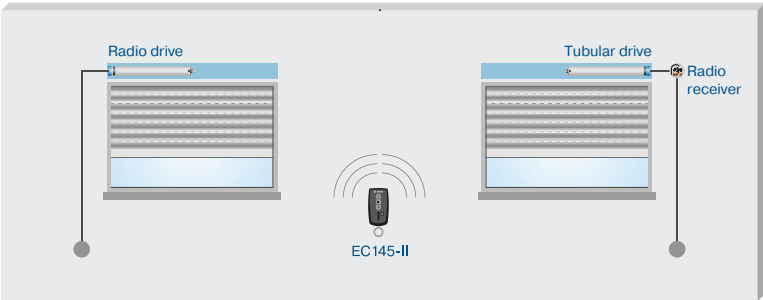
### EasyControl EC145-II

5-channel hand-held transmitter



- 5 channels with LED display
- Enables the programming of two freely selectable intermediate positions
- Single, group or central control unit
- Metal ring for attachment to key ring

Item no. 4034 000 226 1	
Colour	Black
Rated voltage	3 V/DC
Battery type	CR 2032
Degree of protection	IP20
Permissible ambient temperature	–10 to +55 °C
Radio frequency	868,3 MHz







# Centronic radio control units

## Radio transmitters

### EasyControl EC241-II

1-channel hand-held transmitter



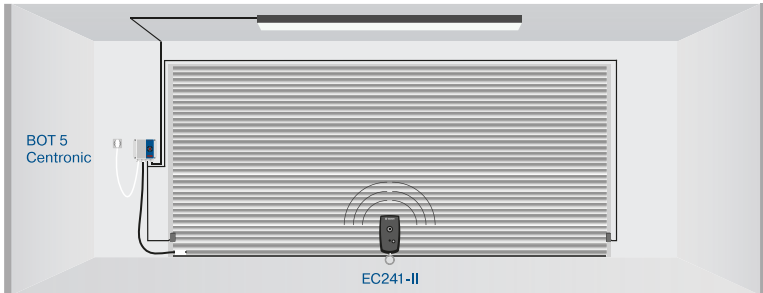
- Hand-held transmitter for controlling a Beck-O-Tronic 5 Centronic and VC280-II
- 1 channel with LED display
- Metal ring for attachment to key ring

Item no. 4034 000 227 1	
Colour	Black
Rated voltage	3 V/DC
Battery type	CR 2032
Degree of protection	IP20
Permissible ambient temperature	-10 to +55 °C
Radio frequency	868,3 MHz

Dimensions



Functional principle – typical wiring diagrams



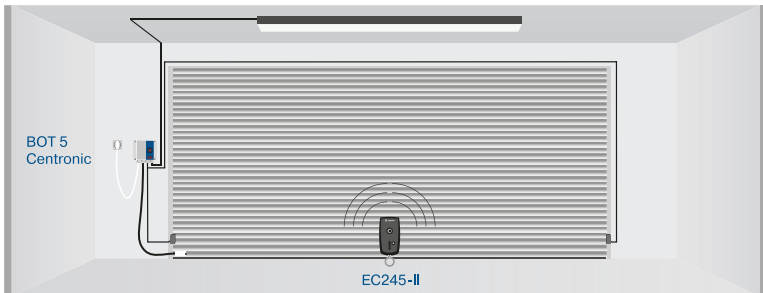
### EasyControl EC245-II

5-channel hand-held transmitter



- Hand-held transmitter for controlling a Beck-O-Tronic 5 Centronic and VC280-II
- 5 channels with LED display
- Metal ring for attachment to key ring

Item no. 4034 000 228 1	
Colour	Black
Rated voltage	3 V/DC
Battery type	CR 2032
Degree of protection	IP20
Permissible ambient temperature	-10 to +55 °C
Radio frequency	868,3 MHz



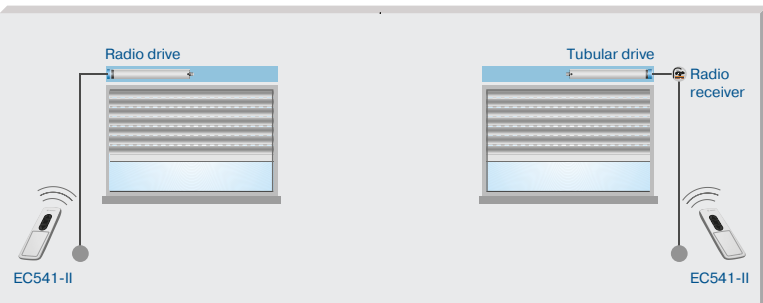
### EasyControl EC541-II

1-channel hand-held transmitter



- Enables the programming of two freely selectable intermediate positions
- Wall bracket with rear labelling panel
- Single or central control unit

Item no. 4034 000 201 0 (white)	
Item no. 4034 000 201 1 (black)	
Colour	White / Black
Rated voltage	3 V/DC
Battery type	CR 2430
Degree of protection	IP20
Permissible ambient temperature	-10 to +55 °C
Radio frequency	868,3 MHz







# Centronic radio control units

## Radio transmitters

### EasyControl EC545-II

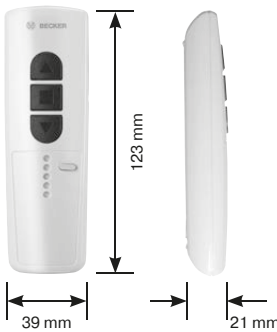
5-channel hand-held transmitter



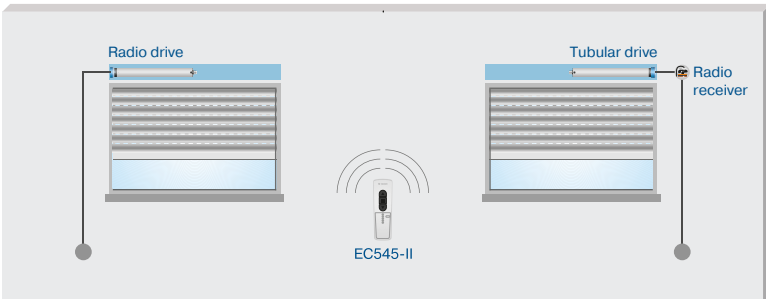
- 5 channels with LED display
- Enables the programming of two freely selectable intermediate positions
- Wall bracket with rear labelling panel
- Single, group or central control unit

Item no. 4034 000 202 0 (white)	
Item no. 4034 000 202 1 (black)	
Colour	White / Black
Rated voltage	3 V/DC
Battery type	CR 2430
Degree of protection	IP20
Permissible ambient temperature	-10 to +55 °C
Radio frequency	868,3 MHz

Dimensions



Functional principle – typical wiring diagrams



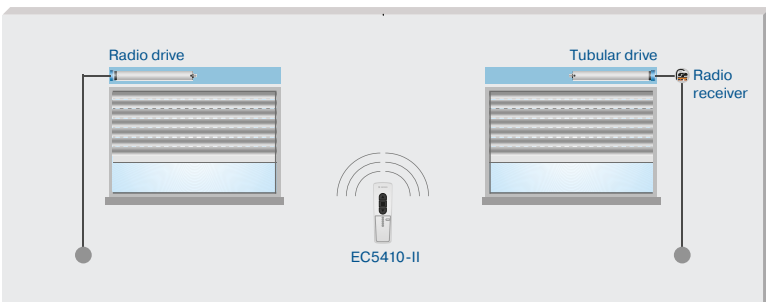
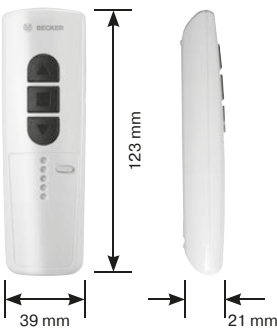
### EasyControl EC5410-II

10-channel hand-held transmitter



- Easy-to-read 10-channel display with 3-coloured LEDs
- Enables the programming of two freely selectable intermediate positions
- Wall bracket with rear labelling panel
- Single, group or central control unit

Item no. 4034 000 203 0 (white)	
Item no. 4034 000 203 1 (black)	
Colour	White / Black
Rated voltage	3 V/DC
Battery type	CR 2430
Degree of protection	IP20
Permissible ambient temperature	-10 to +55 °C
Radio frequency	868,3 MHz



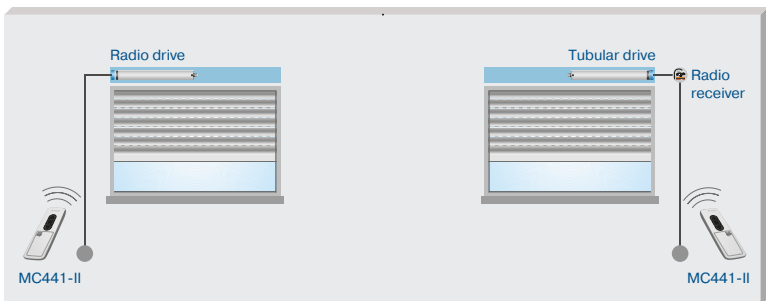
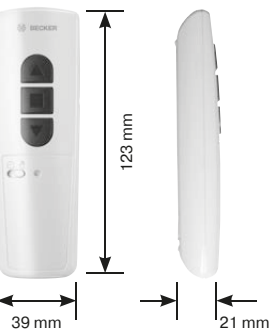
### MemoControl MC441-II

Hand-held transmitter with memory function



- Easy programming of two switching times (daily repetition)
- Switching times not lost when battery changed
- Slide switch for easy changing between manual and automatic mode
- Enables the programming of two freely selectable intermediate positions
- Wall bracket with rear labelling panel
- Single or central control unit

Item no. 4034 000 204 0 (white)	
Item no. 4034 000 204 1 (black)	
Colour	White / Black
Rated voltage	3 V/DC
Battery type	CR 2430
Degree of protection	IP20
Permissible ambient temperature	-10 to +55 °C
Radio frequency	868,3 MHz







# Centronic radio control units

## Radio transmitters

### EasyControl EC513

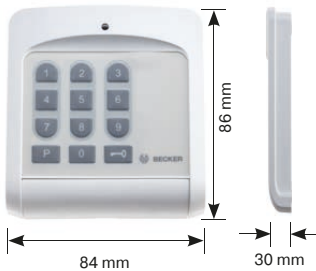
3-channel code button



- Drive commands are only performed once the correct opening code has been entered
- Simple wall mounting
- Individual code assignment possible
- Suitable for outdoor assembly
- Single or central control unit
- 3 channels can be controlled individually

Item no. 4034 000 043 0	
Colour	White
Rated voltage	3 V
Battery type	LR03 (AAA)
Degree of protection	IP54
Permissible ambient temperature	-15 to +60 °C
Radio frequency	868,3 MHz
Type of mounting	Surface-mounted

Dimensions



Connecting diagram

Functional principle – typical wiring diagrams



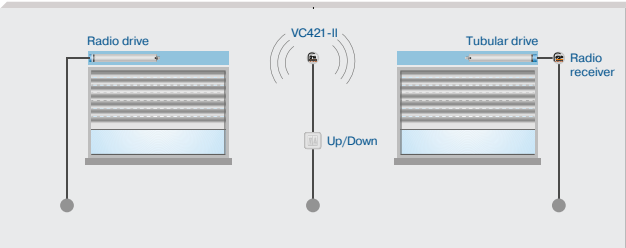
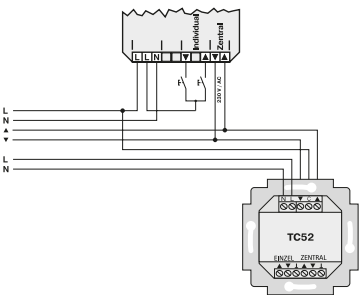
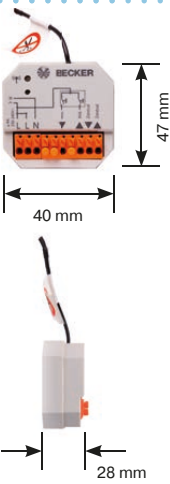
### VarioControl VC421-II

Flush-mounted radio transmitter



- Switch inputs allow Becker radio products to be operated using wired control units from other manufacturers
- Central inputs for compatible wired Centronic control units
- Single or central control unit

Item no. 4034 000 237 0	
Rated voltage	230 – 240 V/AC / 50 – 60 Hz
Degree of protection	IP20
Class of protection	II
Permissible ambient temperature	0 to +55 °C
Type of mounting	Device box according to DIN EN 49073 / DIN EN 60670
Radio frequency	868,3 MHz







# Centronic radio control units

## Radio transmitters

### SunWindControl SWC241-II

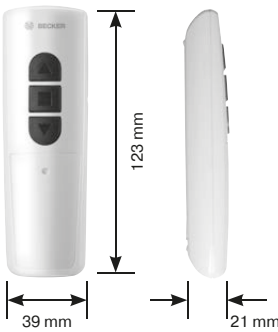
1-channel hand-held transmitter with wind threshold value setting

- Convenient setting of the wind threshold value at the transmitter
- Enables the programming of two freely selectable intermediate positions
- Wall bracket with rear labelling panel
- Single or central control unit

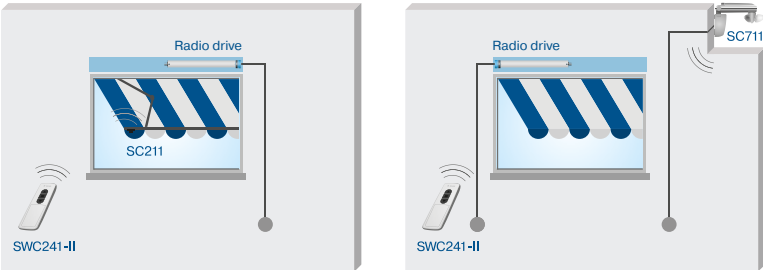


Item no. 4033 000 201 0 (white)	
Item no. 4033 000 201 1 (black)	
Colour	White / Black
Rated voltage	3 V/DC
Battery type	CR 2430
Degree of protection	IP20
Permissible ambient temperature	-10 to +55 °C
Radio frequency	868,3 MHz

Dimensions



Functional principle – typical wiring diagrams



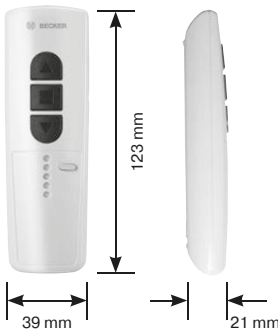
### SunWindControl SWC245-II

5-channel hand-held transmitter with wind threshold value setting

- 5 channels with LED display
- Convenient setting of the wind threshold value at the transmitter
- Enables the programming of two freely selectable intermediate positions
- Wall bracket with rear labelling panel
- Single or central control unit



Item no. 4033 000 213 0 (white)	
Item no. 4033 000 213 1 (black)	
Colour	White / Black
Rated voltage	3 V/DC
Battery type	CR 2430
Degree of protection	IP20
Permissible ambient temperature	-10 to +55 °C
Radio frequency	868,3 MHz







# Centronic radio control units

## Radio transmitters

### SunWindControl SWC441-II

Hand-held transmitter with sun/wind threshold value setting



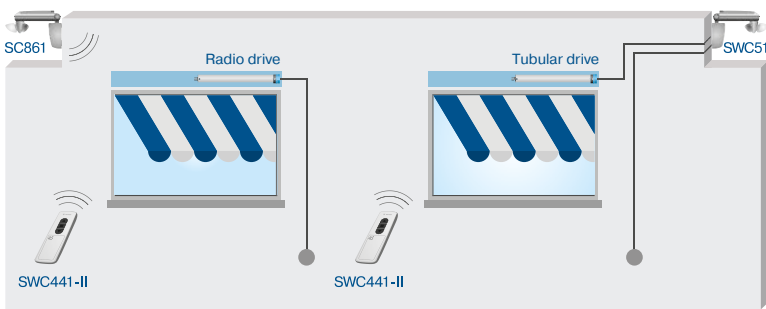
- Convenient setting of sun and wind threshold values at the transmitter
- Slide switch for easy changing between manual and automatic mode
- Enables the programming of two freely selectable intermediate positions
- Wall bracket with rear labelling panel
- Single or central control unit

Item no. 4033 000 202 0 (white)	
Item no. 4033 000 202 1 (black)	
Colour	White / Black
Rated voltage	3 V/DC
Battery type	CR 2430
Degree of protection	IP20
Permissible ambient temperature	-10 to +55 °C
Radio frequency	868,3 MHz

Dimensions



Functional principle – typical wiring diagrams



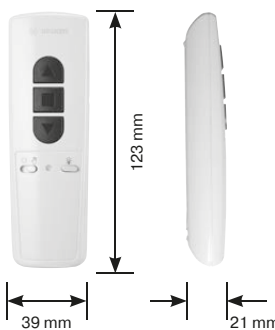
### SunWindControl SWC442-II

2-channel hand-held transmitter for sun, wind and light control



- Functions as the SWC441-II, but also includes:
- Light button (2nd channel) for ON/OFF switching and dimming (with VC220 radio dimmer) of lights and lighting systems

Item no. 4033 000 203 0 (white)	
Item no. 4033 000 203 1 (black)	
Colour	White / Black
Rated voltage	3 V/DC
Battery type	CR 2430
Degree of protection	IP20
Permissible ambient temperature	-10 to +55 °C
Radio frequency	868,3 MHz



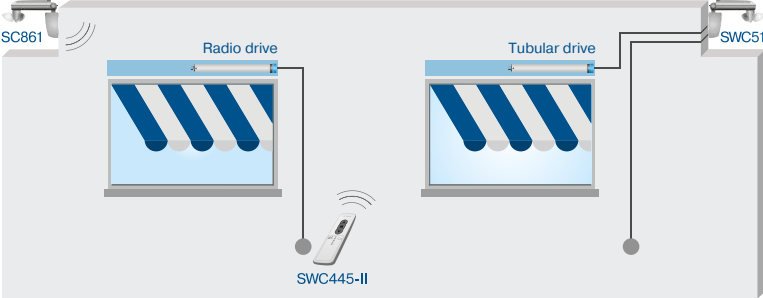
### SunWindControl SWC445-II

5-channel hand-held transmitter with sun and wind threshold value setting



- 5 channels with LED display
- Convenient setting of sun and wind threshold values at the transmitter
- Slide switch for easy changing between manual and automatic mode
- Enables the programming of two freely selectable intermediate positions
- Wall bracket with rear labelling panel
- Single or central control unit

Item no. 4033 000 214 0 (white)	
Item no. 4033 000 214 1 (black)	
Colour	White / Black
Rated voltage	3 V/DC
Battery type	CR 2430
Degree of protection	IP20
Permissible ambient temperature	-10 to +55 °C
Radio frequency	868,3 MHz







# Centronic radio control units

## Radio receivers

### UnitControl UC520

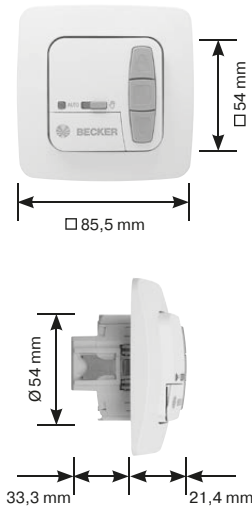
Single control unit with radio receiver\*



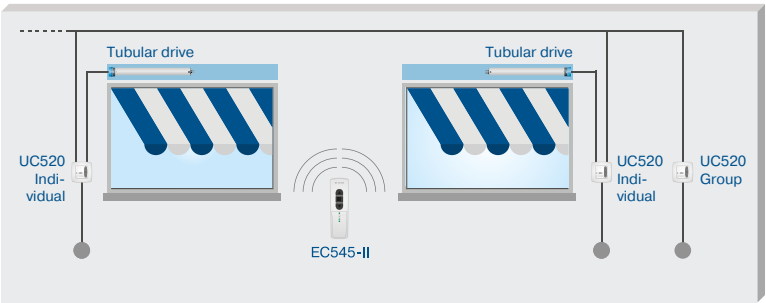
- Convenient setting of sun and wind threshold values at the transmitter
- Slide switch for easy changing between manual and automatic mode
- Enables the programming of two freely selectable intermediate positions
- Single or central control unit

Item no. 4031 000 002 0	
Rated voltage	230 – 240 V/AC / 50 – 60 Hz
Switching current	5 A / 230 V at cos φ = 1
Degree of protection	IP20
Class of protection	II
Permissible ambient temperature	0 to +55 °C
Type of mounting	Device box according to DIN EN 49073 / DIN EN 60670
Radio frequency	868,3 MHz

Dimensions



Functional principle – typical wiring diagrams



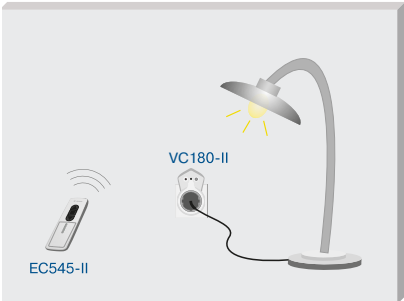
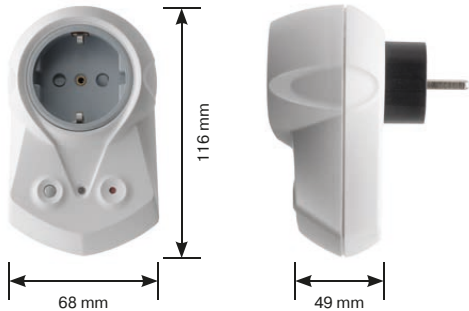
### VarioControl VC180-II

Radio socket



- Switches various different 230 V plug-in devices ON/OFF
- Enables reduction of standby current consumption
- Timed ON/OFF switching of powered devices
- Enables switching between scenes
- Can be programmed to recognise up to 15 Centronic transmitters
- Control button on the device

Item no. 4034 000 222 0	
Colour	Alpine white
Rated voltage	230 – 240 V/AC / 50 Hz
Powered unit connection	I <sub>max</sub> . 16 A / 230 – 240 V cos φ = 1
Degree of protection	IP20
Permissible ambient temperature	–20 to +35 °C
Radio frequency	868,3 MHz



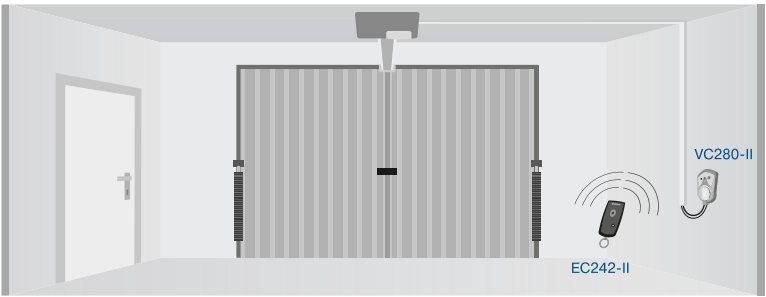
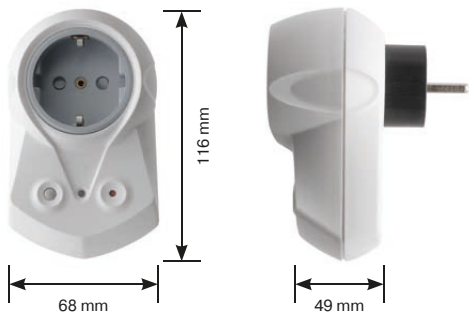
### VarioControl VC280-II

Radio socket with pulse output



- Operation of any 230 V door drives with pulse input
- Control button on the device
- Can be programmed to recognise up to 15 Centronic transmitters

Item no. 4034 000 223 0	
Colour	Alpine white
Rated voltage	230 – 240 V/AC / 50Hz
Powered unit connection	I <sub>max</sub> . 16 A / 230 – 240 V cos φ = 1
Floating pulse output	U <sub>max</sub> 42 V; I <sub>max</sub> 1 A DC
Degree of protection	IP20
Class of protection	II
Permissible ambient temperature	–20 to +35 °C
Radio frequency	868,3 MHz



\* Note: Adapter frames can be found on page 154.





