



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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# New items in this catalogue



## Universal drives with crank connection

R12-M05 ... R40-M05 with angled plug

18



## Roller shutter drives with electronic limit switching and crank connection

R40-E25

L60-E25 ... L120-E25

20

20



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

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

29



## Roller shutter drive with integrated bidirectional radio receiver CentronicPLUS

R8-C01 PLUS...R40-C01 PLUS

46



## Roller shutter drive with integrated radio receiver EnOcean

R8-N01...R40-N01

50



### **Centronic / B-Tronic radio control units**

EC711	96
EC715	96
MC611	98



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

SWS541-II	136
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### **CentronicPLUS radio control units**

EasyControl EC541 PLUS, EC548 PLUS, EC5416 PLUS	140
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### **Cord switch set**

12 V DC	166
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# Glossary – drives

Current drive name	Previous drive name	Equates old drive name	Description
<b>Mechanical limit switching</b>			
<b>M04</b>	C M	M	Roller shutter and sun protection drive with mechanical limit switching
<b>M05</b>	HK	HK	Roller shutter and sun protection drive with crank connection
<b>M06</b>	G	G	DC drive 12 – 24 V, diameter 58 mm
<b>M07</b>	GHK	GHK	DC drive with crank connection
<b>M17</b>			Roller shutter drives for narrow windows
<b>M19</b>			DC drive 12 V, diameter 35 mm Pico
<b>Electronic limit switching</b>			
<b>E01</b>	C PRO+	C PR+, PR+, Pico R+	Universal roller shutter drive with electronic limit switching
<b>E02</b>	RO+		Roller shutter drive with electronic limit switching
<b>E03</b>	ROP+	RP, RP+, R, R+	Roller shutter drive with electronic limit switching
<b>EVO20 R</b>			Roller shutter drive with electronic limit switching in the Evolutions series
<b>EVO20 RJ</b>			Roller shutter drive with electronic limit switching in the Evolutions series for roller shutters with blind function
<b>E12</b>	C PS, C PS+, SE B0	PS, PS+, S, S+	Universal sun protection drive with electronic limit switching
<b>E14</b>			Roller shutter drives with electronic limit switching
<b>E15</b>			Sun protection drives with electronic limit switching
<b>E16</b>	C SE I1		“Locking” sun protection drive with electronic limit switching
<b>E18</b>			Sun protection drive “ZIP” with electronic limit switching
<b>E25</b>			Roller shutter drive with electronic limit switching and crank connection
<b>Radio controlled drives with electronic limit switching – Centronic</b>			
<b>C01</b>	C PROF+	PROF+, PRF+	Roller shutter drive with integrated radio receiver Centronic
<b>C12</b>	C PSF+, C PSF	PSF+, PSF	Sun protection drive with integrated radio receiver Centronic
<b>C16</b>	C SEF I1		“Locking” sun protection drive with integrated Centronic radio receiver
<b>C18</b>			Sun protection drive “ZIP/Fixed Screens” with integrated radio receiver Centronic
<b>Bidirectional radio-controlled drives with electronic limit switching – CentronicPlus</b>			
<b>C01 PLUS</b>			Roller shutter drive with integrated bidirectional radio receiver CentronicPlus
<b>Bidirectional radio-controlled drives with electronic limit switching – B-Tronic</b>			
<b>B01</b>	C PROF+ KNX		Roller shutter drive with integrated radio receiver B-Tronic
<b>Radio controlled drives with electronic limit switching - EnOcean</b>			
<b>N01</b>			Roller shutter drive with integrated radio receiver EnOcean
<b>Drives with SMI technology</b>			
<b>S01</b>	C PR+ SMI		Roller shutter drive with SMI limit switching
<b>S12</b>	C PS SMI, C PS+ SMI		Sun protection drive with SMI limit switching
<b>S18</b>			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  
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 on page 226 of this catalogue, and at [www.becker-antriebe.com](http://www.becker-antriebe.com)