# Centronic radio control units

## Radio receivers

### VarioControl VC220

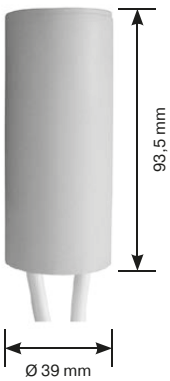
Radio dimmer for lighting equipment



- ON/OFF switching and dimming of lamps
- Single, group and central control of lamps and lighting equipment
- Special sun protection hand-held transmitter SWC442-II with separate light/dimmer switch available
- Can be programmed to recognise up to 16 Centronic transmitters

Item no. 4034 000 016 0	
Rated voltage	230 – 240 V/AC/ 50 Hz
Powered unit connection	400 W cos φ = 1
Degree of protection	IP44
Class of protection	II (when properly installed)
Permissible ambient temperature	–25 to +55 °C
Radio frequency	868,3 MHz
Type of mounting	In the sun protection system

Dimensions



Functional principle – typical wiring diagrams



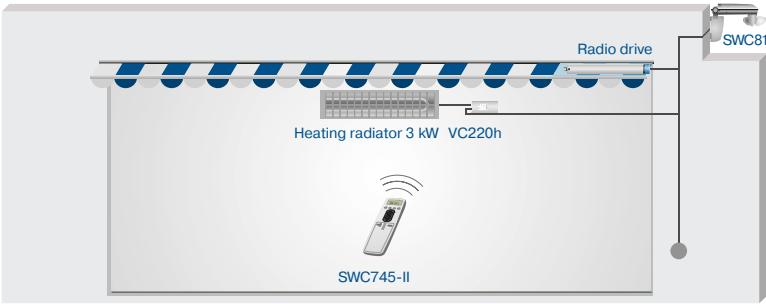
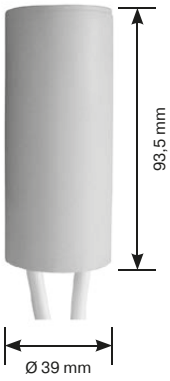
### VarioControl VC220h

Radio switch for heaters



- Switching heaters up to 3.000 W
- Time-controlled switch-off of the heating function in two stages at 60/120 min.
- Can be programmed to recognise up to 16 Centronic transmitters

Item no. 4034 000 039 0	
Rated voltage	230 – 240 V/AC/ 50 Hz
Powered unit connection	3000 W cos φ = 1
Degree of protection	IP44
Class of protection	II (when properly installed)
Permissible ambient temperature	–25 to +55 °C
Radio frequency	868,3 MHz
Power line	0,5 m
Device cable	1,0 m







# Centronic radio control units

## Radio receivers

### VarioControl VC210 and VC310

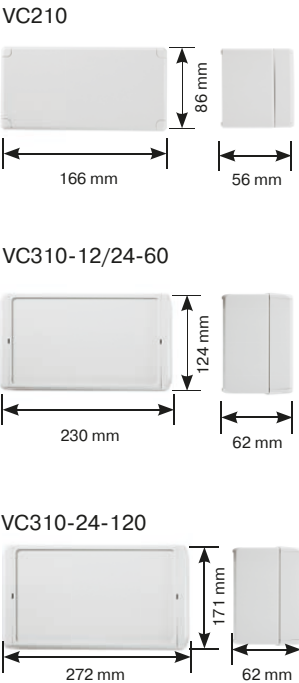
LED dimmer and terrace heater switch



- Suitable for outdoor assembly
- Simple wall mounting
- For switching radiant heaters (terrace heaters) up to 3000 W
- Suitable for dimming LEDs with 12 V or 24 V
- Motor can be connected to the mains in the control unit housing
- Dimming of lights and switching of heaters performed separately via individual radio channel
- VC210 requires a PWM power supply unit
- VC310 versions already have an integrated power supply unit

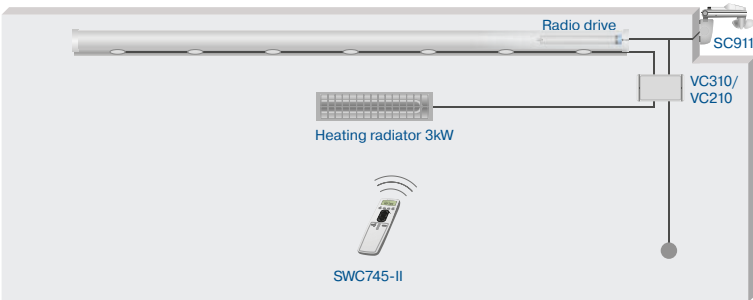
Item no. VC210 4034 000 044 0 Item no. VC310-12-60 4034 000 045 0 Item no. VC310-24-60 4034 000 046 0 Item no. VC310-24-120 4034 000 047 0	
Colour	Grey
Rated voltage	230-240 V/AC
LED voltage	12 V (VC310-12-60) or 24 V (VC310-24-60, VC310-24-120)
Degree of protection	IP44
Permissible ambient temperature	-25 to +55 °C
Radio frequency	868,3 MHz
Type of mounting	Surface-mounted
Max. switching power for radiant heater (terrace heater)	3.000 W
Max. dimming output for LEDs	Depending on selected power supply unit (VC210) 60 W (VC310-12-60 and VC310-24-60) 120 W (VC310-24-120)

#### Dimensions



#### Connecting diagram

#### Functional principle – typical wiring diagrams



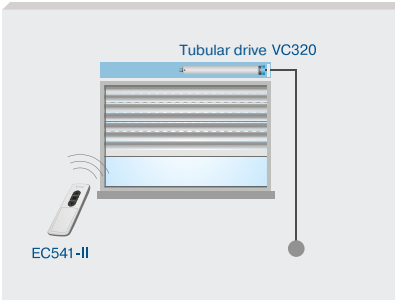
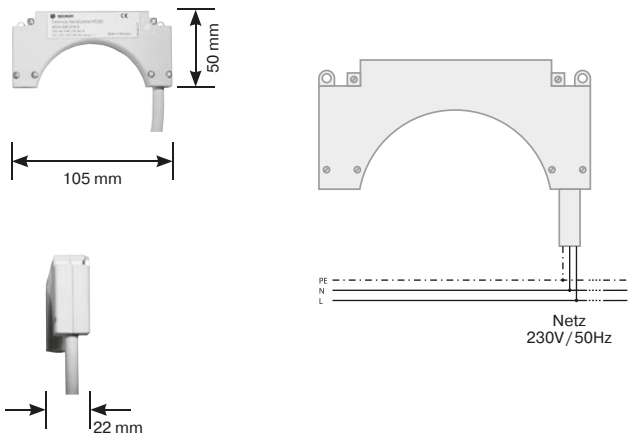
### VarioControl VC320

Flush-mounted radio receiver



- Compact design ideal for mounting in the shutter box
- Programming and setting up of groups possible without having to access the receiver
- Programmable memory switching time
- Can be combined with the SC431-II light sensor
- Enables the programming of two freely selectable intermediate positions
- Can be programmed to recognise up to 16 Centronic transmitters

Item no. 4034 000 012 0	
Rated voltage	230 – 240 V/AC / 50 – 60 Hz
Switching current	5 A / 230 V at cos φ = 1
Degree of protection	IP42
Class of protection	II
Permissible ambient temperature	-25 to +55 °C
Type of mounting	In shutter box
Radio frequency	868,3 MHz







# Centronic radio control units

## Radio receivers

### VarioControl VC470-II

Plug-in radio receiver



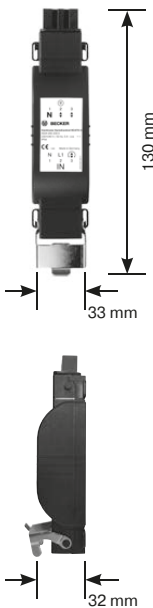
- Awning and blind mode
- Standardised plug connection
- Intermediate and turnover position
- Memo function
- Storage of threshold value
- Adjustable direction of rotation
- Compatible with the SC211 awning movement sensor

Item no. 4034 000 212 0	
Rated voltage	230 V/AC / 50Hz
Switching current	5A / 230 – 240 V at cos φ = 1
Degree of protection	IP54
Class of protection	II (when properly installed)
Permissible ambient temperature	–25 to +55 °C
Type of mounting	In or on head rail
Radio frequency	868,3 MHz

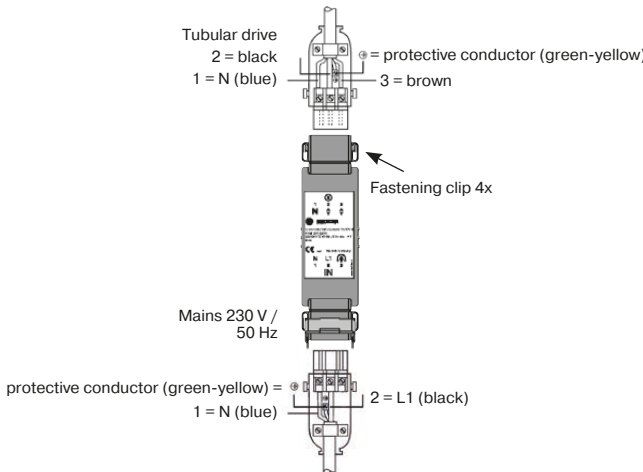
Surface-mounted housing for VC470-II

Item no. 4034 000 212 0	
Colour	White
Dimensions (W x H x D)	327 x 50 x 50 mm

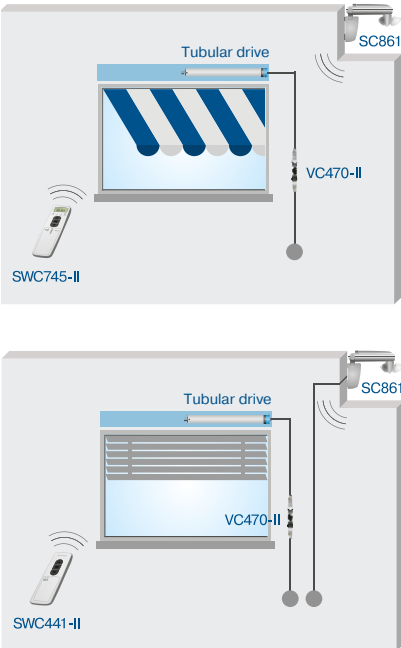
Dimensions



Connecting diagram



Functional principle – typical wiring diagrams





# Centronic radio control units

## Radio sensors

### SensorControl SC431-II

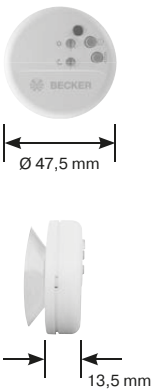
Radio light sensor



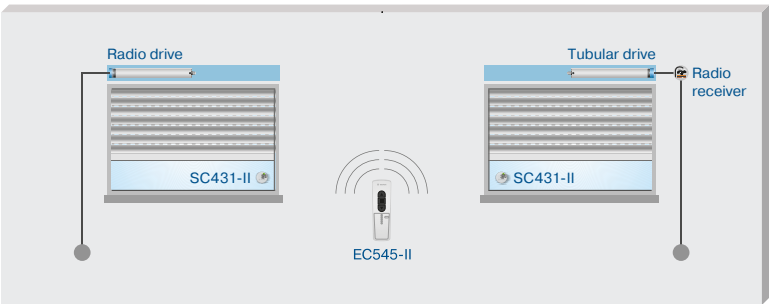
- Shade and twilight function
- Integrated glass breakage sensor
- Combined UP/STOP/DOWN travel button
- All operator controls can be accessed without opening the housing
- Easy mounting on the window pane

Item no. 4034 000 205 0	
Colour	Alpine white
Battery type	CR 2032
Degree of protection	IP20
Permissible ambient temperature	0 to +55 °C
Radio frequency	868,3 MHz

Dimensions



Connecting diagram



Functional principle – typical wiring diagrams

### SensorControl SC211-II\*

Awning radio movement sensor

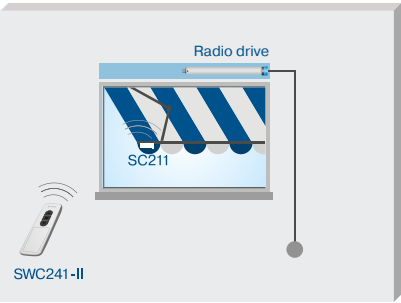
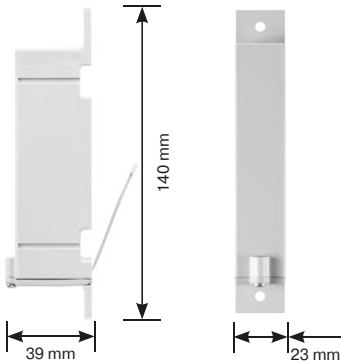


- Sensor specially for articulated-arm awning\*
- Discrete mounting directly on front section
- Optimum monitoring of wind movements directly on the front section of the awning
- Tilt sensor safeguards the awning against overloads, such as those caused by water collection
- Convenient setting of wind threshold values at the transmitter (e. g. SWC241-II)
- Can be combined with solar sun sensor SC561

Item no. 4033 000 210 0	
Colour	White
Rated voltage	3 V/DC
Battery type	LR03 (AAA)
Degree of protection	IP44
Permissible ambient temperature	–25 to +55 °C
Type of mounting	Directly on the front section
Radio frequency	868,3 MHz

Conversion kit for black SC211-II housing

Item no. 4033 200 227 1
-------------------------



**Note:** \* The SC211-II is intended solely for the operation of an open, half-closed (semi-cassette), or fully closed (cassette) articulated-arm awning.





# Centronic radio control units

## Radio sensors

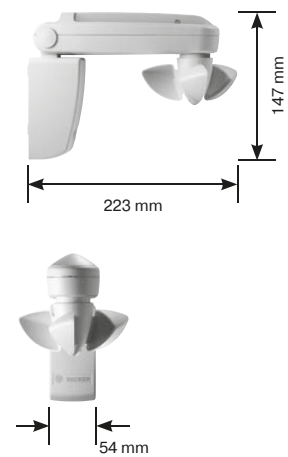
### SunWindControl SWC510\*

Sun-wind sensor with integrated radio receiver

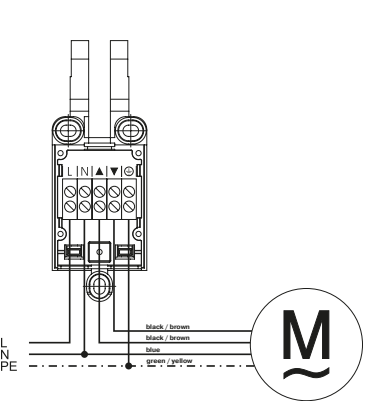
- Ideal for retrofitting a wired sun protection drive with radio control unit and sun/wind monitoring
- Convenient setting of sun and wind threshold values at the transmitter (e.g. SWC441-II)
- Adjustable sensor foot for optimum mounting
- Universally applicable for exterior sun protection
- Single or central control unit

Item no. 4033 000 022 0	
Colour	Light grey
Switching current	5A/ 230 – 240 V at cos φ = 1
Degree of protection	IP44
Permissible ambient temperature	–25 to +55 °C
Radio frequency	868,3 MHz

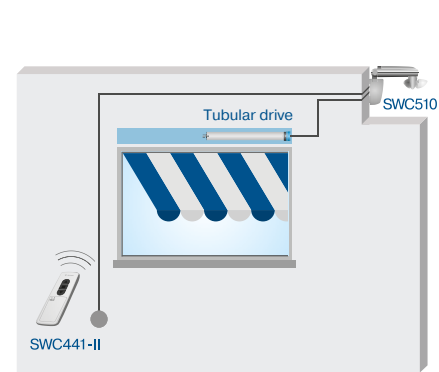
Dimensions



Connecting diagram



Functional principle – typical wiring diagrams

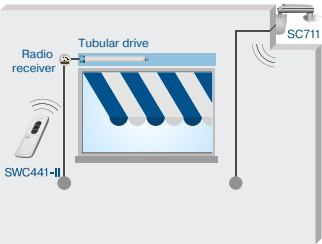
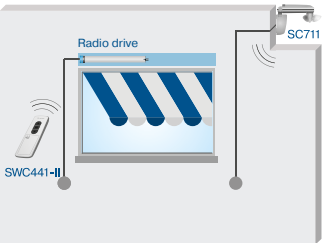
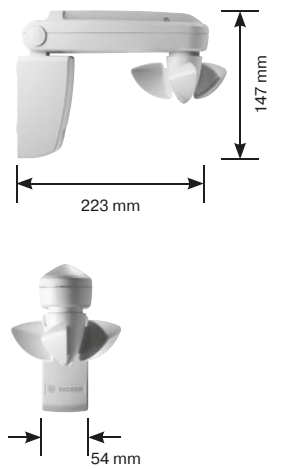


### SensorControl SC711\*

Radio wind sensor

- Convenient setting of wind threshold values at the transmitter (e.g. SWC241-II)
- Adjustable sensor foot for optimum mounting
- Universally applicable for exterior sun protection
- Single or central control unit

Item no. 4033 000 036 0	
Colour	Light grey
Degree of protection	IP44
Permissible ambient temperature	–25 to +55 °C
Radio frequency	868,3 MHz

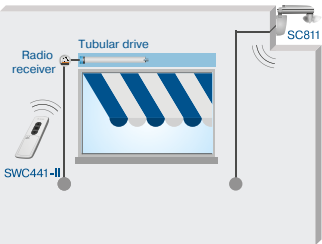
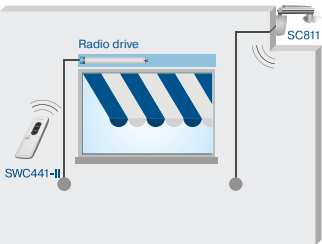
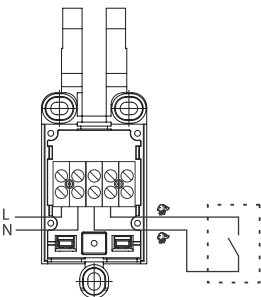
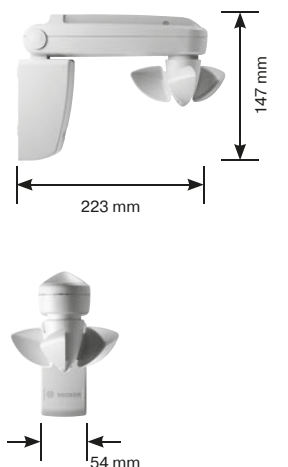


### SensorControl SC811\*

Radio sun/wind sensor

- Convenient setting of sun and wind threshold values at the transmitter (e.g. SWC441-II)
- Adjustable sensor foot for optimum mounting
- Universally applicable for exterior sun protection
- Single or central control unit
- Optional: Supports connection of rain sensor

Item no. 4033 000 020 0	
Colour	Light grey
Degree of protection	IP44
Permissible ambient temperature	–25 to +55 °C
Radio frequency	868,3 MHz



Note: \* Installation brackets can be found on Page 148.





# Centronic radio control units

## Radio sensors

### SensorControl SC561\*

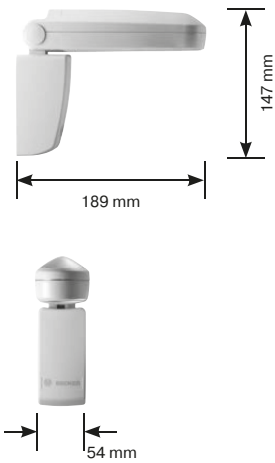
Solar radio sun sensor



- With integrated solar power supply, there is no need to lay cables to the main power supply
- Convenient setting of sun threshold values at the transmitter (e.g. SWC441-II)
- Adjustable sensor foot for optimum mounting
- Universally applicable for exterior sun protection
- Single or central control unit

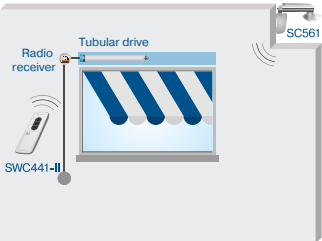
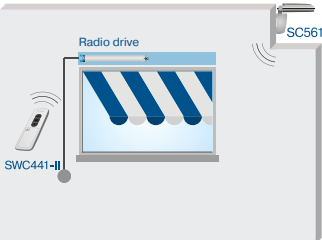
Item no. 4033 000 029 0	
Colour	Light grey
Degree of protection	IP44
Permissible ambient temperature	-25 to +55 °C
Radio frequency	868,3 MHz

#### Dimensions



#### Connecting diagram

#### Functional principle – typical wiring diagrams



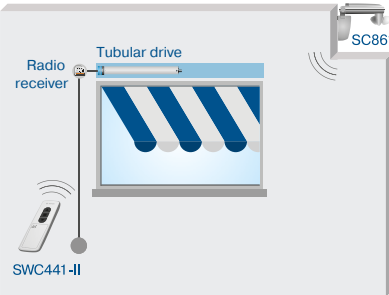
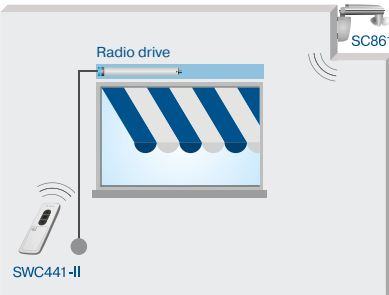
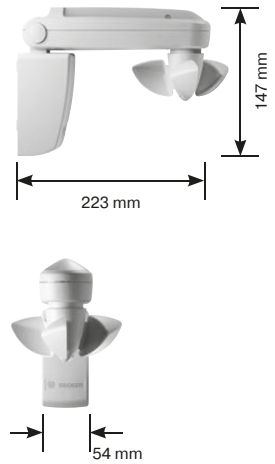
### SensorControl SC861\*

Solar radio sun/wind sensor



- With integrated solar power supply, there is no need to lay cables to the main power supply
- Convenient setting of sun and wind threshold values at the transmitter (e.g. SWC441-II)
- Adjustable sensor foot for optimum mounting
- Can be used with exterior sun protection systems that do not serve as screening
- Single or central control unit

Item no. 4033 000 021 0	
Colour	Light grey
Degree of protection	IP44
Permissible ambient temperature	-25 to +55 °C
Radio frequency	868,3 MHz



**Note:** \*Installation brackets can be found on Page 148.





# Centronic radio control units

## Radio sensors

### SensorControl SC911\*

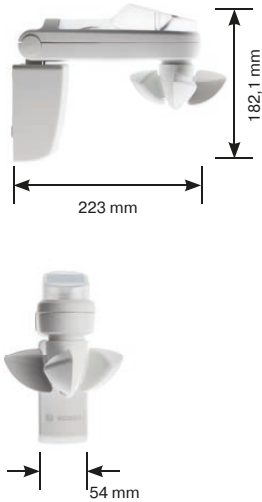
Radio sun/wind/rain sensor



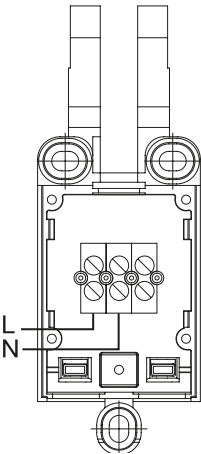
- Integrated rain sensor
- Convenient setting of sun and wind threshold values at the transmitter (e.g. SWC441-II)
- Adjustable sensor foot for optimum mounting
- Universally applicable for exterior sun protection
- Single or central control unit

Item no. 4033 000 043 0	
Colour	Light grey
Degree of protection	IP44
Permissible ambient temperature	-25 to +55 °C
Radio frequency	868,3 MHz

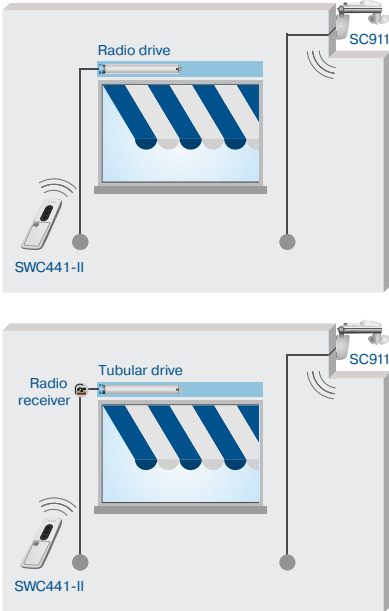
Dimensions



Connecting diagram



Functional principle – typical wiring diagrams



**Note:** \* Installation brackets can be found on Page 155.





# Centronic radio control units

## Radio sets

### SunVarioSet SVS241-II

Hand-held transmitter with radio receiver

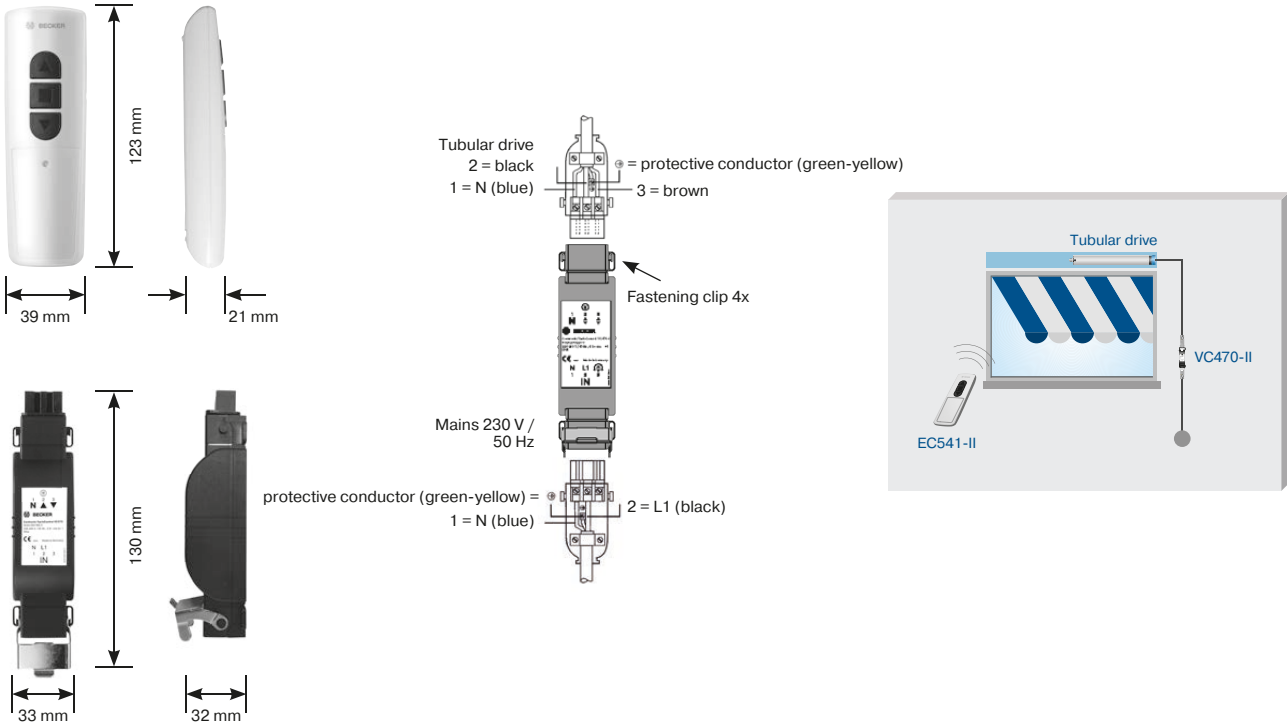
- Simple radio retrofitting of a motorised sun protection system
- Receiver with standardised plug connection
- Awning and blind mode
- Sun/wind sensors are easy to retrofit
- Enables the programming of two freely selectable intermediate positions
- Direction of rotation easy to reverse

Item no. 4033 000 212 0		
	EC541-II	VC470-II
Colour	White	Light grey
Rated voltage	3 V/DC	230 V/AC / 50 Hz
Switching current	–	5A/ 230 – 240 V at cos φ = 1
Battery type	CR2430	–
Degree of protection	IP20	IP20
Class of protection	II (when properly installed)	II (when properly installed)
Permissible ambient temperature	–10 to +55 °C	–25 to +55 °C
Type of mounting	Including wall bracket	In or on head rail, surface-mounted housing available on request
Radio frequency	868,3 MHz	868,3 MHz

Dimensions

Connecting diagram

Functional principle – typical wiring diagrams







# Centronic radio control units

## Radio sets

### SunWindSet SWS241-II

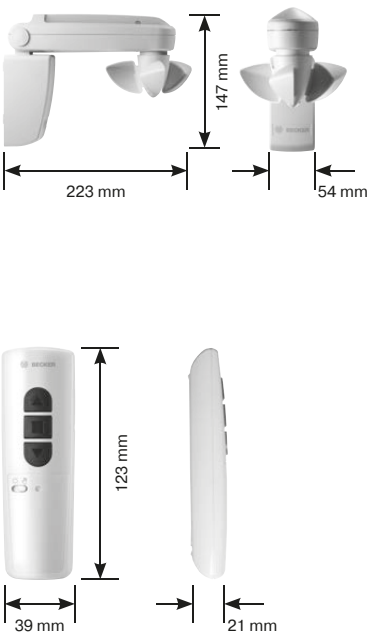
Sun/wind control unit with integrated radio receiver with hand-held transmitter for wired drives



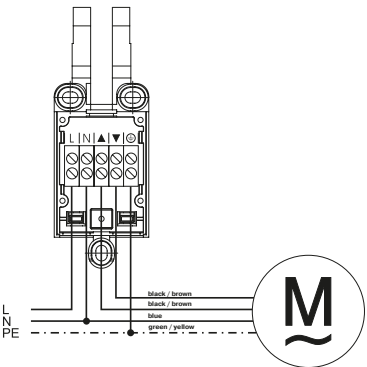
- Convenient setting of sun and wind threshold values at the transmitter (e.g. SWC441-II)
- Slide switch for easy changing between manual and automatic mode
- Sun and wind sensor with integrated radio receiver
- Ideal for retrofitting a wired sun protection drive with radio control unit and automatic sun protection/wind monitoring
- Adjustable sensor foot for optimum mounting
- Universally applicable for exterior sun protection
- Single or central control unit

Item no. 4033 000 207 0		
	SWC441-II	SWC510
Colour	White	Light grey
Rated voltage	3 V/DC	–
Battery type	CR 2430	–
Switching current	–	5 A / 230-240 V AC at cos φ = 1
Degree of protection	IP20	IP44
Permissible ambient temperature	–10 to +55 °C	–25 to +55 °C
Radio frequency	868,3 MHz	868,3 MHz

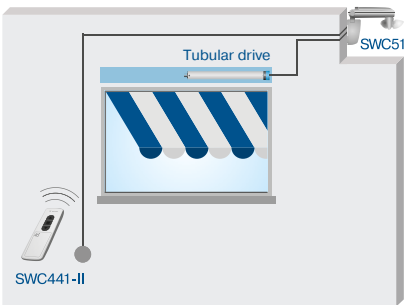
Dimensions



Connecting diagram



Functional principle – typical wiring diagrams



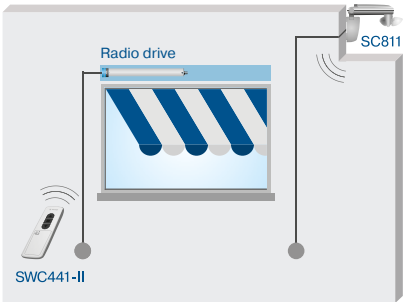
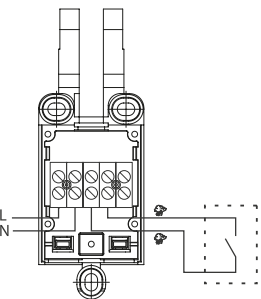
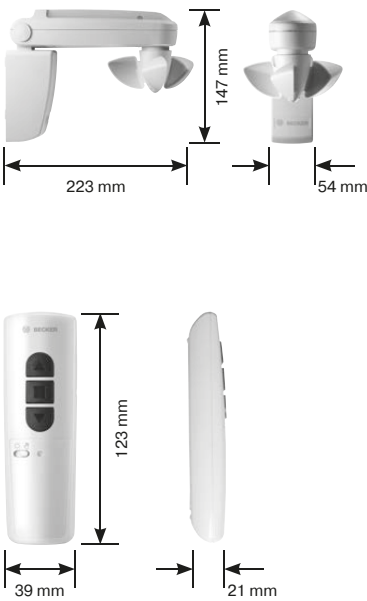
### SunWindSet SWS441-II

Radio sun/wind sensor with hand-held transmitter



- For controlling a radio drive or an external radio receiver
- Convenient setting of sun and wind threshold values at the transmitter (e.g. SWC441-II)
- Slide switch for easy changing between manual and automatic mode
- Adjustable sensor foot for optimum mounting
- Universally applicable for exterior sun protection
- Single or central control unit
- Sensor for 230 V mains connection
- Optional: Supports connection of rain sensor

Item no. 4033 000 208 0		
	SWC441-II	SC811
Colour	White	Light grey
Rated voltage	3 V/DC	–
Battery type	CR 2430	–
Degree of protection	IP20	IP44
Permissible ambient temperature	–10 to +55 °C	–25 to +55 °C
Radio frequency	868,3 MHz	868,3 MHz



Note: \* Installation brackets can be found on Page 155.





# Centronic radio control units

## Radio sets

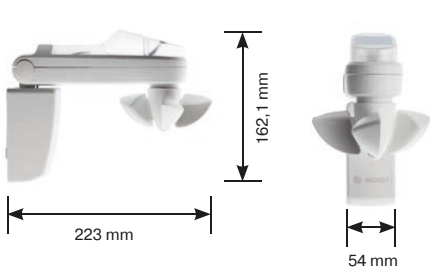
### SunWindSet SWS541-II

Radio sun/wind/rain sensor with hand-held transmitter

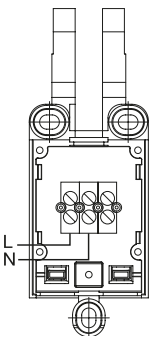
- For controlling a radio drive or an external radio receiver
- Convenient setting of sun and wind threshold values at the transmitter (e.g. SWC441-II)
- Slide switch for easy changing between manual and automatic mode
- Integrated rain sensor
- Adjustable sensor foot for optimum mounting
- Universally applicable for exterior sun protection
- Single or central control unit

Item no. 4033 000 215 0		
	SWC441-II	SC911
Colour	White	Light grey
Rated voltage	3 V/DC	–
Battery type	CR 2430	–
Degree of protection	IP20	IP44
Permissible ambient temperature	–10 to +55 °C	–25 to +55 °C
Radio frequency	868,3 MHz	868,3 MHz

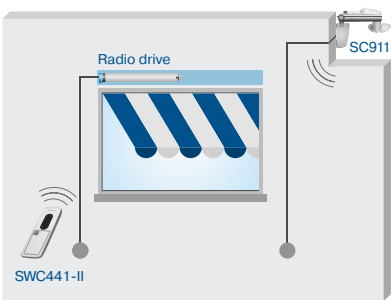
Dimensions



Connecting diagram



Functional principle – typical wiring diagrams

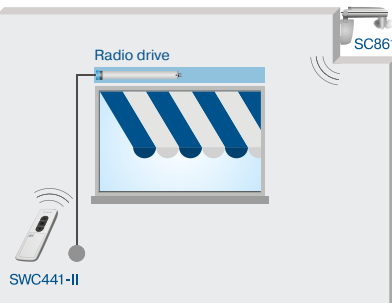
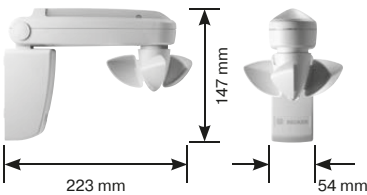
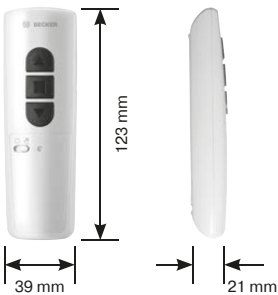


### SunWindSet SWS641-II

Solar radio sun/wind sensor with hand-held transmitter

- For controlling a radio drive or an external radio receiver
- Convenient setting of sun and wind threshold values at the transmitter (e.g. SWC441-II)
- Slide switch for easy changing between manual and automatic mode
- With integrated solar power supply, there is no need to lay cables to the main power supply
- Adjustable sensor foot for optimum mounting
- Can be used with exterior sun protection systems that do not serve as screening
- Single or central control unit

Item no. 4033 000 209 0		
	SWC441-II	SC861
Colour	White	Light grey
Rated voltage	3 V/DC	–
Battery type	CR 2430	–
Degree of protection	IP20	IP44
Permissible ambient temperature	–10 to +55 °C	–25 to +55 °C
Radio frequency	868,3 MHz	868,3 MHz



Note: \* Installation brackets can be found on Page 155.





# Centronic radio control units

Beck-O-Tronic – roller door control units for tubular drives

## Beck-O-Tronic 5 Centronic



- Door control unit for controlling a tubular drive with mechanical or electronic limit switching
- Integrated button and hand-held transmitter included with UP, STOP and DOWN step sequence
  - Push-button input with UP, STOP and DOWN step sequence
  - Hoflicht anschliebar
  - 230 V light barrier can be connected (Item no. 4906 000 116 0)
  - Reverse travel on detection of an obstacle
  - Electrical or optical safety contact edges can be connected
  - External control sensor, e. g. key-operated push button, can be connected
  - Centronic-compatible
  - Including mains plug
  - EC241-II hand-held transmitter included

Item no. 4005 000 105 0	
Dimensions (W x H x D)	155x130x52 mm
Mains connection	230 V/50 Hz
Degree of protection	IP20, indoor installation
Loading capacity	360 VA
Type of mounting	Surface-mounted



## Beck-O-Tronic 6 Centronic



- Door control unit for controlling a tubular drive with mechanical or electronic limit switching
- Parameterisable inputs and outputs
  - Separate command inputs for UP, STOP and DOWN
  - 12 V/DC output for light barriers (Item no. 4906 000 117 0)
  - 230 V light barrier can be connected (Item no. 4906 000 116 0)
  - Two safety inputs
  - All conventional types of safety edge can be connected
  - Centronic radio transmitter can be programmed (UP, STOP and DOWN separately and UP/STOP/DOWN as an impulse)
  - TÜV type-tested
  - EC141-II hand-held transmitter included

Item no. 4005 000 201 0	
Dimensions (W x H x D)	155x130x50 mm
Mains connection	230 V/50 Hz
Degree of protection	IP54, indoor installation
Control voltage	12 V/DC
Control power	max. 300 mA
Weight (without connecting cable)	approx. 0,5 kg
Permissible ambient temperature	–20 °C to +50 °C

Beck-O-Tronic 6 with 40 MHz and 4-channel hand-held transmitter, Mini

Item no. 4005 000 202 0
-------------------------







# CentronicPLUS radio control units



## Radio transmitters

### EasyControl EC541 PLUS, EC548 PLUS, EC5416 PLUS

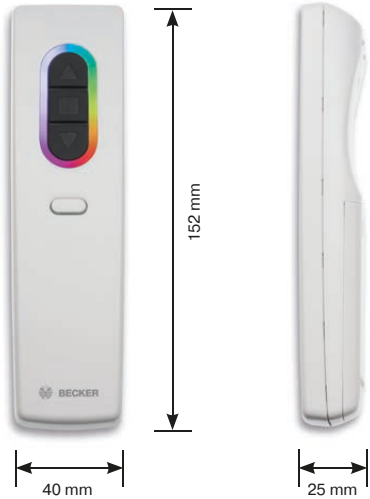
1-, 8- or 16-channel hand-held transmitter



- Compatible with CentronicPLUS radio system
- Available as 1-, 8- and 16-channel hand-held transmitter
- High-security, encrypted radio transmission
- Multicolour display (10-segment) for simple status feedback, setting and start-up
- Optical operating feedback
- Simple group setup and automatically created central channels
- Automatic hiding of unused channels
- Two freely selectable intermediate positions per drive - retrieved by pressing the button twice
- Simple start-up by automatic selection of the nearest drive/receiver
- Automatic charging detection when battery is changed
- Wall bracket included

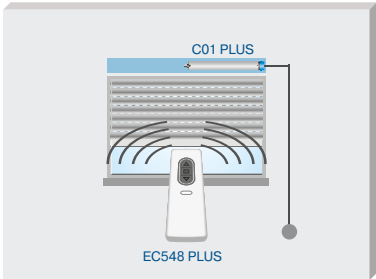
EC541 PLUS Item no. 4036 000 002 0	
EC548 PLUS Item no. 4036 000 003 0	
EC5416 PLUS Item no. 4036 000 004 0	
Colour	White
Rated voltage	3 V / DC
Battery type	AA
Degree of protection	IP20
Permissible ambient temperature	-10 to +55 °C
Radio frequency	868,3 MHz

## Dimensions



## Connecting diagram

## Functional principle – typical wiring diagrams



## Radio receivers

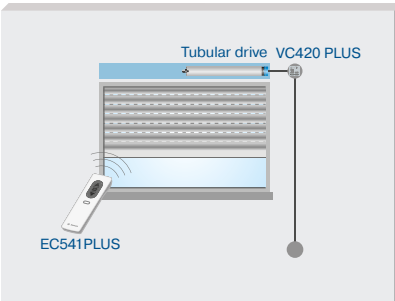
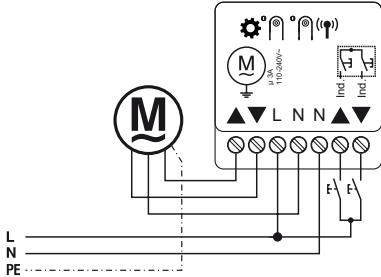
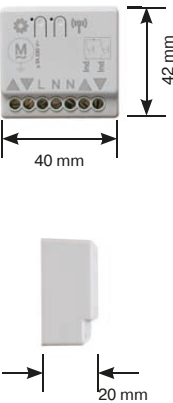
### VarioControl VC420 PLUS

Flush-mounted radio receiver



- Any kind of button can be connected
- Can be used as a lighting control unit
- Bidirectional radio receiver: The control unit reports its position and status information back to the control unit
- Blind mode: Exact adjustment of blind slats in touch mode
- Mesh technology ensures automatic networking of all devices to form a powerful network
- Enables programming of 2 freely selectable intermediate positions
- Can be programmed to recognise up to 16 Centronic transmitters

Item no. 4036 000 008 0	
Rated voltage	110 – 240 V/AC/50 Hz
Switching current	3A/ 110 - 240 V/AC at cos φ = 1
Degree of protection	IP20
Permissible ambient temperature	-25 to +50 °C
Type of mounting	Device box according to DIN EN 49073 / DIN EN 60670
Radio frequency	868,3 MHz



BECKER





# CentronicPLUS radio control units

## Radio receivers

### VarioControl VC520 PLUS

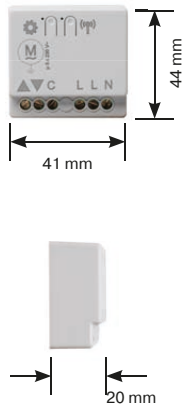
Floating radio receiver



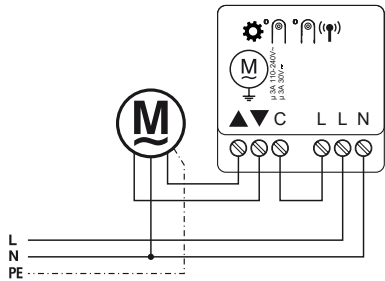
- Potential-free connection is possible
- Blind mode: Exact adjustment of blind slats in touch mode
- Enables programming of 2 freely selectable intermediate positions
- Can be programmed to recognise up to 16 Centronic transmitters
- Mesh technology ensures automatic networking of all devices to form a powerful network
- Bidirectional radio receiver: The control unit reports its position and status information back to the control unit

Item no. 4036 000 013 0	
Rated voltage	110 – 240 V/AC / 50 – 60 Hz
Switching current	3A / 110 - 240 V/AC 3A / 30 V/DC
Degree of protection	IP20
Permissible ambient temperature	–25 to +50 °C
Type of mounting	Device box according to DIN EN 49073 / DIN EN 60670
Radio frequency	868,3 MHz

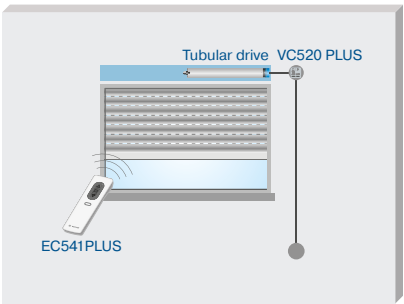
Dimensions



Connecting diagram



Functional principle – typical wiring diagrams



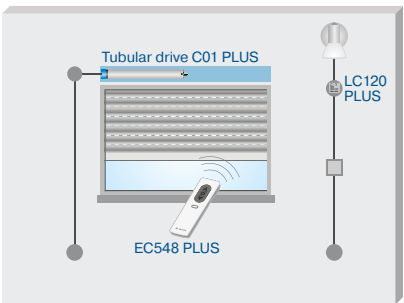
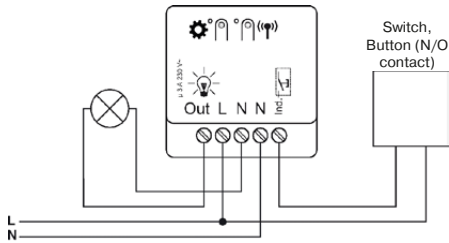
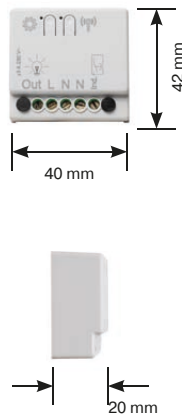
### LightControl LC120 PLUS

Flush-mounted switching actuator



- Any switch/push-button can be connected
- Can be used as a lighting control unit
- Centronic-compatible
- Bidirectional radio receiver: The control unit feeds its current switching state and status information back to the operator unit
- Mesh technology ensures automatic networking of all devices to form a powerful network

Item no. 4036 000 014 0	
Rated voltage	110 – 240 V/AC / 50 Hz
Switching current	3 A / 110 - 240 V/AC at cos φ = 1
Degree of protection	IP20
Class of protection	II
Permissible ambient temperature	–25 to +50 °C
Type of mounting	Device box according to DIN EN 49073 / DIN EN 60670
Radio frequency	868,3 MHz







# CentronicPLUS radio control units



## Radio transmitters

### SunWindControl SWC541 PLUS, SWC548 PLUS, SWC5416 PLUS

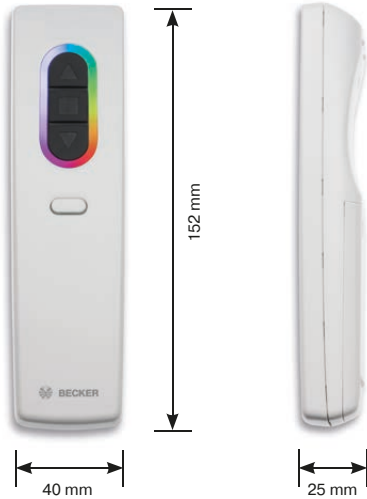
1-, 8- or 16-channel hand-held transmitter



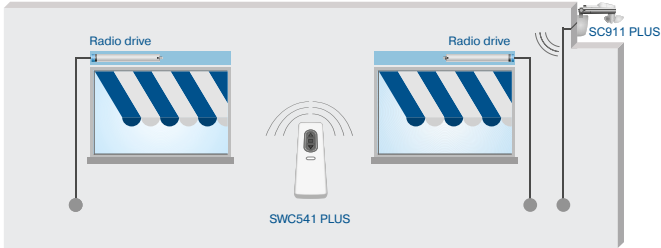
- Compatible with CentronicPLUS radio system
- Available as 1-, 8- and 16-channel hand-held transmitter
- High-security, encrypted radio transmission
- Multicolour display (10-segment) for simple status feedback, setting and start-up
- Optical operating feedback
- Threshold values can be set directly on the unit
- Simple group setup and automatically created central channels
- Automatic hiding of unused channels
- Two freely selectable intermediate positions per drive - retrieved by pressing the button twice
- Simple start-up by automatic selection of the nearest drive/receiver
- Automatic charging detection when battery is changed
- Wall bracket included

SWC541 PLUS Item no. 4036 000 005 0	
SWC548 PLUS Item no. 4036 000 006 0	
SWC5416 PLUS Item no. 4036 000 007 0	
Colour	White
Rated voltage	3 V / DC
Battery type	AA
Degree of protection	IP20
Permissible ambient temperature	-10 to +55 °C
Radio frequency	868,3 MHz

## Dimensions



## Connecting diagram



## Functional principle – typical wiring diagrams

## Radio receivers

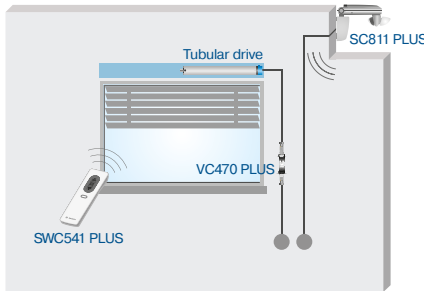
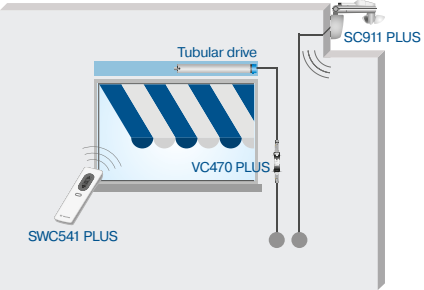
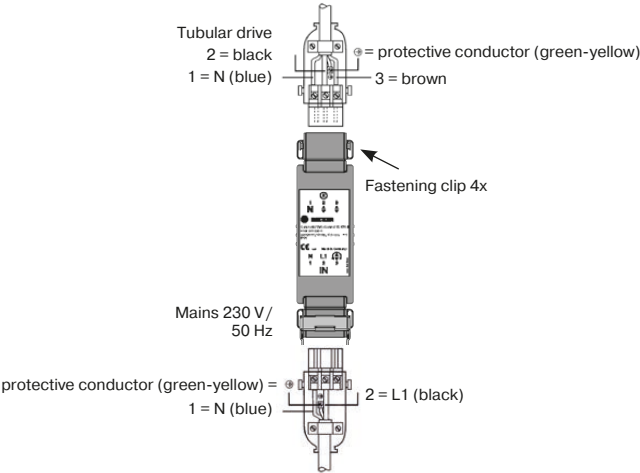
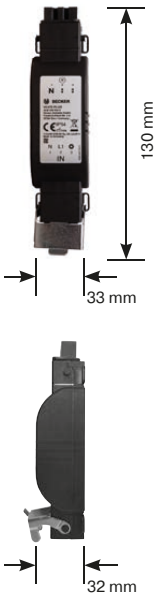
### VarioControl VC470 PLUS

Plug-in radio receiver



- Roller shutter, awning, blind and switch actuator mode
- Standardised plug connection
- Intermediate and turnover position
- Memo function
- Storage of threshold value
- Setting the mode via the mode selection switch on the device
- Bidirectional radio receiver: The control unit reports its position and status information back to the control unit
- Mesh technology ensures automatic networking of all devices to form a powerful network

Item no. 4036 000 011 0	
Rated voltage	110 - 240 V/AC/50 - 60 Hz
Switching current	5A/ 110 – 240 V at cos φ = 1
Degree of protection	IP54
Class of protection	II (when properly installed)
Permissible ambient temperature	–25 to +55 °C
Type of mounting	In or on head rail
Radio frequency	868,3 MHz



BECKER





# CentronicPLUS radio control units

## Radio sensors



Dimensions

Connecting diagram

Functional principle – typical wiring diagrams

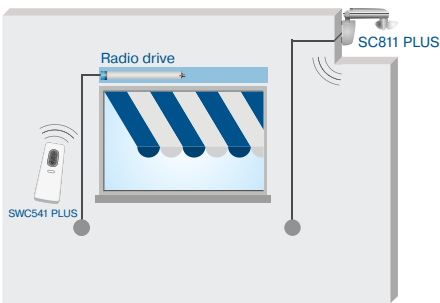
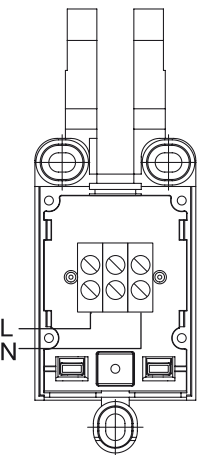
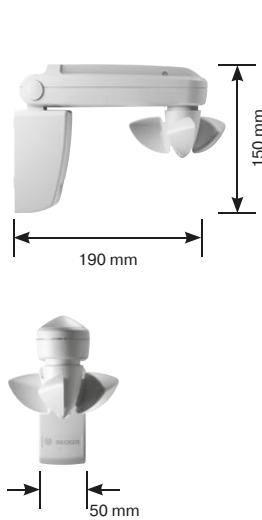
### SensorControl SC811 PLUS\*

Radio sun/wind sensor



- Convenient setting of sun and wind threshold values at the transmitter
- Adjustable sensor foot for optimum mounting
- Universally applicable for exterior sun protection
- Single or central control unit
- Optional: Supports connection of rain sensor
- Mesh technology ensures automatic networking of all devices to form a powerful network

Item no. 4036 000 015 0	
Colour	Light grey
Degree of protection	IP44
Permissible ambient temperature	–25 to +55 °C
Radio frequency	868,3 MHz



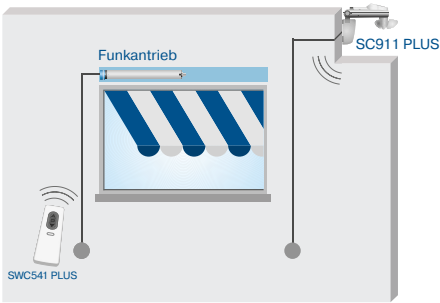
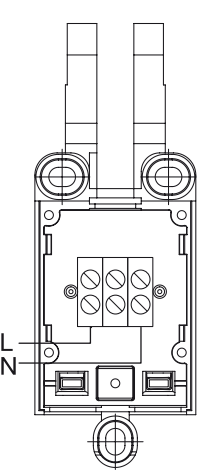
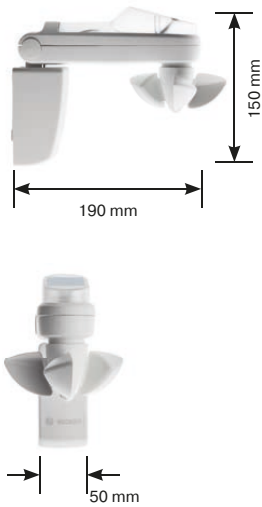
### SensorControl SC911 PLUS\*

Radio sun/wind/rain sensor



- Integrated rain sensor
- Convenient setting of sun and wind threshold values at the transmitter (e.g. SWC441-II)
- Adjustable sensor foot for optimum mounting
- Universally applicable for exterior sun protection
- Single or central control unit
- Mesh technology ensures automatic networking of all devices to form a powerful network

Item no. 4036 000 017 0	
Colour	Light grey
Degree of protection	IP44
Permissible ambient temperature	–25 to +55 °C
Radio frequency	868,3 MHz



**Note:** \* Installation brackets can be found on Page 155.







# Central radio control units

## CentralControl CC41

Central control for home automation



- Control of Centronic, CentronicPLUS and B-Tronic radio-controlled products\*
- Configuration via free Becker CentralControl app
- Operation via smartphone, tablet or desktop
- Organisation of receivers, groups and scenarios, incl. time control and holiday function
- Voice control using Amazon Alexa
- Local data storage on the central control unit, option to access on the move via secure cloud connection

Item no. 4035 000 039 0	
Colour	Black
Rated voltage	5 V / DC
Degree of protection	IP20
Class of protection	III
Permissible ambient temperature	0 to +40 °C
Radio frequency	868,3 MHz / 2,4 GHz

\* Corresponding radio sticks must be ordered separately.