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# 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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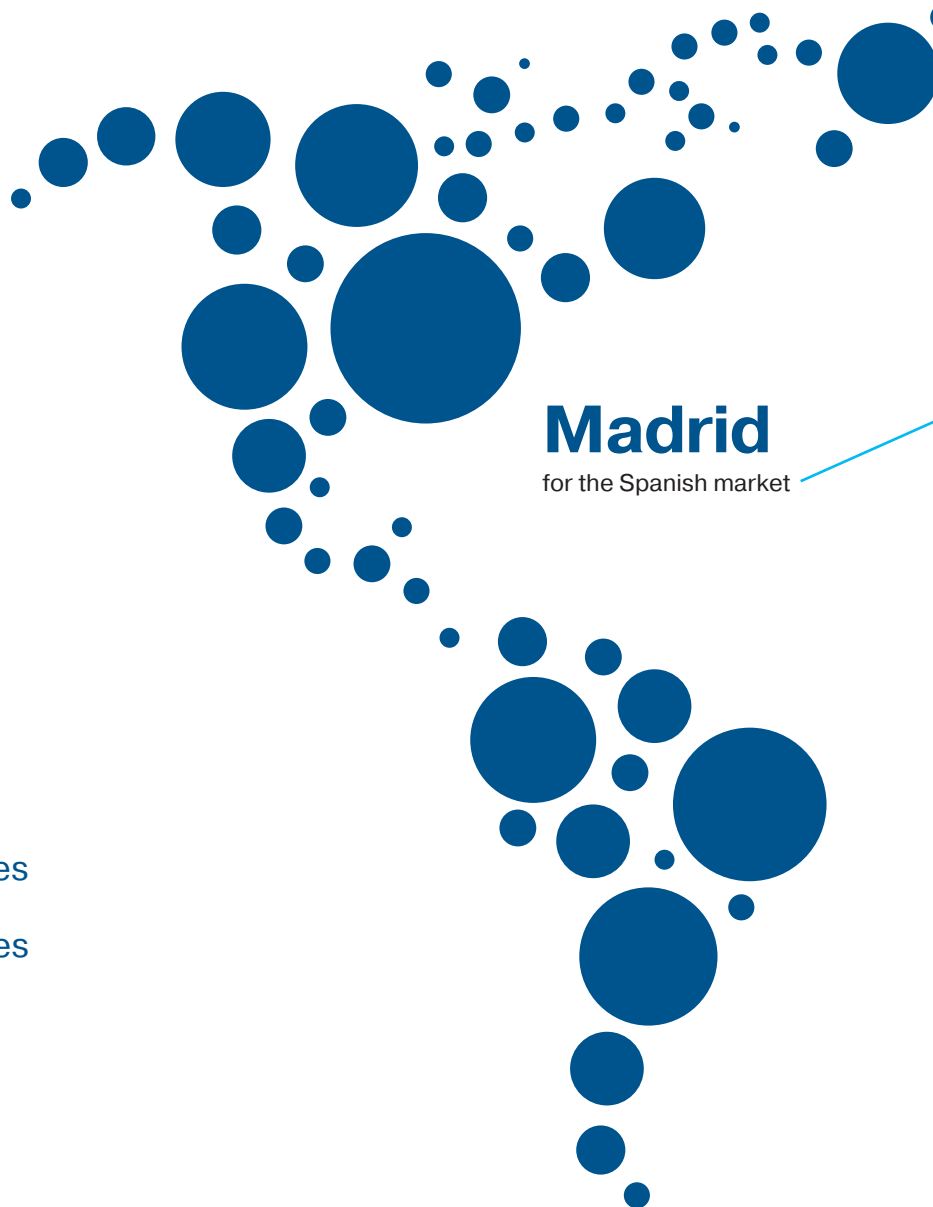
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**BECKER**

**At home**  
**all over the world.**



**Madrid**  
for the Spanish market

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.

## Paris

for the French market

## Maastricht

for the markets in the Benelux countries

## Izmir

for the Turkish market

## Sinn

headquarters of Becker-Antriebe

We also have a production site in

## Slovakia

for a range of different parts  
and components

## Prague

for the markets in the Czech Republic  
and Slovakia



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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# Overview