## USB radio sticks



## CentronicPLUS

To extend the CC41, CC51 or CC31

Item no. 4036 000 009 0
-------------------------

## Centronic

To use the CC41 with Centronic radio system

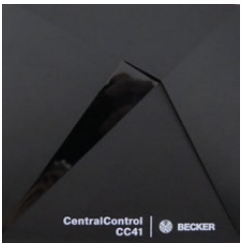
Item no. 4035 000 041 0
-------------------------

## B-Tronic

To use the CC41 with B-Tronic radio system

Item no. 4035 000 040 0
-------------------------

## Dimensions

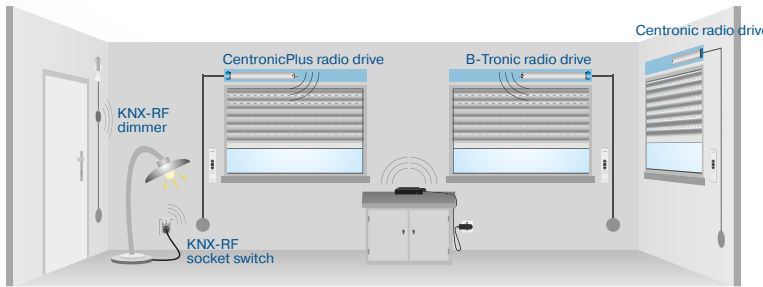


□ 115 mm



25 mm

## Functional principle – typical wiring diagrams







OPUS® radio control units

OPUS® 55  
Serial rocker

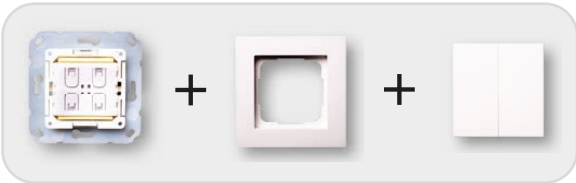


OPUS® 55  
Surface rocker



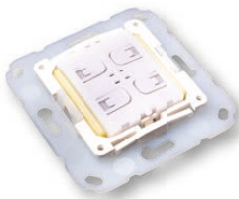
- The OPUS® greenNet wall transmitters do not contain any batteries and are therefore absolutely maintenance-free
- The built-in maintenance-free electrodynamic energy generator generates the energy required for the transmit command with every keystroke
- The complete wall transmitter always consists of wall transmitter module, frame and a rocker of your choice
- All individual parts must be ordered separately
- For on-site operation of a Becker EnOcean drive

OPUS® 55  
Surface rocker with arrows



OPUS® 55 Serial rocker		Item no. 4935 300 093 0
OPUS® 55 Surface rocker		Item no. 4935 300 091 0
OPUS® 55 Surface rocker with arrows		Item no. 4935 300 092 0
Dimensions	55 x 55 mm	
Colour	Glossy White	
Degree of protection	IP20	
Radio frequency	868,3 MHz	
Transmission power	10 mW	
Type of mounting	Surface-mounted (drilling or gluing)	

OPUS® 55  
Wall transmitter module PTM210



Item no. 4935 300 089 0	
Type of mounting	Surface-mounted

OPUS® 55  
Cube frame 1-fold



Item no. 4935 300 090 0	
Dimensions	81 x 81 x 10 mm
Colour	Glossy White
Degree of protection	IP20





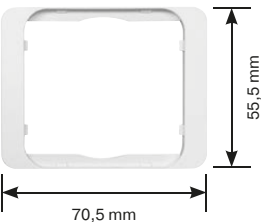
# Adapter frame, alpine white

Merten Octocolor



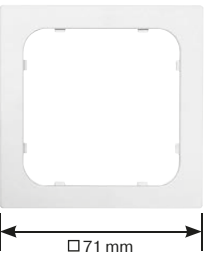
Item no. 4030 200 009 0

Busch-Jaeger alpha nea



Item no. 4030 200 010 0

Gira S-Color



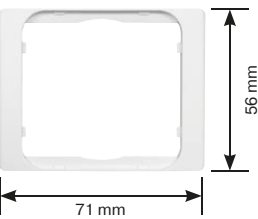
Item no. 4030 200 011 0

Gira flat switch



Item no. 4030 200 012 0

Berker Arsys



Item no. 4030 200 013 0

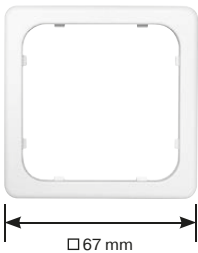
Jung Topline and LS 990



Item no. 4030 200 015 0

# Adapter frame, alpine white

Jung CD 500



Item no. 4030 200 016 0

Jung A500 / Gira Event / System M /  
Busch-Jaeger Ballance-SI /  
and switch ranges with 55 x 55 mm  
central board



Item no. 4030 200 017 0

## Accessories

Surface-mounted  
housing



Item no. 4030 200 035 0

Colour	White
Dimensions (W x H x D)	88x88x50 mm

COMBI 308/W  
cable junction box

Suitable for use  
VC420 PLUS



Item no. 4827 155 004 0

Multi cover frame, 2-way

Item no. 4030 200 023 0

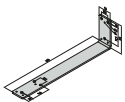
Multi cover frame, 3-way

Item no. 4030 200 024 0

Varta battery button cell CR2032

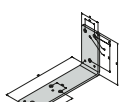
Item no. 4032 200 010 0

Mounting bracket for sun and wind sensors



Item no. 4033 300 057 0

Dimensions	110 x 400 mm
------------	--------------



Item no. 4033 300 056 0

Dimensions	110 x 200 mm
------------	--------------



# Overview of the Centronic range of control units

Centronic control units radio solutions	EC141-II	EC145-II	EC241-II	EC245-II	EC541-II	EC545-II	EC5410-II	EC513		MC441-II	TC511	SWC241-II	SWC245-II	SWC441-II	SWC442-II	SWC510	UC520
Catalogue page	106	106	108	108	108	110	110	112		110	104	114	114	116	116	128	118
Applications																	
Roller shutter	x	x			x	x	x	x		x	x						x
Roller shutter doors	x	x	x	x	x	x	x	x			x						
Interior sun protection	x	x			x	x	x			x		x	x	x	x		x
Exterior sun protection	x	x			x	x	x	x				x	x	x	x	x	x
ON/OFF switch	x	x			x	x	x	x			x		x		x		
Dimmer	x	x			x	x	x						x		x		
Functions																	
Hand-held transmitter	x	x	x	x	x	x	x			x		x	x	x	x		
Wall transmitter								x			x						
Surface-mounted								x			x					x	
Flush-mounted																	x
Plug-in																	
Window mounting (suction pad)																	
Display											x						
UP-STOP-DOWN-STOP toggle button			x	x													
1-channel transmitter	x		x		x					x	x	x		x			
2-channel transmitter (light button)															x		
3-channel transmitter								x									
5-channel transmitter		x		x									x				
10-channel transmitter							x										
Receiver/control unit																x	x
Sensor (transmitter)																x	
Manual/automatic mode changeover										x	x			x	x		x
Group/Central control		x		x		x	x						x				
Blind mode											x						
Intermediate position	x	x			x	x	x	x		x	x	x	x	x	x	x	x
Memory function										x							x
Date/time											x						
Auto. summer/winter time											x						
Holiday function											x						
Astro function											x						
Switching times											x						
Blocking times											x						
Twilight											x						
Sun (threshold control)											x			x	x	x	x

Roller shutter applications      Sun protection applications  
Roller shutter door      Roller shutter, Sun Protection, ON/OFF switch, Dimmer





# Overview of the Centronic range of control units

Centronic control units radio solutions	EC141-II	EC145-II	EC241-II	EC245-II	EC541-II	EC545-II	EC5410-II	EC513		MC441-II	TC511	SWC241-II	SWC245-II	SWC441-II	SWC442-II	SWC510	UC520
Wind (threshold control)												x	x	x	x	x	x
Rain																	
Angle of inclination																	
Winter operation																	
Switch/button can be connected																	x
Glass breakage function																	
Solar operation																	
Roller shutter drive with Centronic receiver	x	x			x	x	x	x		x	x						
Sun Protection drive with Centronic receiver	x	x			x	x	x	x			x	x	x	x			
Connection Roller shutter drives																	x
Connection Sun Protection drives																x	x
ON/OFF	x	x			x	x	x	x			x						
Dim	x	x			x	x	x						x		x		
Radiant heater switching	x	x			x	x	x	x			x		x				
Pulse for controlling ext. devices			x	x													

Roller shutter applications      Sun protection applications  
Roller shutter door      Roller shutter, Sun Protection, ON/OFF switch, Dimmer





# Overview of the Centronic range of control units

Centronic control units radio solutions	VC180-II	VC280-II	VC220	VC220h	VC210/310	VC320	VC470-II	VC421-II	SC431-II		SC211-II	SC561	SC711	SC811	SC861	SC911	BOT5	BOT6
Catalogue page	118	118	120	120	122	122	124	112	126		126	130	128	128	130	132	140	140
Applications																		
Roller shutter						x	x	x	x									
Roller shutter doors		x						x									x	x
Interior sun protection							x	x	x			x						
Exterior sun protection							x	x			x	x	x	x	x	x		
ON/OFF switch	x			x	x			x										
Dimmer			x		x			x										
Functions																		
Hand-held transmitter																		
Wall transmitter																		
Surface-mounted					x							x	x	x	x	x		
Flush-mounted						x		x										
Plug-in	x	x					x				x						x	x
Window mounting (suction pad)									x									
Display																		
UP-STOP-DOWN-STOP toggle button									x		x	x	x	x	x	x	x	
1-channel transmitter								x	x		x	x	x	x	x	x		
2-channel transmitter (light button)																		
3-channel transmitter																		
5-channel transmitter																		
10-channel transmitter																		
Receiver/control unit	x	x	x	x		x	x										x	x
Sensor (transmitter)									x		x	x	x	x	x	x		
Manual/automatic mode changeover									x									
Group/Central control																		
Blind mode							x											
Intermediate position			x		x	x	x	x										
Memory function						x	x											
Date/time																		
Auto. summer/winter time																		
Holiday function																		
Astro function																		
Switching times																		
Blocking times																		
Twilight									x									
Sun (threshold control)							x		x			x		x	x	x		

Roller shutter applications    Sun protection applications  
Roller shutter door    Roller shutter, Sun Protection, ON/OFF switch, Dimmer





# Overview of the Centronic range of control units

Centronic control units radio solutions	VC180-II	VC280-II	VC220	VC220h	VC210/310	VC320	VC470-II	VC421	SC431-II		SC211-II	SC561	SC711	SC811	SC861	SC911	BOT5	BOT6
Wind (threshold control)							x				x		x	x	x	x		
Rain																x		
Angle of inclination											x							
Winter operation																		
Switch/button can be connected								x									x	x
Glass breakage function									x									
Solar operation												x			x			
Roller shutter drive with Centronic receiver								x	x									
Sun Protection drive with Centronic receiver								x			x	x	x	x	x	x		
Connection Roller shutter drives						x	x											
Connection Sun Protection drives							x											
ON/OFF	x			x	x													
Dim			x		x													
Radiant heater switching				x	x													
Pulse for controlling ext. devices		x															x	x





# Overview of the CentronicPLUS range of control units

CentronicPLUS control units radio solutions	EC541 PLUS	EC548 PLUS	EC5416 PLUS	VC420 PLUS	VC520 PLUS	LC120 PLUS	SWC541 PLUS	SWC548 PLUS	SWC5416 PLUS		VC470 PLUS	SC811 PLUS	SC911 PLUS
Catalogue page	142	142	142	142	144	144	146	146	146		146	148	148
Applications													
Roller shutter	x	x	x	x	x		x	x	x		x	x	x
Roller shutter doors													
Interior sun protection							x	x	x			x	x
Exterior sun protection							x	x	x		x	x	x
ON/OFF switch	x	x	x	x	x	x					x		
Dimmer													
Functions													
Hand-held transmitter	x	x	x				x	x	x				
Wall transmitter													
Surface-mounted													
Flush-mounted													
Plug-in											x		
Window mounting (suction pad)													
Display													
UP-STOP-DOWN-STOP toggle button													
1-channel transmitter	x						x						
2-channel transmitter (light button)													
3-channel transmitter													
5-channel transmitter													
8-channel transmitter		x						x					
10-channel transmitter													
16-channel transmitter			x						x				
Receiver/control unit				x	x	x					x		
Sensor (transmitter)												x	x
Manual/automatic mode changeover	x	x	x				x	x	x				
Group/Central control	x	x	x				x	x	x				
Blind mode				x	x						x		
Intermediate position	x	x	x	x	x		x	x	x		x		
Memory function	x	x	x	x	x	x					x		
Date/time													
Auto. summer/winter time													
Holiday function													
Astro function													
Switching times													
Blocking times													
Twilight												x	x
Sun (threshold control)				x	x		x	x	x		x	x	x

Roller shutter applications      Sun protection applications  
Roller shutter door      Roller shutter, Sun Protection, ON/OFF switch, Dimmer





# Übersicht CentronicPLUS Steuerungsprogramm

CentronicPLUS control units radio solutions	EC541 PLUS	EC548 PLUS	EC5416 PLUS	VC420 PLUS	VC520 PLUS	LC120 PLUS	SWC541 PLUS	SWC548 PLUS	SWC5416 PLUS		VC470 PLUS	SC811 PLUS	SC911 PLUS
Wind (threshold control)				x			x	x	x		x	x	x
Rain				x	x		x	x	x		x		x
Temperature													x
Angle of inclination													
Winter operation													
Switch/button can be connected				x	x	x							
Glass breakage function													
Solar operation													
Roller shutter drive with Centronic receiver													
Roller shutter drive with CentronicPlus receiver	x	x	x									x	x
Sun Protection drive with Centronic receiver													
Sun Protection drive with CentronicPlus receiver							x	x	x			x	x
Connection Roller shutter drives				x	x						x		
Connection Sun Protection drives				x	x						x		
ON/OFF	x	x	x	x	x	x	x	x	x		x		
Dim													
Radiant heater switching													
Pulse for controlling ext. devices					x	x							

Roller shutter applications      Sun protection applications  
Roller shutter door      Roller shutter, Sun Protection, ON/OFF switch, Dimmer



# Overview of the Centronic range of control units – Wired solutions

Centronic control units wired	EC41	EC42	EC52	UC42	UC45	UC52	MC42	TC42	TC52	SC43	SWC62	SC71	SC81
Catalogue page	90	90	90	92	92	92	94	94	96	96	96	98	98
Applications													
Roller shutter	x	x	x	x	x	x	x	x	x	x			
Exterior sun protection	x	x	x	x	x	x					x	x	x
Interior sun protection	x	x	x	x	x	x	x	x	x	x	x		
Functions													
Surface-mounted	x											x	x
Flush-mounted		x	x	x		x	x	x	x		x		
Rail mounting					x								
Window mounting (suction pad)										x			
Display							x	x	x		x		
Separate UP/STOP/DOWN buttons	x	x	x			x	x	x	x		x		
Switch/button combination	x	x	x										
Sensor										x		x	x
Manual/automatic mode changeover						x	x	x	x		x		
Single control unit	x	x	x	x	x	x	x	x	x		x		
Group/central control unit				x	x	x			x		x		
Touch mode for blinds				x	x	x	x	x	x		x		
Intermediate position						x	x	x	x		x		
Ventilation position/tilt/fabric stretching						x	x	x	x		x		
Memory function							x						
Date/time								x	x		x		
Auto. summer/winter time								x	x		x		
Holiday function								x	x				
Astro function								x	x				
Switching times								x	x		x		
Blocking times								x	x		x		
Twilight									x				
Sun (threshold control)									x	x	x		x
Wind (threshold control)											x	x	x
Winter operation											x		
Supported receivers													
SC43									x				
SC71											x		
SC81											x		





# Overview

## Electrical accessories

Redary switch / pushbutton	172	Spiral cable	180
Universal key switch / pushbutton	173	Closing plugs	180
Latch clamp	174	Pressure-wave hose	180
Redary switch set	174	Pressure-wave contact switch	180
Cord switch set	174	Cable terminal box	181
Programming unit	175	Terminal strip	181
Universal programming	175	Pressure-wave mounting set 1	181
Quick-connection set	176	Pressure-wave mounting set 2	181
Connecting cable	176	OSE rubber profile, roller shutter	182
Adapter cable	176	OSE terminal strip, roller shutter	182
Hirschmann accessories	176	OSE rubber profile, door	182
Timer U26 / Light sensor LS26	177	OSE terminal strip, door	182
Surface-mounted	177	OSE mounting set, roller shutter	183
Relay	177	OSE mounting set, door	183
Hand-held transmitter	178	DC control unit	183
Light barrier	179		
Radio remote control	179		





Redary switch / push-button  
1-pole, flush-mounted



Redary switch / push-button for controlling a mechanical or multiple electronic drives or control units with push-button inputs

- 1-pole version
- Complete with full cover plate
- Switchable push-button / latched switch

Item no. 4901 000 255 0	
Colour	Alpine white
Dimensions (L x W x H)	80x80x48 mm
Mains connection	230 V / 50 Hz
Degree of protection	IP20
Loading capacity	10 A
Type of mounting	flush-mounted

Redary switch / push-button  
1-pole, surface-mounted



Redary switch / push-button for controlling a mechanical or multiple electronic drives or control units with push-button inputs

- 1-pole version
- Complete with surface-mounted housing
- Switchable push-button / latched switch

Item no. 4901 000 253 0	
Colour	Alpine white
Dimensions (L x W x H)	57x64,5x51,5 mm
Mains connection	230 V / 50 Hz
Degree of protection	IP20
Loading capacity	10 A
Type of mounting	surface-mounted

Redary switch / push-button  
2-pole, surface-mounted



Redary switch / push-button for controlling two mechanical or multiple electronic drives

- 2-pole version
- Complete with frame
- Switchable push-button / latched switch

Item no. 4901 000 142 0	
Colour	White
Dimensions (L x W x H)	74x74x60 mm
Mains connection	230 V / 50 Hz
Degree of protection	IP44
Loading capacity	10 A
Type of mounting	surface-mounted

Rocker switch / rocker  
pushbutton switch  
flush-mounted



Rocker switch / push-button for controlling a mechanical or multiple electronic drives or control units with push-button inputs

- Outputs locked
- 1-pole
- Complete with frame

Item no. 4901 000 274 0 (rocker switch)	
Item no. 4901 000 275 0 (rocker push-button switch)	
Colour	Alpine white
Dimensions (L x W x H)	80,5x80,5x35 mm
Mains connection	230 V / 50 Hz
Degree of protection	IP20
Loading capacity	10 A
Type of mounting	flush-mounted

Rocker switch / rocker  
pushbutton switch  
surface-mounted



Rocker switch / push-button for controlling a mechanical or multiple electronic drives or control units with push-button inputs

- Outputs locked
- 1-pole
- Complete with surface-mounted housing

Item no. 4901 000 140 0 (rocker switch)	
Item no. 4901 000 144 0 (rocker push-button switch)	
Colour	White
Dimensions (L x W x H)	74x74x60 mm
Mains connection	230 V / 50 Hz
Degree of protection	IP44
Loading capacity	10 A
Type of mounting	surface-mounted

Universal key switch /  
pushbutton, surface-mounted



Key switch / push-button with profile semi-cylinder for controlling a mechanical or multiple electronic drives or control units with push-button inputs

- Latched / dead mans on one or two sides
- With profile semi-cylinder
- Incl. three keys

Item no. 4901 000 100 0 (random keys)	
Item no. 4901 000 200 0 (common keys)	
Colour	White frame
Dimensions (L x W x H)	80x80x54 mm
Mains connection	230 V / 50 Hz
Degree of protection	IP54
Loading capacity	5 A
Type of mounting	surface-mounted / flush-mounted



Latch clamp,  
4-pole



Item no. 4816 000 004 0

Latch clamp,  
5-pole



Item no. 4816 000 005 0

Redary switch set,  
surface-mounted /  
flush-mounted

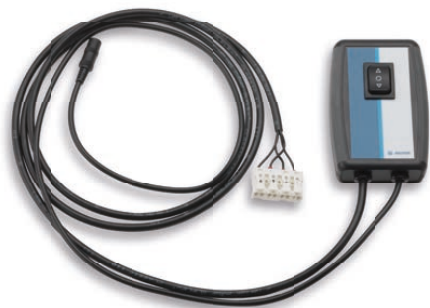


- Redary switch set for starting up a drive with mechanical limit switching
- 1-pole
  - 1 m mains cable
  - 0,7 m connecting cable
  - Incl. plug-in terminal, 4-pole (releasable)

Item no. 4901 001 158 0

Colour	Cream white
Mains connection	230 V / 50 Hz
Degree of protection	IP20
Loading capacity	10 A
Type of mounting	surface-mounted / flush-mounted

Cord switch set  
12 V DC



- For 12 V DC drives with 2-wire or 4-wire connecting cable
- Integrated motor cable
- Separate power supply unit included
- Stable industrial housing
- Simple one-key operation

Item no. 4901 002 188 0

Colour	Black
Rated voltage	230-240 V/AC / 50 Hz
Power output	12 V DC
Loading capacity	max. 7 A
Degree of protection	IP 20

Cord switch set

- With latching push-button



Item no. 4901 002 182 0

Programming unit



Cord switch adjustment set for starting operation of drives with electronic limit switching

- 1-pole
- 2,8 m drive connecting cable
- 2 m mains cable

Item no. 4935 200 011 0 (with plug-in terminal)

Item no. 4935 200 013 0 (coupling (type STAK 3))

Colour	White
Mains connection	230 V / 50 Hz
Degree of protection	IP20

Universal programming unit



- For drives with mechanical and electronic limit switching, and drives with electronic radio limit switching
- Important functions are retrievable with 1-button operation
- Integrated mains and motor cables
- Stronger industrial housing with weld edge protection
- External signal transducer can be connected
- Backlit control buttons
- User-friendly operating logic

Item no. 4935 000 001 0

Colour	Black
Rated voltage	230-240 V/AC / 50 Hz
Loading capacity	max. 5A
Degree of protection	IP 44
Permissible ambient temperature	-10 to +50 °C
Mains connection cable	1,8 m length
Drive cable	1,6 m length



BECKER



Quick-connection set  
4-core



- For core cross-section 0.34 to 0.75 qmm
- IP65

Item no. 4809 006 002 0

Connecting cable  
for radio drives



- 2 m 230 V / 50 Hz power line with CEE 7/7 safety plug
- Plug-in terminal

Item no. 4935 200 027 0

Adapter cable



Adapter cable with Hirschmann coupling (type STAK 3) for adjustment set

- Cable length: 0,3/2/5 m

- Item no. 4930 200 181 0 (0,3 m)
- Item no. 4930 200 089 0 (2 m)
- Item no. 4930 200 088 0 (5 m)

Hirschmann coupling  
(Type STAK 3N)



Item no. 4809 002 000 0	
Colour	Grey

Hirschmann  
retaining clamp



Item no. 4809 004 000 3

Hirschmann plug  
(Type STAS 3N)



Item no. 4809 001 000 0	
Colour	Grey

Timer U26



- Easy operation using clear display
- Maximum convenience through preprogrammed and individually programmable switching times
- Holiday and weekly function
- Sun and twilight function in connection with LS26 light sensor
- Adjustable ventilation slot
- Power reserve for mains failure
- Light sensor can be connected
- Can be integrated into switching ranges from many manufacturers: Berker: S1, B3, B7 / Gira: Standard, E2, Event, Esprit / Jung: AS, A500, A-Creation, A-Creation-Glas, A-Plus / Merten: M-Smart, M-Arc, M-Plan, M-Plan-Glas, M1, Atelier, M-Star / Hager: kallysto.pur, kallysto.stil, kallysto.art / PEHA: Aura / Busch-Jaeger: Balance-SI / ELSO: Joy, as well as additional manufacturers with 55 x 55 mm central board dimensions

Item no. 4906 270 000 0	
Colour	Alpine white
Mains connection	230 V / 50 Hz
Degree of protection	IP20
Loading capacity	5 A
Type of mounting	Flush-mounted 58 mm diameter, wall mounting

Item no. 4906 270 004 0

Item no. 4906 070 134 0	
Colour	Alpine white
Dimensions (W x H x D)	81x81x50,5 mm

- Cable length: 2/5 m
- Suitable for U26 timer

- Item no. 4906 262 002 0 (LS26 – 2 m)
- Item no. 4906 265 001 0 (LS26 – 5 m)

C-disc for  
Busch-Jäger



Surface-mounted  
housing for U26  
timer



Light sensor LS26



Isolating relay TR1



For connecting multiple drives with mechanical limit switching in parallel

- One isolating relay is needed for each drive

Item no. 4003 200 002 0	
Dimensions (L x W x H)	48x52x32 mm
Mains connection	230 V / 50 Hz
Degree of protection	IP20
Loading capacity	5 A

Multiple control relay



For controlling at most two drives with mechanical limit switching or multiple drives with electronic limit switching, and for configuring group and central control units.

Item no. 4906 000 110 0	
Dimensions (W x H x D)	49x52x22 mm
Mains connection	230 V / 50 Hz
Degree of protection	IP20
Loading capacity	6 A



2-channel  
Hand-held  
transmitter  
Micro



The following is included:

- 2-channel 433 MHz
- Battery 3 V (CR2032)

Item no. 4905 580 002 0	
Colour	Blue / Red
Dimensions (W x H x D)	24x50x11 mm

1-channel  
Hand-held  
transmitter  
Mini



The following is included:

- 1-channel 40 MHz Mini hand-held transmitter
- Battery 12 V

Item no. 4905 500 001 0	
Colour	Blue / Red
Dimensions (W x H x D)	38x74x15 mm

4-channel  
Hand-held  
transmitter  
Mini



The following is included:

- 4-channel 40 MHz Mini hand-held transmitter
- Battery 12 V

Item no. 4905 500 004 0	
Colour	Blue / Red
Dimensions (W x H x D)	38x74x15 mm

1-channel  
Hand-held  
transmitter  
Maxi



The following is included:

- 1-channel 40 MHz Maxi hand-held transmitter
- Battery 9 V (monobloc battery)

Item no. 4905 530 001 0	
Colour	Blue / Red
Dimensions (W x H x D)	60x110x22 mm

4-channel  
Hand-held  
transmitter  
Maxi



The following is included:

- 4-channel 40 MHz Maxi hand-held transmitter
- Battery 9 V (monobloc battery)

Item no. 4905 530 004 0	
Colour	Blue / Red
Dimensions (W x H x D)	60x110x22 mm

Infrared light barrier  
transmitter and receiver



Item no. 4906 000 117 0	
Range	15 m
Control voltage	24 – 240 V/AC, 12 – 240 V/DC

Reflector light barrier



- Only for use in buildings
- Not suitable for outdoor installation

Item no. 4906 000 116 0	
Range	max. 5 m
Degree of protection	IP65
Control voltage	24 – 240 V/AC, 12 – 240 V/DC

Radio remote control  
unit, 1-channel



- For retrofitting to an existing door control unit (with no integrated slot for the radio receiver)
- Complete with receiver and antenna
  - In plastic housing
  - With push-button function
  - 30 hand-held transmitter buttons can be saved

Item no. 4905 602 001 0	
Dimensions (W x H x D)	125x125x100 mm
Degree of protection	IP54
Loading capacity	floating 5 A
Type of mounting	surface-mounted
Possible codes	4,78 Mio.
FM Receiver unit	Self-training
Relay output	1 x floating, 1 x changeover contact: 5 A / 230 V

Radio remote control  
unit, 4-channel



- For retrofitting to an existing door control unit (with no integrated slot for the radio receiver)
- Complete with receiver and antenna
  - In plastic housing
  - With push-button function
  - 30 hand-held transmitter buttons can be saved

Item no. 4905 602 004 0	
Dimensions (W x H x D)	125x125x100 mm
Degree of protection	IP54
Loading capacity	floating 5 A
Type of mounting	surface-mounted
Possible codes	4,78 Mio.
FM Receiver unit	Self-training
Relay output	4 x floating, 4 x changeover contact: 5 A / 230 V



Spiral cable  
2-core



For connecting the cable terminal box to the door and control unit flexibly

Item no. 4903 000 134 0	
Length	0.7 m stretches to 3 m

Spiral cable  
4-core



For connecting the cable terminal box to the door and control unit flexibly

Item no. 4903 200 134 0	
Length	0.9 m stretches to 3.5 m

Closing plugs for  
pneumatic safety  
edge



Item no. 4903 000 145 0	
-------------------------	--

Pressure-wave  
hose



For connecting the rubber profile to the pressure-wave contact switch

Item no. 4903 000 132 0	
Length	0,42 m
Diameter	5,0 mm

Pressure-wave contact switch  
(normally closed)



For constructing a pneumatic safety edge

- Including housing for installation on the door

Item no. 4903 000 139 0	
-------------------------	--

Cable terminal box



For installing the safety edge

Item no. 4903 500 013 0	
-------------------------	--

Terminal strip, galvanised



For fastening the rubber profile strip

Item no. 4903 000 131 0	
Dimensions (W x H)	22x9 mm

Pressure-wave  
mounting set 1



- The following is included:
- One pressure-wave contact switch
  - Spiral cable 2-core, length 0.7 m, extends to 3 m
  - Two closing plugs
  - One pressure-wave hose

Item no. 4903 000 127 0	
-------------------------	--

Pressure-wave  
mounting set 2



- The following is included:
- One pressure-wave contact switch
  - Spiral cable 4-core, length 0.9 m, extends to 3.5 m
  - Two closing plugs
  - One pressure-wave hose

Item no. 4903 000 128 0	
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OSE rubber profile,  
roller shutter



- Continuous lengths of rubber profile strip

Item no. 4903 100 009 0		
Dimensions (W x H)	15x40 mm	

OSE terminal strip,  
roller shutter



- Continuous length terminal strip, galvanised

Item no. 4903 100 010 0		
Dimensions (W x H)	15x8 mm	

OSE rubber profile,  
door



- Continuous lengths of rubber profile strip

Item no. 4903 100 008 0		
Dimensions (W x H)	25x72 mm	

OSE terminal strip,  
door



- Continuous length terminal strip, galvanised

Item no. 4903 500 005 0		
Dimensions (W x H)	25x12 mm	

OSE mounting set,  
roller shutter



- The following is included:
- Two stoppers for rubber profile
  - Spiral cable, 4-core, length 0.9 m, extends to 4 m
  - One OSE terminal box
  - One OSE transmitter
  - One OSE receiver

Item no. 4903 100 002 0		
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OSE mounting set,  
door



- The following is included:
- Two stoppers for rubber profile
  - Spiral cable, 5-core, length 0.9 m, extends to 4 m
  - One OSE terminal box
  - One OSE transmitter
  - One OSE receiver

Item no. 4903 100 001 0		
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DC control unit  
GS2 / 24 V



- DC control unit for operating tubular drives with safe extra-low voltage 24 V/DC
- Output voltage: 24 V / DC
  - Push-button input UP / DOWN

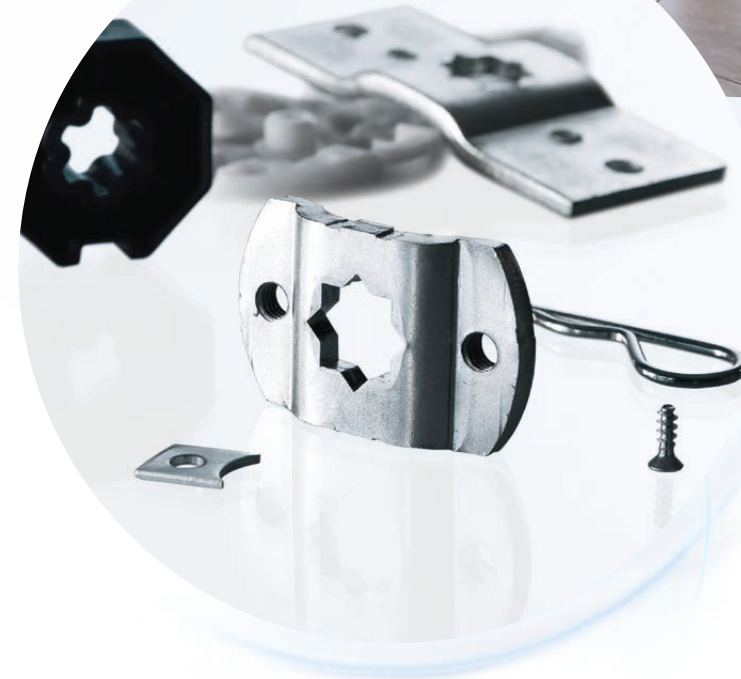
Item no. 4007 000 016 0		
Colour	Light grey	
Dimensions (W x H x D)	182x180x90 mm	
Mains connection	230 V/50 Hz	
Degree of protection	IP65	
Loading capacity	7,5 A / 24 V	
Type of mounting	Surface-mounted housing	



# Overview

## Mechanical accessories

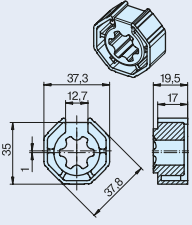
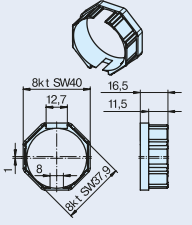

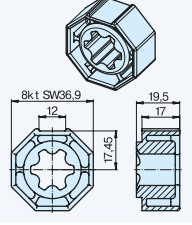
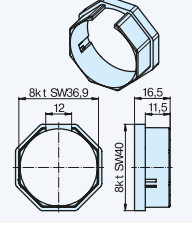

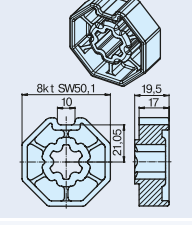
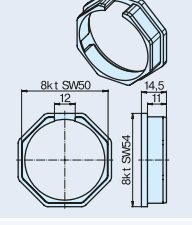

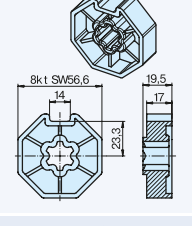
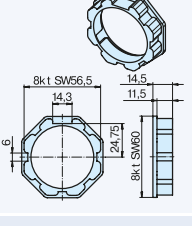

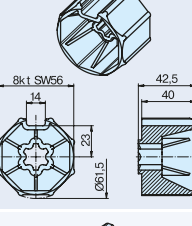
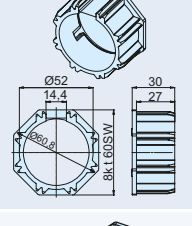

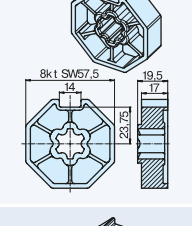
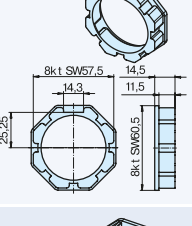

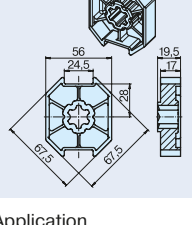
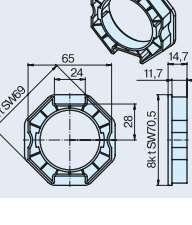

<b>Drive adapters and rings</b>	<b>186</b>	<b>Connecting pieces</b>	<b>207</b>
Octagonal shaft	186	Tubular drives P5 – P13	207
Profile shaft	187	Tubular drives R7 – R50	208
Hexagonal shaft	189	Tubular drives L44 – L120	210
Grooved shaft	190		
Round tube	193	<b>Wall brackets, box brackets, system brackets and awning brackets</b>	<b>211</b>
Drive adapters and rings for sensitive obstacle detection	197	Tubular drives P5 – P13 and R7 – R50	211
Adapter kit for R series	199	Tubular drives L44 – L120	218
Dismantling tool for drive adapters	200		
Fasteners for drive adapters	200	<b>Accessories for tubular drives with crank connection</b>	<b>221</b>
		R12 – L120	221
<b>Cover clips</b>	<b>201</b>	Connecting pieces	223
<b>Setting tools / suspension springs</b>	<b>202</b>		
<b>Rigid shaft connectors</b>	<b>203</b>		
Rigid safety springs	203		
Rigid quick-release connectors for size 40 shafts	204		
Anti-lifting device	206		
Fastening ring	206		



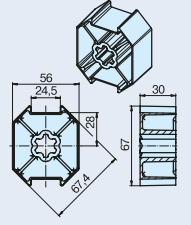
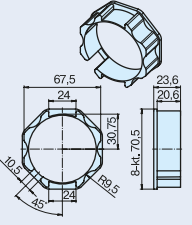

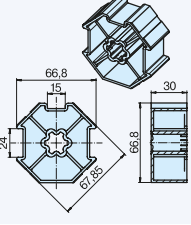
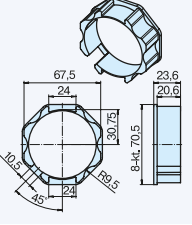

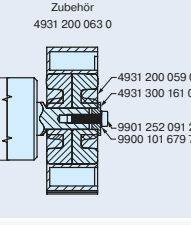
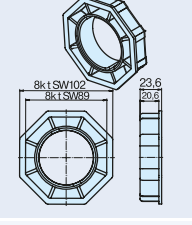

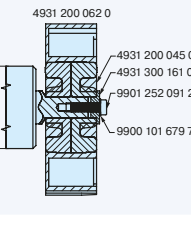
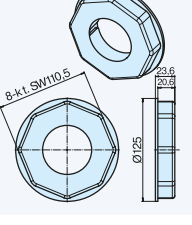



Drive adapters and rings

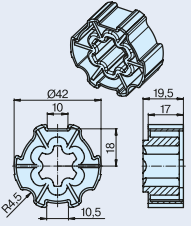
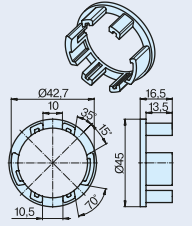

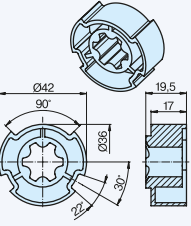
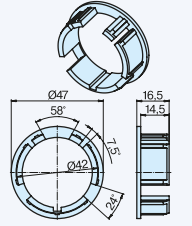

Octagonal shaft

Drive adapter	Ring	App.*	Manu- facturer	Designation (Dimensions)	P5 – P13	R7 – R50	L44 – L120
			Selve	Drive adapter S40 Ring S40	4930 300 083 0 4930 300 085 0		
			V.Müller	Drive adapter S40VM Ring S40VM	4930 300 142 0 4930 300 143 0		
				Drive adapter SW50 Ring SW50 Intermediate ring 50 x 1.5	4930 300 121 0 4930 300 122 0 4930 300 102 0	4930 300 121 0 4930 300 122 0	
			Selve, Weis- bender, Staffer, V. Müller	Drive adapter S60 Ring S60 Intermediate ring 50 x 1.5	4930 300 041 0 4930 020 707 2 4930 300 102 0		
			Selve, Weis- bender, Staffer, V. Müller	Drive adapter S60L extended Ring S60L extended		4930 300 466 0 4930 300 465 0	
				Drive adapter Rolm 60 Ring Rolm 60 Intermediate ring 50 x 1.5	4930 300 044 0 4930 300 037 0 4930 300 102 0	4930 300 044 0 4930 300 037 0	
			Selve, SHG, Weis- bender, Ecker- mann	Drive adapter SM70 Ring SM70		4930 300 045 0 4930 000 607 0	

\*Application

Drive adapter	Ring	App.*	Manu- facturer	Designation (Dimensions)	P5 – P13	R7 – R50	L44 – L120
			Alulux	Drive adapter SM70 Ring SM70			4931 300 080 0 4931 030 707 4
			Heroal	Drive adapter 70 Ring 70			4931 000 603 4 4931 030 707 4
				Drive adapter SW102 with accessories Ring SW102			4931 200 063 0 4931 300 137 0
			Heroal	Drive adapter SW125 with accessories Ring SW125			4931 200 062 0 4931 300 098 0

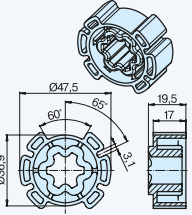
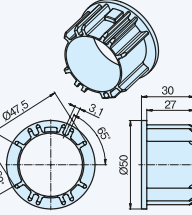

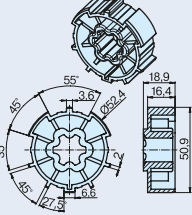
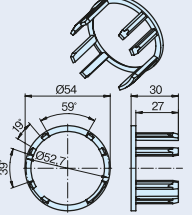

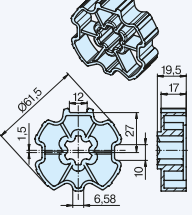
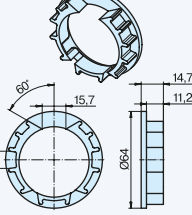

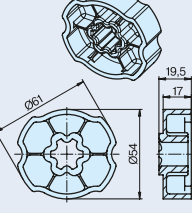
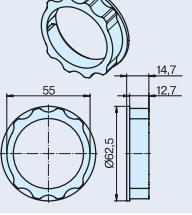

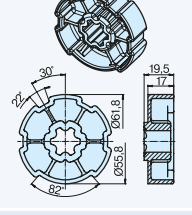
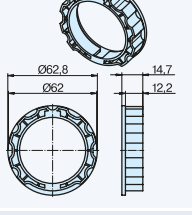
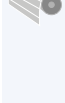
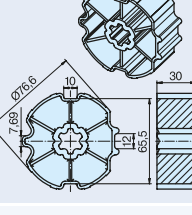
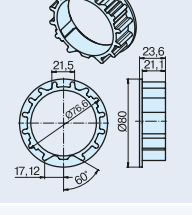

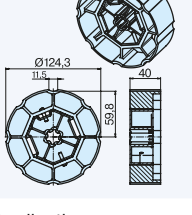
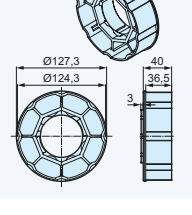
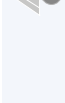
Profile shaft

Drive adapter	Ring	App.*	Manu- facturer	Designation (Dimensions)	P5 – P13	R7 – R50	L44 – L120
			Zurflüh Feller	Drive adapter ZF45 x 0.5 Ring ZF45 x 0.5	4930 300 135 0 4930 300 136 0		
			Helio- screen	Drive adapter 47 x 2 Ring 47 x 2	4930 300 305 0 4930 300 306 0		



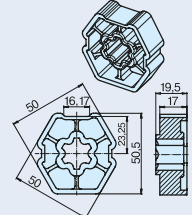
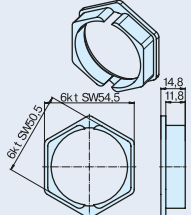

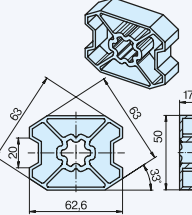
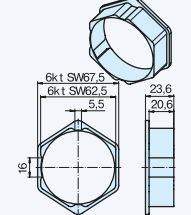

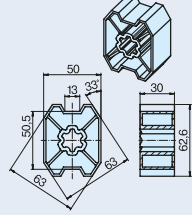
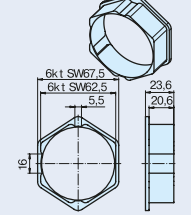

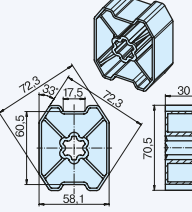
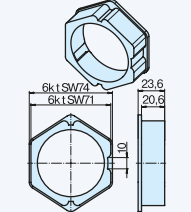

# Drive adapters and rings

## Profile shaft

Drive adapter	Ring	App.*	Manu- facturer	Designation (Dimensions)	P5 – P13	R7 – R50	L44 – L120
			Benthin	Drive adapter Benthin 52+62	4930 300 442 0		
				Ring Benthin 52+62	4930 300 443 0		
				Wall bracket	4930 300 432 0		
			Zurflüh Feller	Drive adapter ZF54	4930 300 193 0	4930 300 193 0	
				Ring ZF54	4930 300 390 0	4930 300 390 0	
				Intermediate ring 50 x 1.5	4930 300 102 0		
			Zurflüh Feller	Drive adapter ZF64x0.8	4930 300 140 0	4930 300 140 0	
				Ring ZF64x0.8	4930 300 141 0	4930 300 141 0	
				Intermediate ring 50 x 1.5	4930 300 102 0		
			Hoos, Metalpreß, Weisbender	Drive adapter HM65	4930 300 048 0	4930 300 048 0	
				Ring HM65	4930 080 707 0	4930 080 707 0	
				Intermediate ring 50 x 1.5	4930 300 102 0		
			Eckermann, Imbac	Drive adapter E65	4930 300 047 0	4930 300 047 0	
				Ring E65	4930 040 707 2	4930 040 707 2	
				Intermediate ring 50 x 1.5	4930 300 102 0		
			Zurflüh Feller	Drive adapter ZF80x1.2		4930 300 327 0	4931 300 148 0
				Ring ZF80x1.2		4931 300 149 0	4931 300 149 0
				Intermediate ring 63 x 1.5		4930 300 628 0	
			Alukon	Drive adapter A128			4931 300 302 0
				Ring A128			4931 200 104 0
				Ring 70			4931 030 707 4

\*Application

## Hexagonal shaft

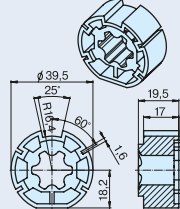
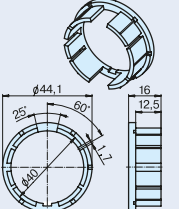

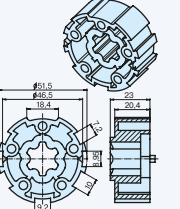
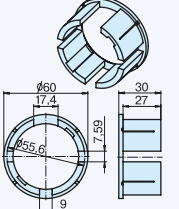

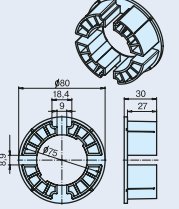

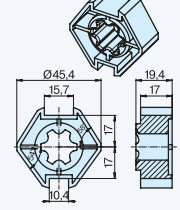
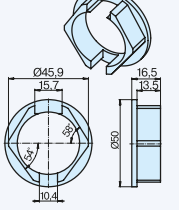

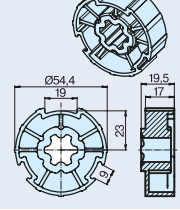
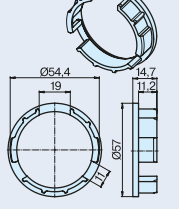

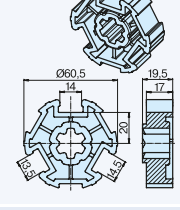
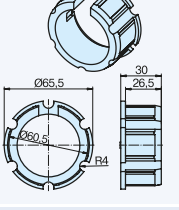

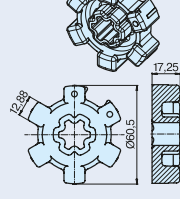
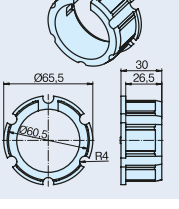

Drive adapter	Ring	App.*	Manu- facturer	Designation (Dimensions)	P5 – P13	R7 – R50	L44 – L120
			Butzbach, Rieko	Drive adapter B60	4930 300 046 0	4930 300 046 0	
				Ring B60	4930 030 707 1	4930 030 707 1	
				Intermediate ring 50 x 1.5	4930 300 102 0		
			Butzbach, Rieko	Drive adapter B75		4930 300 189 0	
				Ring B75		4931 010 707 4	
				Intermediate ring 63 x 1.5		4930 300 628 0	
			Butzbach	Drive adapter B75			4931 300 081 0
				Ring B75			4931 010 707 4
			Butzbach	Drive adapter B85			4931 300 082 0
				Ring B85			4931 020 707 4


**BECKER**

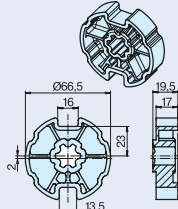
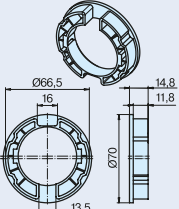

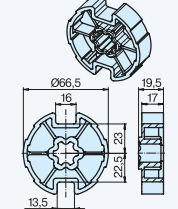
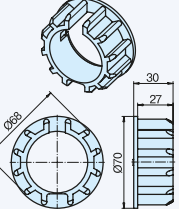

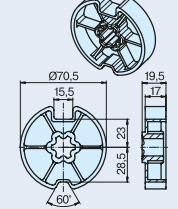
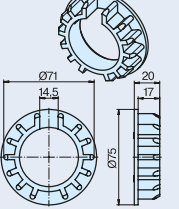

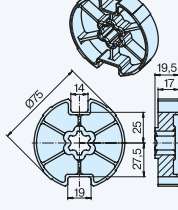
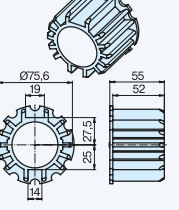

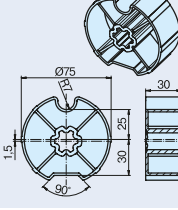
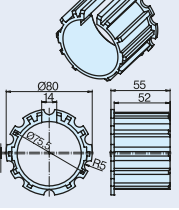

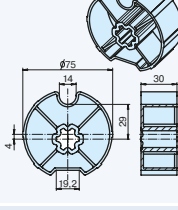
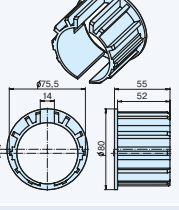

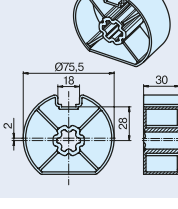
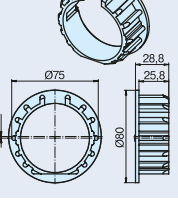



Drive adapters and rings

Grooved shaft

Drive adapter	Ring	App.*	Manu- facturer	Designation (Dimensions)	P5 – P13	R7 – R50	L44 – L120
				Drive adapter M40 Drive Wheel Universal	4930 300 408 0		
				Ring M40 Crown Wheel 43 mm	4930 300 409 0		
				Drive adapter M50 Drive Wheel Universal		4930 300 406 0	
				Ring M50 Crown Wheel 60 mm		4930 300 407 0	
				Ring M50 Crown Wheel 80 mm		4930 300 416 0	
				Drive adapter 50x2 Rolmatic	4930 300 103 0		
				Ring 50x2 Rolmatic	4930 300 104 0		
				Drive adapter 57,5	4930 300 173 0	4930 300 173 0	
				Ring 57,5	4930 300 174 0	4930 300 174 0	
				Intermediate ring 50x1.5	4930 300 102 0		
				Drive adapter 63N K to 25 Nm		4930 300 084 0	
				Ring 63N		4930 300 415 0	
				Drive adapter 63N D from 30 Nm		4930 300 052 0	
				Ring 63N		4930 300 415 0	

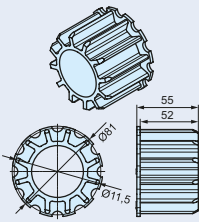
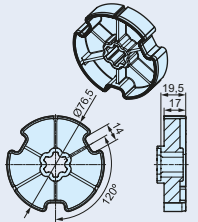

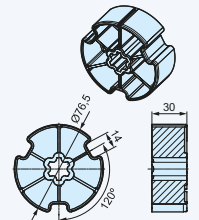
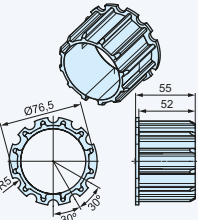

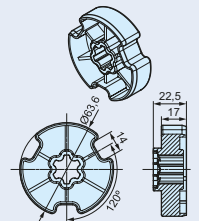
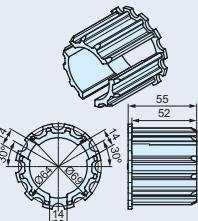

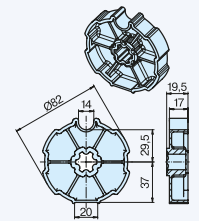
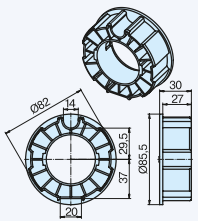

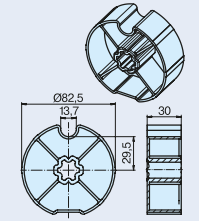
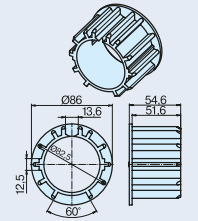

\*Application

Drive adapter	Ring	App.*	Manu- facturer	Designation (Dimensions)	P5 – P13	R7 – R50	L44 – L120
				Drive adapter Forjas 70		4930 300 217 0	
				Ring Forjas 70		4930 300 218 0	
				Drive adapter DW70N		4930 300 055 0	
				Ring DW70N		4930 070 707 0	
				Drive adapter DW74N		4930 300 056 0	
				Ring DW74N		4930 010 707 2	
				Drive adapter DW78R+F		4930 300 091 0	
				Ring DW78R+F		4930 300 033 0	
				Drive adapter DW78N 1,5 mm centre offset			4931 300 365 0
				Ring DW78N			4931 300 357 0
				Drive adapter DW78N 4 mm centre offset			4931 300 086 0
				Ring DW78N			4931 230 707 0
				Drive adapter DW78x1			4931 300 079 0
				Ring DW78x1			4931 210 707 1



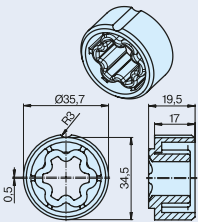

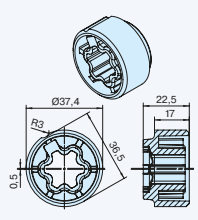
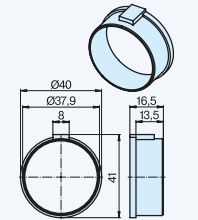

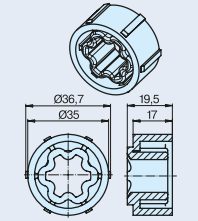
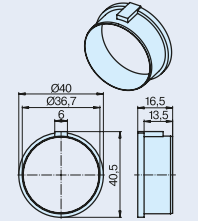

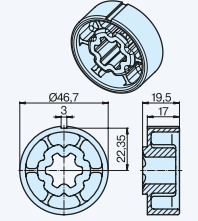
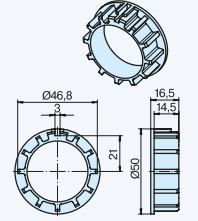

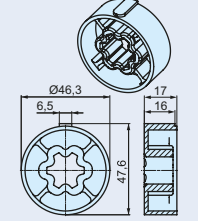
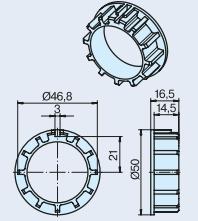

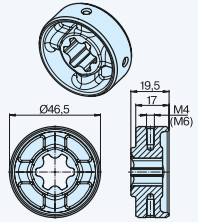
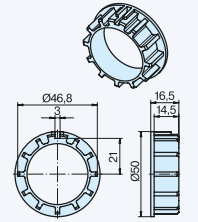

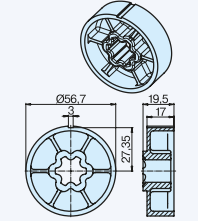
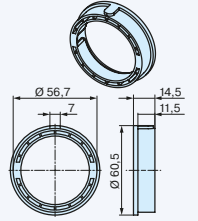

# Drive adapters and rings

## Grooved shaft

Drive adapter	Ring	App.*	Manu- facturer	Designation (Dimensions)	P5 – P13	R7 – R50	L44 – L120
				Drive adapter Optinut 81,8 Ring for R series		4930 300 529 0 4930 300 528 0	
				Drive adapter Optinut 81,8 Ring for L series			4931 300 371 0 4931 300 370 0
				Drive adapter Optinut 69x1,25 Ring for R series		4930 300 557 0 4930 300 556 0	
				Drive adapter DW85N Drive adapter from 40 Nm DW85N Ring DW85N		4930 300 065 0 4930 300 410 0 4930 300 066 0	
				Drive adapter DW85N Ring DW85N			4931 300 078 0 4931 300 227 0

\*Application      \*\*Barrel fits on the thrust ring of the drive

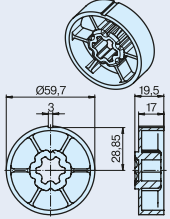
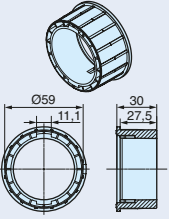

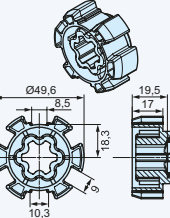
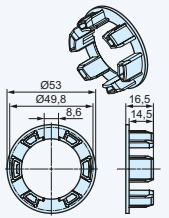

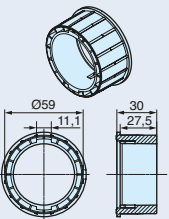

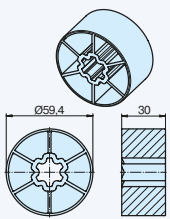

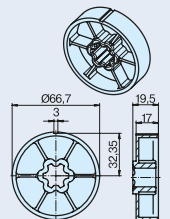
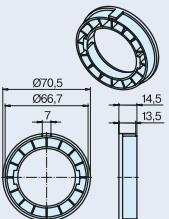

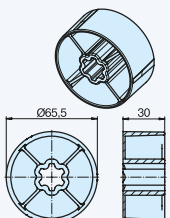
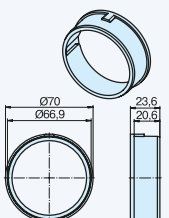

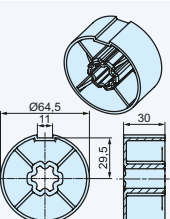
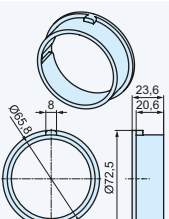

## Round tube

Drive adapter	Ring	App.*	Manu- facturer	Designation (Dimensions)	P5 – P13	R7 – R50	L44 – L120
				Drive adapter 38x1/40x2 ohne Ring**	4930 300 088 0		
				Drive adapter 40x1/42x2 Ring 40x1/42x2	4930 300 086 0 4930 300 087 0		
				Drive adapter 40x1.3/ 40x1.5 Ring 40x1.3/ 40x1.5	4930 300 195 0 4930 300 196 0		
				Drive adapter 50x1.5 Intermediate ring 50x1.5	4930 300 049 0 4930 300 102 0	4930 300 049 0 ohne Ring**	
				Drive adapter Siral 50 Intermediate ring 50x1.5	4930 300 050 0 4930 300 102 0	4930 300 050 0 ohne Ring**	
			Warema	Drive adapter 50x1.5 Thread M4 Intermediate ring 50x1.5	4930 300 420 0 4930 300 102 0	4930 300 420 0 ohne Ring**	
				Drive adapter 60x1.5 Ring 60x1.5 Intermediate ring 50x1.5	4930 300 075 0 4930 300 076 0 4930 300 102 0	4930 300 075 0 4930 300 076 0	

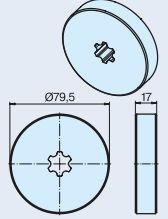
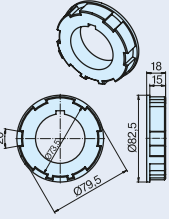

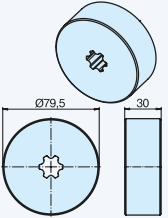
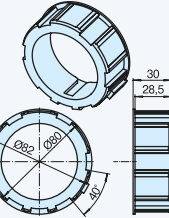

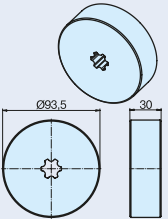
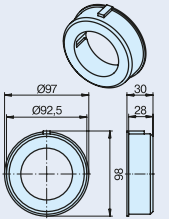

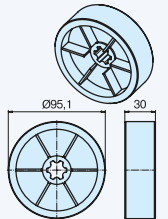
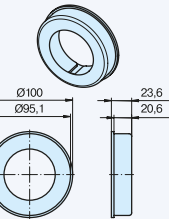

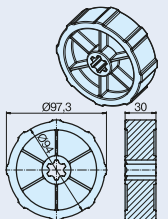
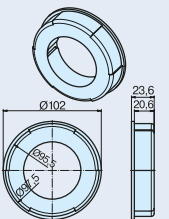

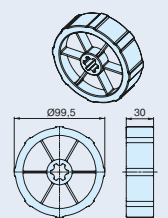
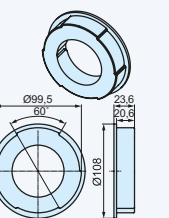

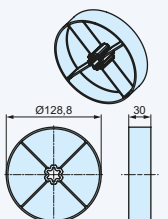
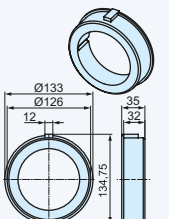



# Drive adapters and rings

## Round tube

Drive adapter	Ring	App.*	Manu- facturer	Designation (Dimensions)	P5 – P13	R7 – R50	L44 – L120
				Drive adapter 63x1.5  Ring 63x1.5  Intermediate ring 50x1.5	4930 300 059 0 4930 300 628 0 4930 300 102 0	4930 300 059 0 4930 300 628 0	
				Drive adapter HD50  Ring HD50	4930 300 593 0 4930 300 594 0		
				Intermediate ring 63x1.5		4930 300 628 0	
				Drive adapter 63x1.5			4931 300 083 0 ohne Ring**
				Drive adapter 70x1.5  Ring 70x1.5		4930 300 061 0 4930 300 062 0	
				Drive adapter 70x1.5  Ring 70x1.5			4931 300 084 0 4931 050 707 4
				Drive adapter 70x2  Ring 70x2			4931 300 085 0 4931 060 707 4

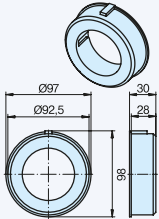

\*Application      \*\*Barrel fits on the thrust ring of the drive

Drive adapter	Ring	App.*	Manu- facturer	Designation (Dimensions)	P5 – P13	R7 – R50	L44 – L120
				Drive adapter 83x1.5/ 85x2.5  Ring 83x1.5/ 85x2.5		4930 300 098 0  4930 300 100 0	
				Drive adapter 83x1.5/ 85x2.5  Ring 83x1.5/ 85x2.5			4931 300 119 0  4931 300 125 0
				Drive adapter 98x2  Ring 98x2			4931 300 115 0 4931 300 126 0
				<b>R7 – R25</b> Drive adapter 100x2 Ring 100x2 Ring 63x1.5		4930 300 185 0 4931 300 160 0 4930 300 628 0	4931 300 167 0 4931 300 160 0
				Drive adapter 102x2  Ring 102x2			4931 300 104 0 4931 300 049 0
				Drive adapter 108x3.6  Ring 108x3.6			4931 300 155 0  4931 300 043 0
				Drive adapter 133x2  Ring 133x2			4931 300 120 0 4931 300 127 0

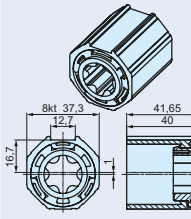
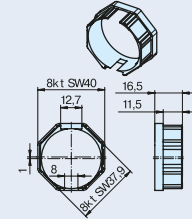

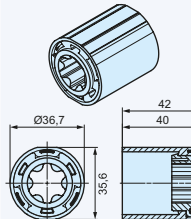
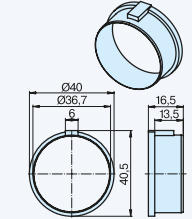

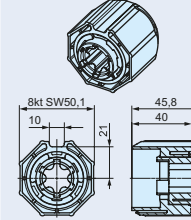
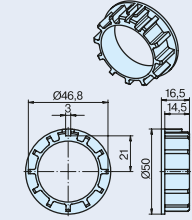

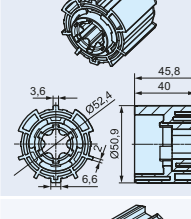
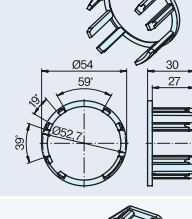

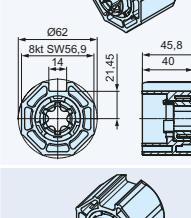
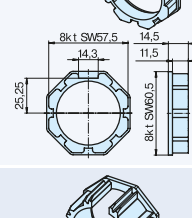

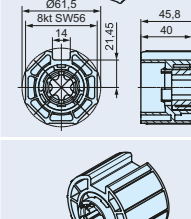
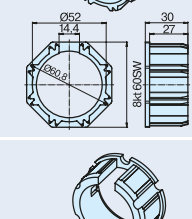

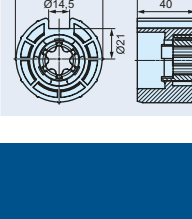
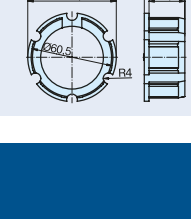



# Drive adapters and rings

## Round tube

Drive adapter	Ring	App.*	Manu- facturer	Designation (Dimensions)	P5 – P13	R7 – R50	L44 – L120
				Ring 98x2			4931 300 126 0

## Drive adapters and rings for sensitive obstacle detection

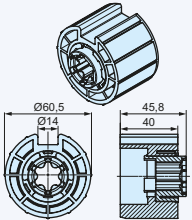
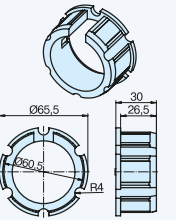

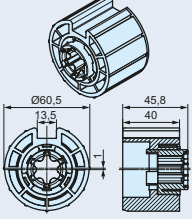
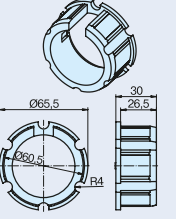

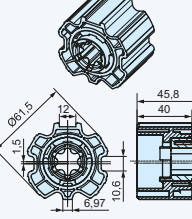
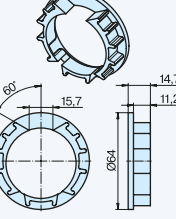

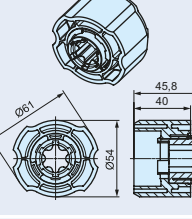

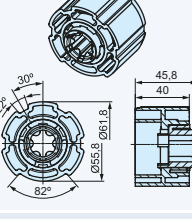
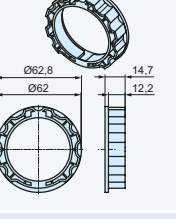

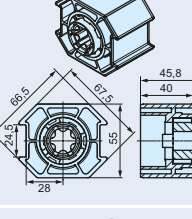
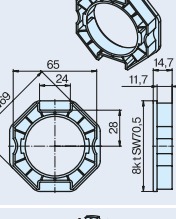

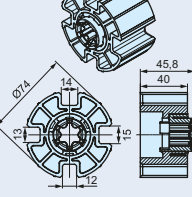
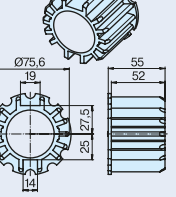

Drive adapter	Ring	App.*	Manu- facturer	Designation (Dimensions)	P5 – P13	R7 – R40	L44 – L120
				Drive adapter O-S40  Ring S40	4930 200 250 0  4930 300 085 0		
				Drive adapter O-40x1.3 / 40x1.5 Round shaft For P series obstacle detection  Ring 40x1.3 / 40x1.5	4930 200 246 0  4930 300 196 0		
				Drive adapter O-S50  Ring SW50  Intermediate ring 50x1.5	4930 200 229 0  4930 300 122 0  4930 300 102 0	4930 200 229 0  4930 300 122 0	
				Drive adapter O-ZF54  Ring ZF54  Intermediate ring 50x1.5	4930 200 230 0  4930 300 390 0  4930 300 102 0	4930 200 230 0  4930 300 390 0	
				Drive adapter O-Rolm 60  Ring Rolm 60  Intermediate ring 50x1.5	4930 200 223 0  4930 300 037 0  4930 300 102 0	4930 200 223 0  4930 300 037 0	
				Drive adapter O-S60  Ring S60 L  Intermediate ring 50x1.5	4930 200 222 0  4930 300 465 0  4930 300 102 0	4930 200 222 0  4930 300 465 0	
				Drive adapter O-63N 14,5 mm  Ring 63N  Intermediate ring 50x1,5	4930 200 275 0  4930 300 415 0  4930 300 102 0	4930 200 275 0  4930 300 415 0	

\*Application

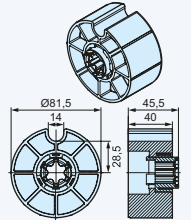
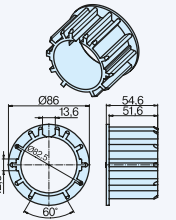

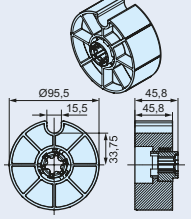
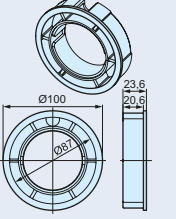

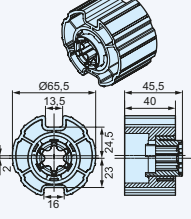
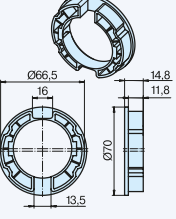



# Drive adapters and rings

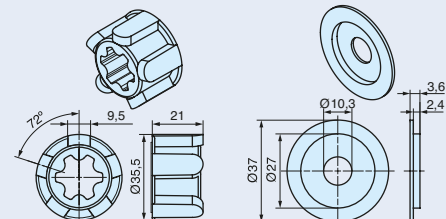


Drive adapters and rings for sensitive obstacle detection

Drive adapter	Ring	App.*	Manu- facturer	Designation (Dimensions)	P5 – P13	R7 – R40	L44 – L120
				Drive adapter O-63N 14,0 mm	4930 200 276 0	4930 200 276 0	
				Ring 63N	4930 300 415 0	4930 300 415 0	
				Intermediate ring 50x1,5	4930 300 102 0		
				Drive adapter O-63N 13,5 mm	4930 200 277 0	4930 200 277 0	
				Ring 63N	4930 300 415 0	4930 300 415 0	
				Intermediate ring 50x1,5	4930 300 102 0		
				Drive adapter O-ZF64	4930 200 231 0	4930 200 231 0	
				Ring ZF64x0.8	4930 300 141 0	4930 300 141 0	
				Intermediate ring 50x1.5	4930 300 102 0		
				Drive adapter O-HM65	4930 200 245 0	4930 200 245 0	
				Ring HM65	4930 080 707 0	4930 080 707 0	
				Intermediate ring 50x1.5	4930 300 102 0		
				Drive adapter O-E65	4930 200 249 0	4930 200 249 0	
				Ring E65	4930 040 707 2	4930 040 707 2	
				Intermediate ring 50x1.5	4930 300 102 0		
				Drive adapter O-SM70	4930 200 236 0	4930 200 236 0	
				Ring SM70	4930 000 607 0	4930 000 607 0	
				Intermediate ring 50x1.5	4930 300 102 0		
				Drive adapter O-DW78 R+F		4930 200 274 0	
				Ring DW78 R+F		4930 300 033 0	

\*Application

Drive adapter	Ring	App.*	Manu- facturer	Designation (Dimensions)	P5 – P13	R7 – R40	L44 – L120
				Drive adapter O-D85N		4930 200 271 0	
				Ring DW85N		4931 300 227 0	
				Intermediate ring 63x1,5		4930 300 628 0	
				Drive adapter O-D100		4930 200 278 0	
				Ring DW100		4931 300 336 0	
				Intermediate ring 63x1,5		4930 300 628 0	
				Drive adapter Forjas 70		4930 200 279 0	
				Ring Forjas 70		4930 300 218 0	

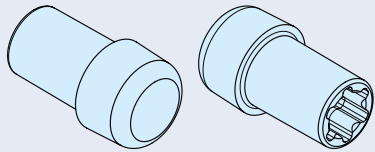
## Adapter kit for R series Tubular drives R7 – R50

	Name	Application	Item number
		 BS adaptation kit for R series	4930 200 282 0
		 consisting of: Drive shaft adapter BS to 40 Nm and Drive adapter safety catch BS to 40 Nm	4930 300 291 0 4930 300 292 0








# Drive adapters and rings

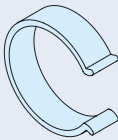

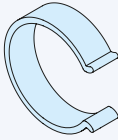

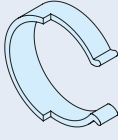

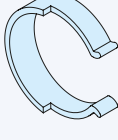

## Dismantling tool for drive adapters

	Name	Application	Item number
	Dismantling tool for drive adapters		4930 300 606 0

## Fasteners for drive adapters

Name	Application	R7–R20	R30 – R120	L44 – L120
Drive adapter safety catch		4930 300 161 0		
Tooth lock washer			9900 101 679 7	
Screw M6			9901 250 091 2	
Screw M6 for drive adapter 102 / 125-octagonal				9901 252 091 2
Washer for drive adapter 102 / 125-octagonal				4931 300 161 0

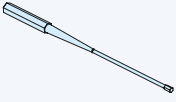

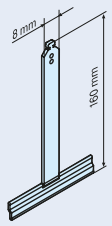

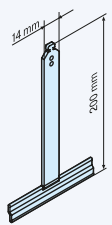





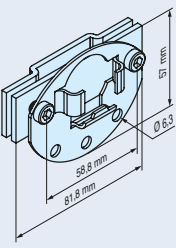

# Cover clips

Cover clip	Application	Designation	Item number
		Cover clip white for Pico without strip	4930 300 490 0
		Cover clip black for Pico without strip	4930 300 491 0
		Cover clip white for Pico with strip	4930 300 492 0
		Cover clip black for Pico with strip	4930 300 493 0



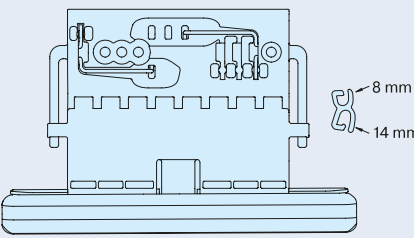

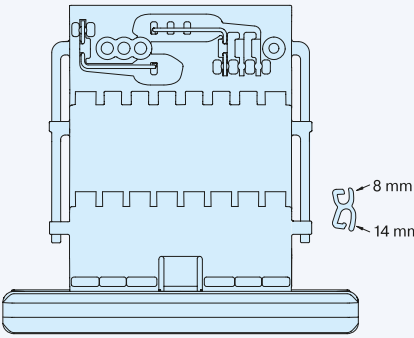

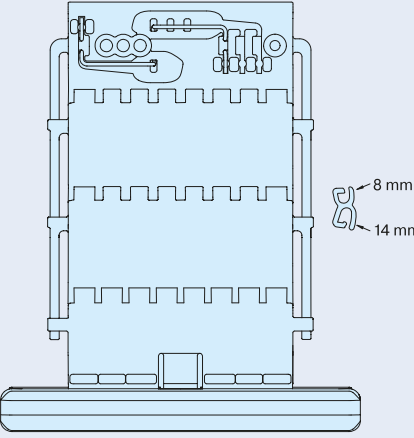



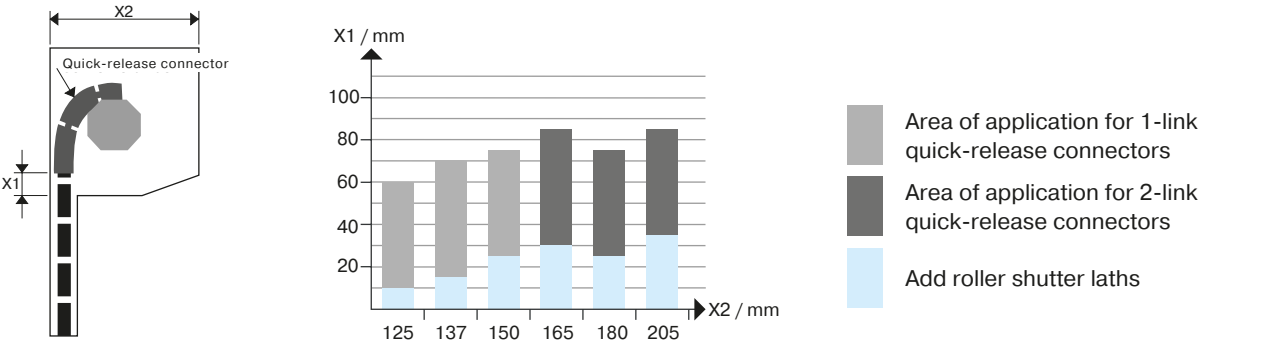
Setting tools / suspension springs

	Name	Application	Packaging unit	Item number
	Flexible setting tool			4933 300 029 0
	Mini suspension spring	<ul style="list-style-type: none"><li>For roller shutter curtain with Mini profile, width 8 mm, length 160 mm</li></ul> 	100 units	4930 300 338 0
	Maxi suspension spring	<ul style="list-style-type: none"><li>For roller shutter curtain with Maxi profile, width 14 mm, length 200 mm</li></ul> 	100 units	4930 300 337 0
	Shaft clamp S40	<ul style="list-style-type: none"><li>For S40 suspension springs</li><li>For clipping onto the shaft</li><li>Suspension springs are hooked into the shaft clamp</li><li>For protecting the drive against friction damage</li></ul> 		4930 300 307 0
	Shaft clamp S50	<ul style="list-style-type: none"><li>For S50 suspension springs</li><li>For clipping onto the shaft</li><li>Suspension springs are hooked into the shaft clamp</li><li>For protecting the drive against friction damage</li></ul> 		4930 300 618 0
	Ball bearing Complete conversion set	<ul style="list-style-type: none"><li>For P and R series to 30 Nm</li></ul> 		4930 200 255 0

Rigid shaft connectors

Rigid safety springs

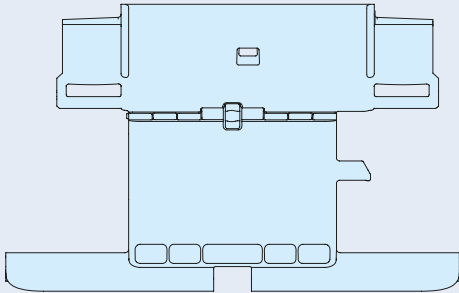
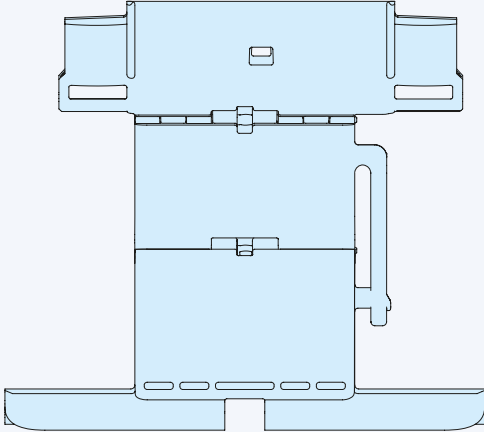
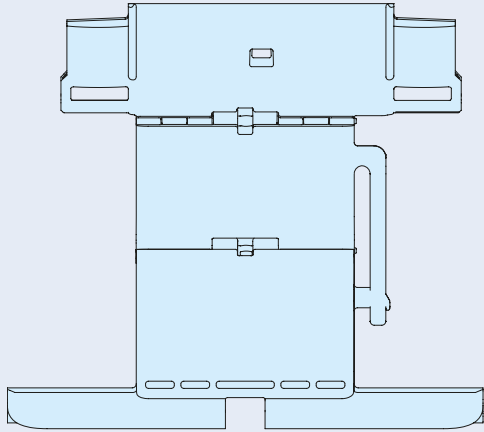
	Name	Application	Item number
	Rigid safety spring 1-link	<ul style="list-style-type: none"><li>For 50 mm and 60 mm shaft diameters</li><li>With mounting profile for 8 mm and 14 mm roller shutter laths</li><li>Roller shutter tubular drives with automatic detection of anti-lifting devices (+-types, e. g. PR+, C01 etc.)</li></ul> 	4902 000 306 0
	Rigid safety spring 2-link	<ul style="list-style-type: none"><li>For 50 mm and 60 mm shaft diameters</li><li>With mounting profile for 8 mm and 14 mm roller shutter laths</li><li>Roller shutter tubular drives with automatic detection of anti-lifting devices (+-types, e. g. PR+, C01 etc.)</li></ul> 	4902 000 307 0
	Rigid safety spring 3-link	<ul style="list-style-type: none"><li>For 50 mm and 60 mm shaft diameters</li><li>With mounting profile for 8 mm and 14 mm roller shutter laths</li><li>Roller shutter tubular drives with automatic detection of anti-lifting devices (+-types, e. g. PR+, C01 etc.)</li></ul> 	4902 000 308 0

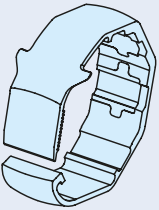
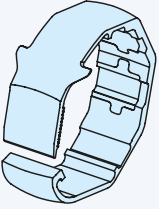
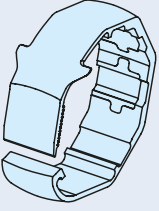


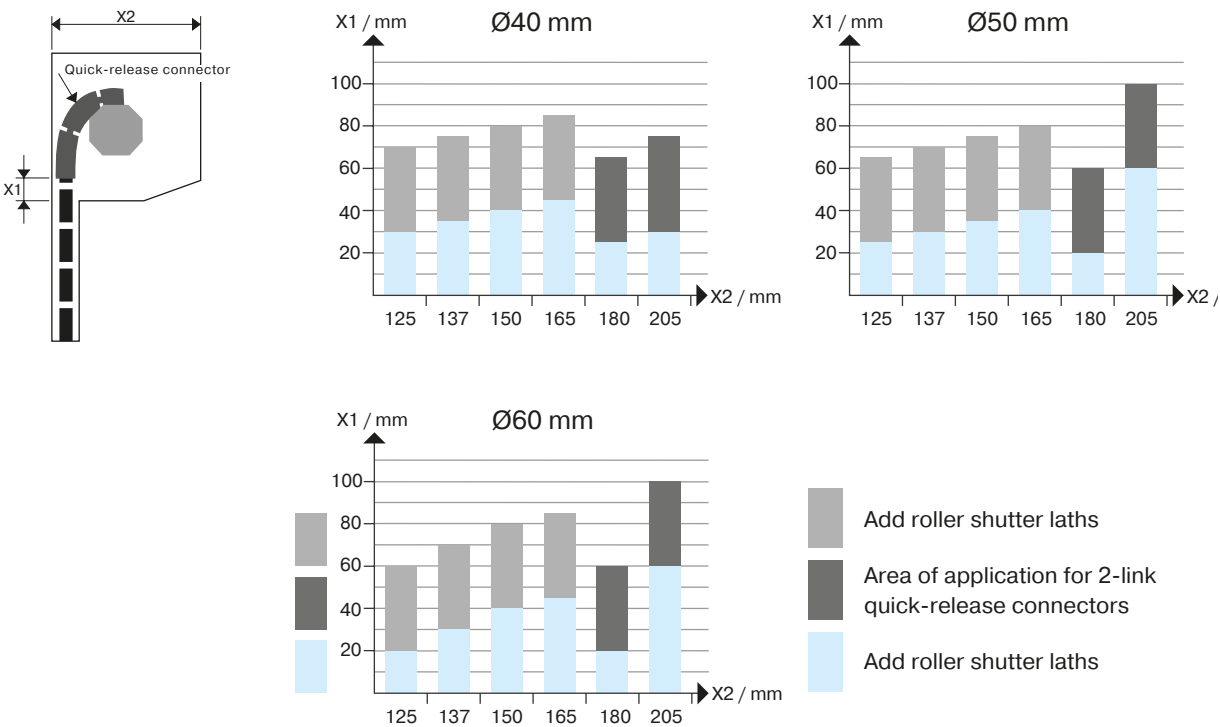


# Rigid shaft connectors

Rigid quick-release connectors for size 40 shafts

	Name	Application	Item number
	Rigid quick-release connector 1-link	<ul style="list-style-type: none"><li>For sizes 40, 50 and 60 octagonal shafts</li><li>With mounting profile for 8 mm to 11 mm roller shutter laths</li><li>Roller shutter tubular drives with automatic detection of anti-lifting devices</li></ul>	4902 000 309 0
	Rigid quick-release connector 2-link	<ul style="list-style-type: none"><li>For size 40 octagonal shafts</li><li>With mounting profile for 8 mm to 11 mm roller shutter laths</li><li>Roller shutter tubular drives with automatic detection of anti-lifting devices</li></ul>	4902 000 310 0
	Rigid quick-release connector 2-link	<ul style="list-style-type: none"><li>For sizes 50 and 60 octagonal shafts</li><li>With mounting profile for 8 mm to 11 mm roller shutter laths</li><li>Roller shutter tubular drives with automatic detection of anti-lifting devices</li></ul>	4902 000 312 0

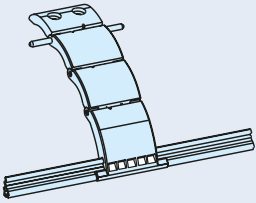

	Name	Application	Item number
	Ring for rigid quickrelease connector	<ul style="list-style-type: none"><li>For size 40 octagonal shafts</li></ul>	4902 000 311 0
	Ring for rigid quickrelease connector	<ul style="list-style-type: none"><li>For size 50 octagonal shafts</li></ul>	4902 000 313 0
	Ring for rigid quickrelease connector	<ul style="list-style-type: none"><li>For size 60 octagonal shafts</li></ul>	4902 000 314 0





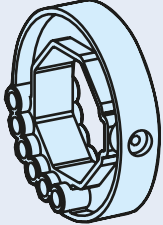

# Rigid shaft connectors

## Anti-lifting device

	Name	Application	Item number
	1-link, profile 8 mm		4902 000 250 0
	2-link, profile 8 mm		4902 000 251 0
	3-link, profile 8 mm		4902 000 252 0
	2-link, profile 14 mm		4902 000 254 0
	3-link, profile 14 mm		4902 000 255 0
	4-link, profile 14 mm		4902 000 256 0

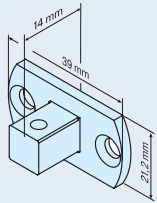


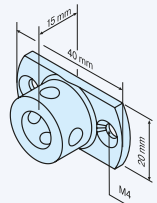


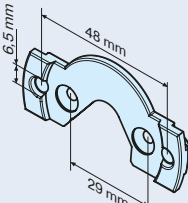


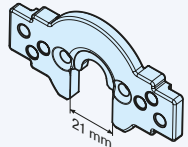


Two fastening rings are needed for each anti-lifting device; the gap between two anti-lifting devices should not be greater than 70 cm.

## Fastening ring

	Name	Application	Item number
	SW 40	<ul style="list-style-type: none"><li>■ P5-E01 ... P9-E01</li><li>■ P5-C01 ... P9-C01</li><li>■ P5/20PR+ – P9/16PR+</li></ul>	4902 000 257 0
	SW 60	■ R8-E01 ... R40-E01	4902 000 258 0
	SW 70	<ul style="list-style-type: none"><li>■ R8-E03 ... R20-E03</li><li>■ R8-C01 ... R40-C01</li></ul>	4902 000 259 0
			

# Connecting pieces

## Tubular drives P5 – P13

	Name	Application	Item number
	Connecting piece-P 4K-10 including screws, with square, 10 mm	 Drives for roller shutters P5 – P13  Drives for sun protection P5 – P13	4930 200 140 0
	Connecting piece-P 20-round including screws, with round pin Ø 20 mm	 Drives for roller shutters P5 – P13  Drives for sun protection P5 – P13	4930 200 139 0
	Mini strip-P C-Plug M6/48 including screws	 Drives for roller shutters P5 – P13  Drives for sun protection P5 – P13	4930 200 232 0
	B-strip-P C-Plug	 Drives for roller shutters P5 – P13  Drives for sun protection P5 – P13	4930 200 234 0

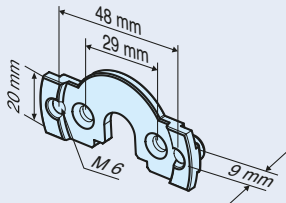

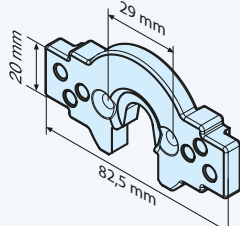


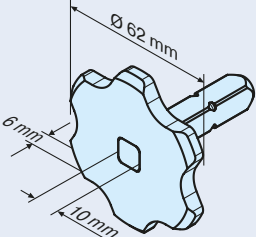


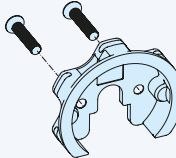


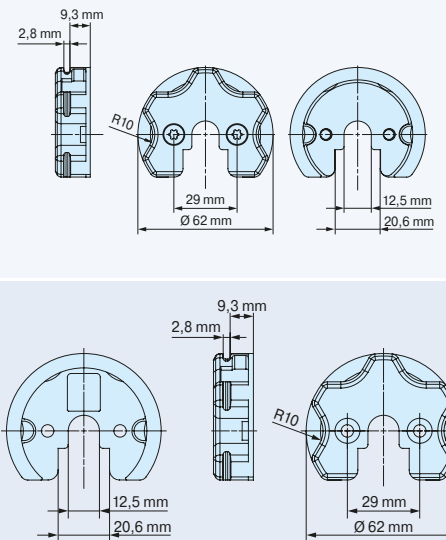





# Connecting pieces

## Tubular drives R7 – R50

	Name	Application	Item number
	Mounting pin-R 1/10 Square 10 mm	 Drives for roller shutters R7 – R50  Drives for sun protection R7 – R50	4930 200 026 0
	Mounting pin-R 2/10 Square 10 mm	 Drives for roller shutters R7 – R50  Drives for sun protection R7 – R50	4930 200 030 0
	Mounting pin-R 3/20 round, d=20 mm	 Drives for roller shutters R7 – R50  Drives for sun protection R7 – R40	4930 300 159 0
	Mounting pin-R 4/12 Square 12 mm	 Drives for roller shutters R7 – R50  Drives for sun protection R7 – R50	4930 300 412 0
	Mounting pin-R 4/16-10 Square 16 x 10 mm	 Drives for roller shutters R7 – R50  Drives for sun protection R7 – R50	4930 300 449 0
	Mounting pin-R 4/16-10 Square 16x10 mm Hole diameter Ø 8,5 mm	 Drives for roller shutters R7 – R50  Drives for sun protection R7 – R50	4930 300 627 0
	Mounting pin-R 4/16 Square 16 mm	 Drives for roller shutters R7 – R50  Drives for sun protection R7 – R50  <b>Note:</b> For wall brackets with 16 mm square receptacle (4931...)	4930 200 052 0

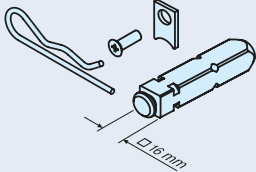


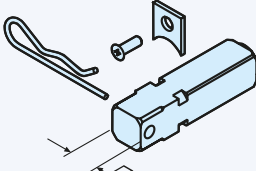


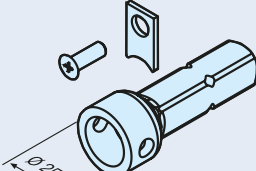


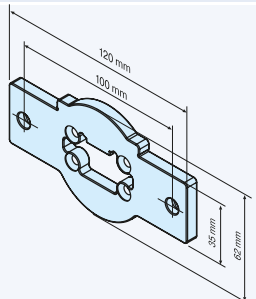

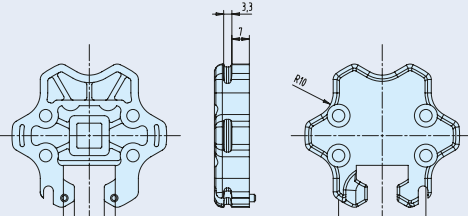


	Name	Application	Item number
	Mini strip-R C-plug Mini strip M6/48 including screws	 Drives for roller shutters R7 – R20	4930 200 244 0
	B-strip-R C-plug including screws	 Drives for roller shutters R8 – R40  Drives for sun protection R8 – R30	4930 200 235 0
	Star connecting piece	 Drives for roller shutters R7 – R50  Drives for sun protection R7 – R50	4930 200 260 0
	Star adapter set  Star adapter incl. fastening screws	 Drives for roller shutters R7 – R30   Drives for roller shutters P4 – P9	4930 200 265 0  4930 200 299 0
	Staradapter without fastening material	 Drives for roller shutters P4 – R30	4930 300 582 0





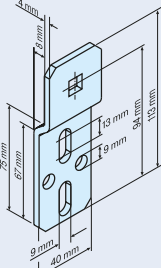

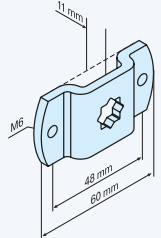

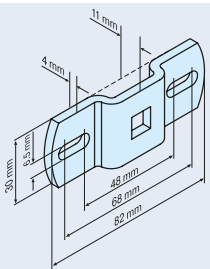

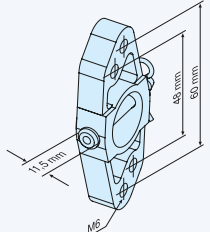


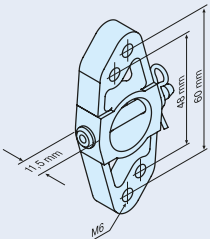


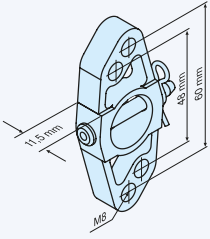


Connecting pieces

Tubular drives L44 – L120

	Name	Application	Item number
	Mounting pin-L 1/16 Square, 16 mm	 Drives for roller shutters L44 – L120  Drives for sun protection L44 – L120	4931 200 040 0
	Mounting pin-L 2/16 Square, 16 mm	 Drives for roller shutters L44 – L120  Drives for sun protection L44 – L120 <b>Note:</b> For wall brackets with 16 mm square receptacle (4931 ...)	4931 200 034 0
	Mounting pin-L 3/25 round, d=25 mm	 Drives for roller shutters L44 – L120  Drives for sun protection L44 – L120	4931 200 035 0
	B-strip-L	 Drives for roller shutters (one-sided load) L44/14 – L80/11	4931 300 169 0
	Star adapter-L	 Drives for roller shutters L44-L120  Drives for sun protection L44-L120	4931 300 416 0

Wall brackets, box brackets, system brackets and awning brackets

Tubular drives P5 – P13 and R7 – R50

	Name	Application	Item number
	Box bracket-P/R 4K-10 with square 10 mm for mounting pin 1/10 and 2/10 and connecting piece 10 mm	 Drives for roller shutters (one-sided load) R7 – R50	4930 300 051 0
	Awning bracket-P/R star-10 with star for mounting pins 1/10 and 2/10 and connecting piece Ø 10 mm	 Drives for sun protection R7 – R50	4930 300 053 0
	Awning bracket-P/R 4K-10 with square 10 mm for mounting pin 1/10 and 2/10 and connecting piece Ø 10 mm	 Drives for sun protection R7 – R50	4930 300 040 0
	Awning bracket M6 with spigot for mounting pin 3/20	 Drives for roller shutters R7 – R40  Drives for sun protection R7 – R40	4930 200 043 0
	Awning bracket M6 without spigot for mounting pin 3/20	 Drives for roller shutters R7 – R40  Drives for sun protection R7 – R40	4930 000 728 0
	Awning bracket M8 with spigot for mounting pin 3/20	 Drives for roller shutters R7 – R40  Drives for sun protection R7 – R40	4930 200 044 0

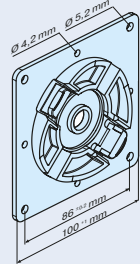
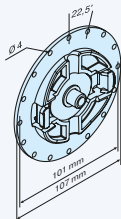
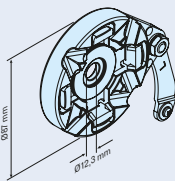
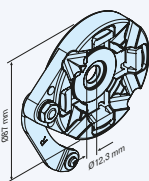
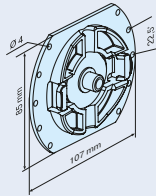
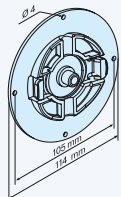


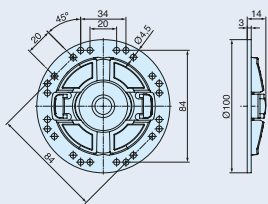
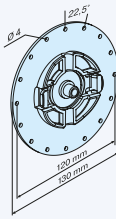
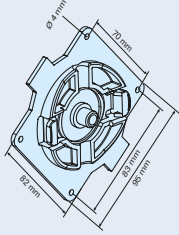
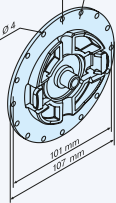
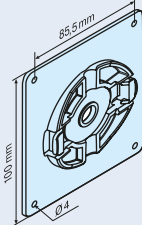
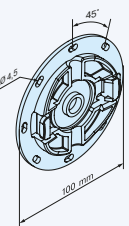




# Wall brackets, box brackets, system brackets and awning brackets

Tubular drives P5 – P13 and R7 – R50

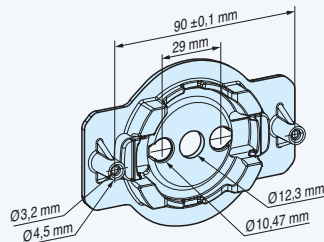
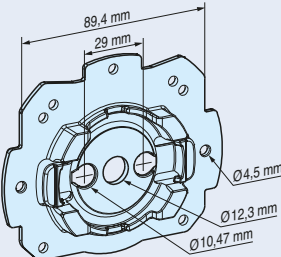
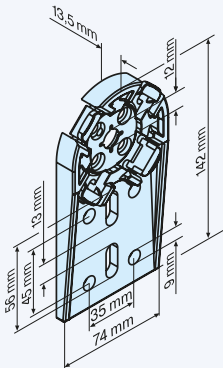
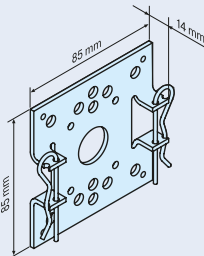
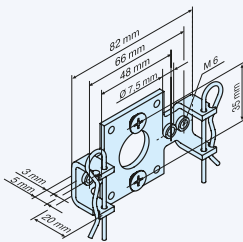
	Name	Application	Item number
	Wall bracket-P/R Exte with catch for mini strip and EXTE and Alukon head piece	Drives for roller shutters P5 – P13 R7 – R20	4930 300 524 0
	Wall bracket-P/R Gealan with catch for mini strip and Gealan head piece	Drives for roller shutters P5 – P13 R7 – R20	4930 300 525 0
	Wall bracket Heroal left	Drives for roller shutters P5 – P13 R7 – R20	4930 200 262 0
	Wall bracket Heroal right	Drives for roller shutters P5 – P13 R7 – R20	4930 200 263 0
	Wall bracket-P/R Inoutic with catch for mini strip and Inoutic head piece	Drives for roller shutters P5 – P13 R7 – R20	4930 300 359 0
	Wall bracket-P/R Kömmerling with catch for mini strip and Kömmerling head piece	Drives for roller shutters P5 – P13 R7 – R20	4930 300 357 0

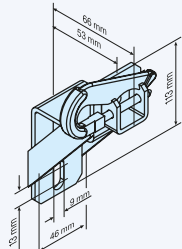
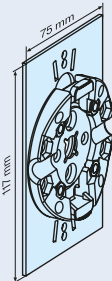
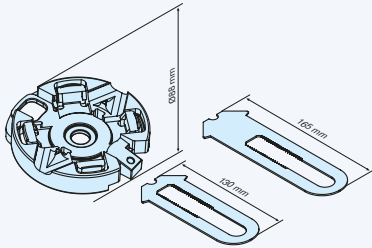
	Name	Application	Item number
	Wall bracket Lakal with catch for mini strip and Lakal head piece	Drives for roller shutters P5 – P13 R7 – R20	4930 300 389 0
	Wall bracket-P/R Profine with catch for mini strip and VariNova head piece	Drives for roller shutters P5 – P13 R7 – R20	4930 300 496 0
	Wall bracket-P/R SKS with catch for mini strip and SKS head piece	Drives for roller shutters P5 – P13 R7 – R20	4930 300 591 0
	Wall bracket-P/R Veka with catch for mini strip and VEKA head piece	Drives for roller shutters P5 – P13 R7 – R20	4930 300 355 0
	Wall bracket-P/R Vekavariant with catch for mini strip and VEKAVARIANT and Alukon head piece	Drives for roller shutters P5 – P13 R7 – R20	4930 300 419 0
	Wall bracket with catch for mini strip and ZF head piece	Drives for roller shutters P5 – P13 R7 – R20	4930 300 413 0



# Wall brackets, box brackets, system brackets and awning brackets

Tubular drives P5 – P13 and R7 – R50

	Name	Application	Item number
	Wall bracket with catch ZF	Drives for roller shutters to 20 Nm	4930 300 585 0
	Wall bracket with catch 2 ZF	Drives for roller shutters to 20 Nm	4930 300 586 0
	New build bracket-P/R with catch for mini strip	Drives for roller shutters R7 – R20	4930 300 418 0
	Plate bracket-R 85x85 for B-strip	Drives for roller shutters R7 – R40	4930 200 082 0
	Plate bracket-R for B-strip	Drives for roller shutters R7 – R40	4930 200 007 0

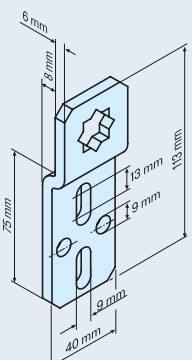

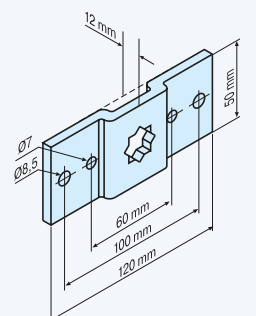

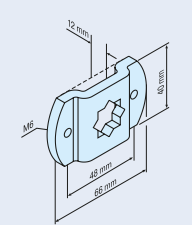

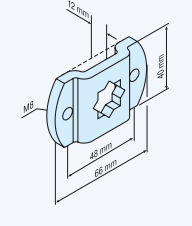

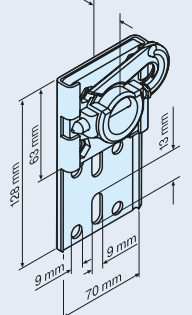

	Name	Application	Item number
	Box bracket-P/R 3/20 offset for mounting pin 3/20	Drives for roller shutters R7 – R50	4930 200 098 0
	Wall bracket-P/R with catch including plate	Drives for roller shutters R7 – R20	4930 200 186 0
	Universal frontmounting clamp bracket for covering cap sizes 125 – 165  Universal frontmounting clamp bracket for covering cap sizes 180 – 230	Drives for roller shutters R7 – R20	4930 200 261 0  4930 200 264 0

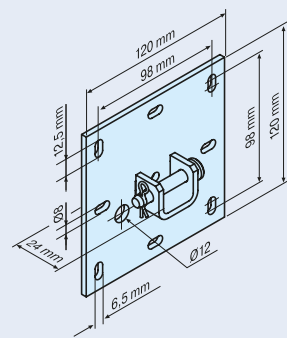

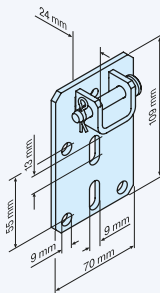

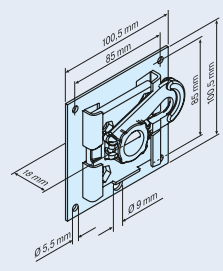

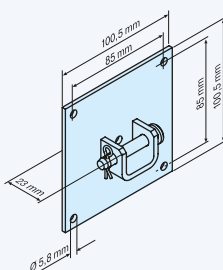

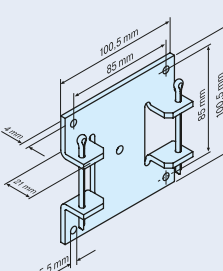





# Wall brackets, box brackets, system brackets and awning brackets

Tubular drives L44 – L120

	Name	Application	Item number
	Box bracket-L star-16 with star for mounting pins 1/16, 2/16 und 4/16	 Drives for roller shutters R12 – L120	4931 300 091 0
	Drive bracket-L star-16 with star for mounting pins 1/16, 2/16 and 4/16	 Drives for roller shutters R12 – L120	4931 300 096 0
	Awning bracket-L star-16 M6 with star and M6 for mounting pin 1/16, 2/16 and 4/16	 Drives for sun protection L44 – L120	4931 300 094 0
	Awning bracket-L star-16 M8 with star and M8 for mounting pin 1/16, 2/16 and 4/16	 Drives for sun protection L44 – L120	4931 300 209 0
	Universal wall bracket-L 3/25 for mounting pin 3/25	 Drives for roller shutters L44/14 – L60/11	4931 200 006 0

	Name	Application	Item number
	Plate bracket-L B120 3/25 for mounting pin 3/25	 Drives for roller shutters L44 – L120	4931 000 607 2
	Combination bracket-L 3/25 for mounting pin 3/25	 Drives for roller shutters L44 – L120	4931 030 607 0
	Motor bracket-L 3/25 for covering cap for mounting pin 3/25	 Drives for roller shutters L50 – L60	4931 200 041 0
	Drive bracket-L cover 3/25 for covering cap for mounting pin 3/25	 Drives for roller shutters L44 – L200	4931 200 042 0
	Plate bracket-L for B-strip	 Drives for roller shutters L44 – L80	4931 200 060 0



# Wall brackets, box brackets, system brackets and awning brackets

Tubular drives L44 – L120

	Name	Application	Item number
	Awning bracket M6 with spigot for mounting pin 3/25	Drives for sun protection L44 – L80  Drives for conservatory shades (alternating load) L44 – L50	4931 200 049 0
	Awning bracket M6 without spigot for mounting pin 3/25	Drives for sun protection L44 – L80  Drives for conservatory shades (alternating load) L44 – L50	4931 010 728 0
	Awning bracket M8 with spigot for mounting pin 3/25	Drives for sun protection L44 – L80  Drives for conservatory shades (alternating load) L44 – L50	4931 200 050 0
	Awning bracket M8 without spigot for mounting pin 3/25	Drives for sun protection L44 – L80  Drives for conservatory shades (alternating load) L44 – L50	4931 010 726 0

# Accessories for tubular drives with crank connection

R12 – L120

	Name	Application	Item number
	Eye with hexagonal rod SW 7 mm 70-HK		4930 200 131 0
	250-HK		4930 200 124 0
	450-HK		4930 200 125 0
	Pivoting bearing with hexagonal rod 90° SW 7 mm connecting peg for crank Ø 12 mm		4931 200 070 0
	Rod with length:: 1600 mm		4930 200 294 0
	Secure clip for pivoting bearing Ø 18,3 x 10 mm	<b>Note:</b> Permanently mounted crank	4930 200 295 0
	Anchoring clip for wall mounting	<b>Note:</b> Accessories for permanently mounted cranks	4930 200 146 0
	Pivoting bearing with hexagonal rod 45° SW 7 mm connecting peg for crank Ø 12 mm		4931 200 071 0
	Eye with hexagonal rod 450-k-HK can be shortened, SW 7 mm		4930 200 188 0
	Extension rod 330-HK Hexagonal SW 7 mm		4931 200 073 0
	Connecting sleeve HK with internal hexagon, SW 7 mm		4931 200 074 0





## R12 - L120

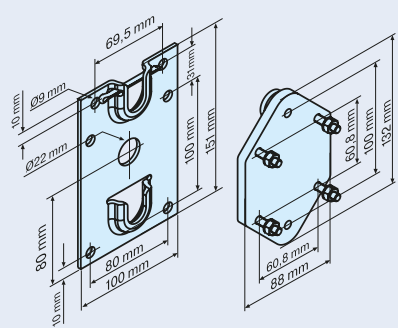

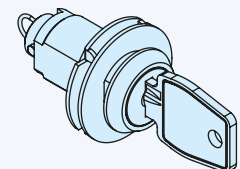

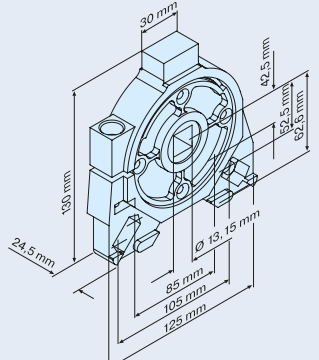
## Connecting pieces

**MECHANICAL ACCESSORIES**

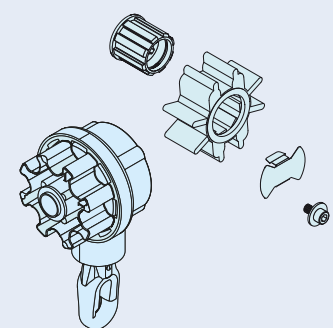



# Accessories for tubular drives with crank connection

## Connecting pieces

	Name	Application	Item number
	Plate bracket-HK with adapter plate and fastening screws	 Drives for roller shutters and roller doors L44 – L120	4931 200 084 0
	Release lock HK Removable cylinder	 Drives for roller shutters and roller doors R12-R50 L44-L120	4930 200 281 0
	Anti-unrolling device TA-0-RD, square, 16 mm  2522 110 000 0 Mounting plate for 2522 101 000 0  2522 200 001 0 Shaft pin 70-4-16 compl.	max. operating torque: 145 Nm, max. operating speed: 22 rpm, max. arresting torque: 365 Nm	2522 101 000 0

# Accessories for sun protection drives with emergency manual operation

	Name	Application	Item number
	Awning NHK accessories set  consisting of: Bevel gearbox and adapter set DW78N	 Drives for sun protection R20 – R40	4007 200 070 0



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for various lintel boxes, attachment elements or top elements  
for mechanical, electronic or remote drives

1. New construction area,  
predominantly for lintel boxes

Required is a:  
Universal wall bracket

Item no. 4930 200 005 0

page 212 in the catalogue (Mechanical Accessories)

with mounting pin 3

Item no. 4930 300 159 0

page 208 in the catalogue (Mechanical Accessories)

2. Attachment element:  
Mounting on the facade

Required is a:  
Universal front mounting clamp bracket 125 – 165

Item no. 4930 200 261 0

page 217 in the catalogue (Mechanical Accessories)

or larger  
Universal front mounting clamp bracket 165 – 230

Item no. 4930 200 264 0

page 217 in the catalogue (Mechanical Accessories)

or  
Wall bracket with catch in combination with Mini strip  
for D = 35 mm or D = 45 mm tubular drives

Item no. 4930 300 382 0

page 213 in the catalogue (Mechanical Accessories)

in conjunction  
with Mini strip-P

Item no. 4930 200 232 0

page 207 in the catalogue (Mechanical Accessories)

with Mini strip-R

Item no. 4930 200 244 0

page 209 in the catalogue (Mechanical Accessories)

with mounting pin 3

Item no. 4930 300 159 0

page 208 in the catalogue (Mechanical Accessories)

with mounting pin on the right

Item no. 4930 200 207 0

page 213 in the catalogue (Mechanical Accessories)

3. Attachment element:  
Mounting directly on the window

Required is a:  
Wall bracket with catch 2 for D = 35 mm or D = 45 mm  
tubular drives

Item no. 4930 300 382 0

page 213 in the catalogue (Mechanical Accessories)

in conjunction  
with Mini strip-P

Item no. 4930 200 232 0

page 207 in the catalogue (Mechanical Accessories)

with Mini strip-R

Item no. 4930 200 244 0

page 209 in the catalogue (Mechanical Accessories)

or  
a system bracket for the manufacturers: Exte, Gealan, Inoutic,  
Kömmerling, Profine, SKS, Thyssen and Veka  
page 211 in the catalogue (Mechanical Accessories)

For higher torques of up to 30 Nm and 40 Nm,  
the B-strip is required

Item no. 4930 200 235 0

page 209 in the catalogue (Mechanical Accessories)

with plate bracket

Item no. 4930 200 007 0

page 216 in the catalogue (Mechanical Accessories)

4. Retrofit for old constructions or  
existing behind-plaster bracket

Required is a:  
Conversion bracket 1

Item no. 4930 200 077 0

page 212 in the catalogue (Mechanical Accessories)

or  
Conversion bracket 2

Item no. 4930 200 207 0

page 213 in the catalogue (Mechanical Accessories)



## Notes

## Notes



# General conditions of sale

General conditions of sale of BECKER-Antriebe GmbH, Sinn, Germany

**§1 Validity of the terms and conditions**

All contractual relations between BECKER-Antriebe GmbH (hereinafter referred to as the Manufacturer), as the seller, and its customers (hereinafter referred to as the Purchaser), as the buyers, shall from 1 March 2021 be subject exclusively to the following General Conditions of Sale (AVB). Under the above premise, these shall also apply to all future business relations, even if they are not expressly agreed again. When the Purchaser orders goods based on the Manufacturer's quotation, these terms and conditions shall be considered to be accepted. Any counterprovisions of the Purchaser with reference to their General or Purchasing Terms and Conditions are hereby negated. Such provisions shall only apply if the Manufacturer has expressly agreed to them in advance. All agreements which are reached between the Manufacturer and the Purchaser and which the Manufacturer is obliged to adhere to for the purpose of implementing the Contract must be put in writing in order to take effect.

**§2 Offer and placing of orders**

Offers from the Manufacturer that are not expressly defined in writing as binding are not legally binding. Orders placed by the Purchaser are legally binding contractual offers. Documents that form part of the offer, such as catalogues, figures, drawings, specifications of weights and dimensions, are only approximate unless expressly designated as binding or the contractual usability and functionality of the purchased items is compromised by subsequent deviations. The Manufacturer retains proprietary rights and copyrights to all cost proposals, drawings, samples and other documents. These must not be made accessible to third parties. The Manufacturer is obliged to only give third parties access to plans designated by the Purchaser as confidential with the Purchaser's consent.

**§3 Prices**

As long as nothing in the order confirmation is stated to the contrary, prices are ex works including loading, but excluding packaging, freight, carriage and insurance. Statutory VAT is not included in the prices. This is stated separately on the invoice at the statutory rate on the date of delivery or service. Additional deliveries or services are invoiced separately. The Manufacturer will only arrange insurance against transport damage at the express request of the Purchaser, and on their account.

**§4 Time of delivery and service, force majeure**

Agreements on dates or deadlines for a delivery or service are not binding unless put in writing.

If the Manufacturer is unable to meet binding delivery deadlines for reasons for which it is not responsible (non-availability of the service), it shall inform the Purchaser without undue delay and, at the same time, confirm the expected new delivery deadline. If the service is also not available within the new delivery period, the Manufacturer shall be entitled to fully or partially withdraw from the contract; the Manufacturer shall immediately reimburse any consideration already paid by the Purchaser. A case of non-availability of the service in this sense shall be deemed to be, in particular, failure by the Manufacturer's supplier to deliver on time if the Manufacturer has concluded a congruent hedging transaction, neither it nor its supplier is at fault or the Manufacturer is not obliged to procure the service in the individual case.

In the event of obstacles of only temporary duration, the deadlines for delivery or service shall be extended or postponed by the period of the hindrance plus a reasonable lead time. Insofar as the Purchaser cannot reasonably be expected to accept the delivery or service as a result of the delay, it may withdraw from the contract by way of immediate written declaration to the Manufacturer.

In the event of an incident attributable to force majeure, the provisions pursuant to Para. 2 Sentences 1 and 2 shall apply accordingly. Force majeure shall also be deemed to include epidemics, pandemics, war, riots, industrial disputes, strikes, lockouts, official directives or measures, unavoidable shortages of energy or raw materials, unintentional transport bottlenecks, unforeseeable operational disruption, for example, due to fire, water and machinery damage and any other hindrances which, when viewed objectively, have not been caused negligently by the Manufacturer.

The occurrence of delivery default by the Manufacturer shall be determined according to the statutory provisions. However, in each case a reminder by the Purchaser is required. If the Manufacturer defaults on delivery, the Purchaser may demand lump-sum compensation for the damage caused by the delay. The lump-sum compensation shall amount to 0.5% of the net price (delivery value) for each completed calendar week of the delay, but in total no more than 5% of the delivery value of the goods delivered late. The Manufacturer reserves the right to prove that the Purchaser has not incurred any damage or loss or that the damage or loss is substantially less than the aforementioned lump sum.

Fulfilment of supply and service obligations on the part of the Manufacturer is subject to the Purchaser's obligations being fulfilled on time and correctly. If the Purchaser delays acceptance, the Manufacturer is entitled to demand compensation for the loss they have incurred as a result; on commencement of the delay in acceptance, the risk of accidental deterioration and accidental loss passes to the Purchaser.

If the Manufacturer defaults on a delivery or service or if it becomes impossible for it to carry out a delivery or service, for whatever reason, the Manufacturer's liability for damages shall be limited according to § 11 of these General Conditions of Sale.

**§5 Order cancellation, framework agreements**

Order cancellations by the Purchaser for customer-specific products or for products commissioned exclusively by the Purchaser will not be accepted. Cancellations for other products require the Manufacturer's express approval.

Unless a term has been agreed, framework agreements have a maximum term of 12 months. If the Supplier fails to plan call-ups, the Manufacturer is entitled to organise them itself. Should the average agreed purchase volume not meet the expected demand, the Manufacturer is entitled to supply partial quantities at any time at its

own discretion. Unless otherwise agreed, the Manufacturer is entitled at the end of the contractual term to deliver all the residual quantities or to bill the Purchaser for materials, any additional costs incurred and any lost profit.

**§6 Part deliveries**

The Manufacturer shall be entitled to make part deliveries or deliver partial services at any time if the part delivery can be used by the Purchaser within the context of the contractually intended purpose, the supply of the remaining ordered goods is guaranteed and this does not result in any significant extra expenditure or additional costs for the Purchaser.

**§7 Returns**

Goods that have been ordered and supplied correctly and in perfect condition by the Manufacturer cannot be returned. In exceptional circumstances and with prior written approval from the Manufacturer, goods may be returned. With one-off returns, the Manufacturer shall apply a fixed processing fee of at least €20 plus statutory VAT. Costs for larger returns will be calculated based on the expenditure. This does not apply to items returned on account of justified complaints. Acceptance of the items can be denied if they are returned without a return note from the Manufacturer. Costs incurred as a result shall be borne by the Purchaser. The Manufacturer will not accept the return of custom-made or cut-to-size items.

**§8 Third-party industrial property rights**

If the Manufacturer is obliged to deliver a product to the Purchaser's specifications (drawings, models, patterns, sketches, etc.), the Purchaser must ensure that no third-party industrial property rights are infringed as a result. In the event of culpable violation of duty, the Purchaser shall be obliged to indemnify the Manufacturer against any claims by third parties when first requested to do so.

**§9 Place of fulfilment/Passing of risk**

The place of fulfilment for the Manufacturer's services is the Manufacturer's registered office. Unless the order confirmation states to the contrary, upon delivery of the item the risk of accidental loss or accidental deterioration passes to the Purchaser, who is responsible for any expenses associated with the item after delivery. In the event that the delivery item is shipped somewhere other than the place of fulfilment, the risk of loss of or damage to the delivery item passes to the Purchaser when the item is delivered to the shipping company, the carrier or any other person or agency tasked with shipping.

**§10 Warranty/Guarantee**

For warranty claims in the event of material defects in roller shutter, sun protection and door drives as well as their control unit components, the following applies:

1.

General
- 1.1

These warranty and guarantee provisions apply to products used in roller shutter, sun protection and door systems.
- 1.2

The Manufacturer guarantees to remedy any defects in new products for a period of 2 years in accordance with the provisions of law unless agreed otherwise in these General Conditions of Sale. For used products, the warranty period is 1 year
- 1.3

The warranty commences upon delivery of the products to the Purchaser. If the Purchaser is unable to prove the precise delivery date, the date of manufacture of the delivery item plus a three-month period of grace is applicable.
- 1.4

The requirement for warranty is the prior performance of an inspection of the rejected product at the Manufacturer's premises, during which a defect has been determined that the Manufacturer is responsible for. The Purchaser is obliged to make the disputed product available to the Manufacturer, as well as all the information and verifiable documents that are required in order to establish that there is a defect.
- 1.5

There are no grounds for a warranty claim if it becomes evident in the course of inspection in accordance with Item 1.4 that the complaint is based on improper handling of the delivery item or that, for other reasons, the problem is not the responsibility of the Manufacturer. In this event, the Purchaser is obliged to reimburse the Manufacturer for the expenses and costs incurred by inspecting the item in accordance with Item 1.4.
- 1.6

Natural wear and tear and use do not constitute a material defect. The following are, in particular, deemed consumable parts: rechargeable batteries, batteries and other wear products. The statutory guarantee is not affected. The guarantee pursuant to Item 2.1 does not cover used wear parts or consumables.
- 1.7

In the event of a warranty claim, the Manufacturer is entitled to initially attempt to rectify the issue. The Manufacturer hereby reserves the right to decide whether to carry out a repair, or supply a replacement or new unit.
- 1.8

If rectification of the issue is ultimately unsuccessful, a deadline is set following which the Purchaser retains their rights from § 437 Clauses 2 and 3 BGB. The deadline must be set in writing; it must be of an appropriate length and no less than 14 working days. If the Purchaser has the legal right to withdraw from the contract, the obligation to compensate in accordance with § 346 Para. 3 Clause 3 of the BGB (German Civil Code) only fails to apply if the Purchaser has observed the due diligence of a prudent businessman.
- 1.9

The law of the Federal Republic of Germany alone shall be applicable to warranty claims to the exclusion of UN purchase law.
- 1.10

By purchasing products from the Manufacturer, the Purchaser acknowledges the valid form of the Manufacturer's warranty and guarantee provisions as set out in these General Conditions of Sale.
2.

Guarantee for roller shutter and sun protection drives
- 2.1

Irrespective of the warranty rights described in Item 1, the Manufacturer provides a five-year guarantee on roller shutter and sun protection drives, with the effect that drives purchased as new items from the Becker catalogue will be replaced free of charge for a period of up to 5 years from the date of

manufacture. The provisions in §10 Clauses 1.3-1.5, 1.9 and 1.10 apply here accordingly.

It is the Manufacturer's responsibility to decide whether to effect a repair, or supply an equivalent replacement unit or new unit, and the decision is based on economic considerations. The Manufacturer shall not be liable for any additional costs.

- 2.2

Should the Purchaser invoke the rights in a guarantee, it is their responsibility to prove that the circumstances warrant their claim.
- 2.3

This provision does not apply to devices that are not used in roller shutter or sun protection applications in the conventional sense, including fire protection systems, swimming pool systems, sports or similar facilities and used equipment.
3.

Right of recourse against supplier  
Claims by the Purchaser in the context of the right of recourse against supplier shall become statute-barred pursuant to Item 1.2 unless the Purchaser informs the Manufacturer in writing of a defect asserted by its customer within this limitation period. In this case, the statutory limitation periods apply to the right of recourse against supplier. Before the Purchaser recognises or fulfils a claim for defects asserted by its customer (including reimbursement of expenses pursuant to §§ 445a Para. 1, 439 Para. 2 and 3 BGB), it shall notify the Manufacturer, providing a brief account of the facts, and request written comments.
4.

Obligation to inspect and give notice of defects  
The Purchaser shall accept an obligation to inspect and give notice of defects in accordance with § 377 of the German Commercial Code (HGB) in respect of all deliveries and services from the Manufacturer. When a works contract is signed, § 377 of the German Commercial Code (HGB) applies by analogy. After the transfer of risk or acceptance of the product, the Purchaser shall immediately inspect it to find out whether it is in working order and notify the Manufacturer in writing in a comprehensible form of any defects found as well as hidden defects after their discovery without undue delay, at the latest within 10 days. The Purchaser is obliged to make available to the Manufacturer all the information and verifiable documents that are required in order to establish that there is a defect. If the defect cannot be found during an inspection by the Manufacturer, the Purchaser shall bear the costs of the inspection.

**§11 Limitation of liability**

Irrespective of their legal basis, claims for compensation against the Manufacturer, their employees or vicarious agents are excluded provided there is no case of wilful misconduct or gross negligence.

In the event of wilful misconduct or gross negligence, the Manufacturer's liability is limited to foreseeable damages typical for the type of contract. In the event of an ordinary breach of key contractual obligations due to actions or negligence by non-executive employees, the Manufacturer's liability is limited to the reasonable foreseeable damage typical for the type of contract.

In all cases, the Manufacturer's liability for damage to life, body and health, their liability under the German Product Liability Act and other claims arising from manufacturer's liability remain unaffected.

**§12 Liability for defects when processing sent in parts**

With any kind of processing of sent in or supplied material, the Manufacturer shall not be liable for any defects that arise due to the properties or deficiencies of the material per se. If parts which have been sent in become unusable during processing or assembly due to material faults or other deficiencies, the Manufacturer must be compensated for the processing costs incurred or for any other resulting damages.

**§13 Reservation of proprietary rights**

Until full settlement of all claims (including all current account balance claims) against the Purchaser which the Manufacturer is entitled to now or in the future regardless of their legal basis, the Manufacturer is granted the following securities that they can release on demand and at will where their value exceeds the claims consistently by more than 10%.

The goods remain the property of the Manufacturer. Processing or reforming are always carried out on behalf of the Manufacturer as manufacturer, but without any obligation on their part. If the (co)ownership of the Manufacturer expires as a result of merger, it is now hereby agreed that the Purchaser's (co)ownership of the uniform item will be transferred to the Manufacturer in proportion to its value (invoice amount). The Purchaser shall keep the Manufacturer's (co-owned) property safe free of charge. Goods to which the Manufacturer has claim to (co)ownership shall be referred to as reserved goods hereinafter.

The Purchaser is entitled to process and sell the reserved goods in normal business operations as long as they are not in arrears. Pledging or collateral assignments are inadmissible. The Purchaser now, for the sake of safety, relinquishes any claims (including all current account balance claims) relating to the reserved goods arising from the resale or any other legal reason (insurance, unauthorised action) in their entirety to the Manufacturer. The Manufacturer revocably authorises the Purchaser to collect on claims relinquished to them on their own behalf. This authorisation to collect can only be revoked if the Purchaser fails to honour their payment obligations properly. Where third parties access reserved goods, especially attachments, the Purchaser shall refer to the ownership of the Manufacturer and immediately inform the Manufacturer to enable them to assert their proprietary rights. Where the third party is unable to reimburse the Manufacturer for judicial or extra-judicial costs that arise in this context, the Purchaser shall be liable for said costs.

In the event of breach of contract by the Purchaser – in particular late payment – the Manufacturer shall be entitled to demand the surrender of the reserved goods or, where applicable, demand that the Purchaser's surrender claims against third parties

are relinquished. Recovery or pledging of reserved goods by the Manufacturer does not represent a withdrawal from the contract.

**§14 Payment, Late payment**

Invoices from the Manufacturer are payable in full within 30 days of the invoice date unless any agreement to the contrary is in place. Where payment is made within 10 days of the invoice date, the Manufacturer will grant the Purchaser a discount of 2%.

In the event of overseas delivery, the Manufacturer is entitled to require the Purchaser to transfer an open-ended directly-enforceable security from a German bank to the order value of the goods for the purpose of providing collateral against payment claims.

In the event of part deliveries or partial provision of services, the Manufacturer is entitled to invoice for services that have already been provided. If the Purchaser fails to meet their payment obligations for part deliveries or partial services provided on time, the Manufacturer is entitled to withhold further partial deliveries or services, or to deliver them exclusively on a cash-on-delivery basis at the Purchaser's expense.

Where the Manufacturer has reasonable doubts concerning the Purchaser's financial reliability, or where the latter has fallen into payment arrears for an earlier delivery or partial delivery, the Manufacturer is entitled to carry out future deliveries or partial deliveries exclusively on a cash-on-delivery basis at the Purchaser's expense. Any retention of payments or offsetting against payment claims from the Manufacturer is inadmissible unless there are legally binding, uncontested or acknowledged counterclaims involved. Should it become apparent after signing the contract (e.g. by an application for the institution of insolvency proceedings), that the Manufacturer's claim to the purchase price is endangered by the Purchaser's inability to pay, the Manufacturer is entitled, according to the statutory provisions, to refuse performance and - if necessary, after setting a deadline - to withdraw from the contract (§ 321 BGB). In the case of contracts for the manufacture of non-fungible goods (custom-built items), the Manufacturer may declare its withdrawal immediately; the statutory provisions concerning the dispensability of setting a deadline remain unaffected.

Should the Purchaser fall into payment arrears, the Manufacturer shall be entitled to demand interest at a rate of 10% above the basic interest rate of the European Central Bank as compensation from the time the payment was due. The interest rate applied shall be lower if the Purchaser proves a smaller loss. The Manufacturer is permitted to prove more serious damages.

**§15 Applicable law, place of jurisdiction, partial invalidity**

These General Conditions of Sale and all legal relations between the Manufacturer and the Purchaser shall be governed by the law of the Federal Republic of Germany. The provisions of the UN sales law are not applicable. If the Purchaser is a merchant as defined by the German Commercial Code (HGB), a legal entity under public law or special funds under public law, the registered office of the Manufacturer shall be the exclusive place of jurisdiction for all disputes arising directly or indirectly from the contractual relationship. The same applies where the Purchaser has no place of general jurisdiction in Germany or if their domicile or habitual residence are not known at the time of filing legal action. Should one of the provisions in these General Conditions of Sale or one of the provisions within the scope of other agreements be or become invalid, the validity of any other provisions or agreements shall not be affected thereby. The fully or partially ineffective provision should in this case be replaced with an effective provision whose economic purpose comes as close as possible to that of the ineffective provision.

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