## Drives

<b>Universal drives with mechanical limit switching</b>	<b>14</b>	<b>Roller shutter drives with BLDC technology</b>	<b>26</b>
P5-M04 ... P13-M04	14	R8-EVO 20 R...R20-EVO 20 R	28
R7-M04 ... R50-M04	14	R8-EVO 20 R BT...R20-EVO 20 R BT	28
L50-M04 ... L120-M04	14	R8-EVO 20 RJ...R20-EVO 20 RJ	29
<b>Universal drives with crank connection</b>	<b>16</b>	<b>Roller shutter drives with electronic limit switching</b>	<b>30</b>
R12-M05 ... R50-M05	16	P5/16PR+ ... P9/16PR+	30
L50-M05 ... L120-M05	16	P5-E01 ... P9-E01	32
<b>Universal drives with crank connection</b>	<b>18</b>	R8-E01 ... R40-E01	32
R12-M05 ... R40-M05 with angled plug	18	R8-E02 ... R30-E02	34
<b>Roller shutter drives with electronic limit switching and crank connection</b>	<b>20</b>	P5-E03 ... P9-E03	36
R40-E25	20	R8-E03 ... R30-E03	36
L60-E25 ... L120-E25	20	R8-E03 ... R30-E03 with angled plug	38
<b>DC drives</b>	<b>22</b>	R8-E14 ... R40-E14	40
L35-M06 ... XL200-M06	22	<b>SMI-Roller shutter drives with electronic limit switching</b>	<b>42</b>
<b>DC drives with crank connection</b>	<b>23</b>	R8-S01 ... R40-S01	42
L60-M07 ... L120-M07	23	<b>Roller shutter drives with integrated radio receiver Centronic</b>	<b>44</b>
<b>Escape door kit</b>	<b>24</b>	P5-C01 ... P9-C01	44
HCS520	24	R8-C01...R40-C01	44
<b>Solar-Kit</b>	<b>25</b>	<b>Roller shutter drives with integrated radio receiver CentronicPLUS</b>	<b>46</b>
SK460	25	R8-C01 PLUS...R40-C01 PLUS	46
<b>Roller shutter drive for narrow windows</b>	<b>26</b>	<b>Roller shutter drives with integrated radio receiver B-Tronic</b>	<b>48</b>
R4-M17	26	P5-B01 ... P9-B01	48
		R8-B01 ... R40-B01	48



<b>Roller shutter drives with integrated radio receiver EnOcean</b>	<b>50</b>	<b>SMI-“ZIP” sun protection drive with electronic limit switching</b>	<b>64</b>
R8-N01...R40-N01	50	R8-S18 ... R40-S18	64
<b>Sun protection drives with electronic limit switching</b>	<b>52</b>	<b>Universal sun protection drives with integrated radio receiver</b>	<b>66</b>
P5/20PS ... P9/16PS	52	P5-C12 ... P9-C12	66
P5-E12 ... P9-E12	54	R8-C12 ... R50-C12	66
R8-E12 ... R50-E12	54	L50-C12 ... L120-C12	66
L50-E12 ... L120-E12	54	<b>Sun protection drives for locking systems with integrated radio receiver</b>	<b>68</b>
R8-E15 ... R40-E15	56	R8-C16 ... R40-C16	68
L50-E15 ... L120-E15	56	L50-C16 ... L120-C16	68
<b>Sun protection drives for locking systems with electronic limit switching</b>	<b>58</b>	<b>“ZIP/Fixed Screens” sun protection drives with integrated radio receiver</b>	<b>70</b>
R8-E16 ... R40-E16	58	P5-C18 ... P9-C18	70
L50-E16 ... L120-E16	58	R8-C18 ... R40-C18	70
<b>SMI-Sun protection drive with electronic limit switching</b>	<b>60</b>	<b>Technical information</b>	
R8-S12 ... R50-S12	60	Load table Roller shutter drives	72
L50-S12 ... L120-S12	60	Function matrix Roller shutter drives	74
<b>“ZIP/Fixed Screens” sun protection drives with electronic limit switching</b>	<b>62</b>	Load table Awning drives	76
P5-E18 ... P9-E18	62	Function matrix Sun protection drives	76
R8-E18 ... R50-E18	62	<b>Plug-in connecting cable – C-plug</b>	<b>81</b>



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.


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# Universal drives with mechanical limit switching

**C+plug**

**P5-M04 ... P13-M04**

**R7-M04 ... R50-M04**

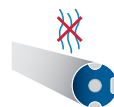
**L50-M04 ... L120-M04**

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
- Flounces
- Insect protection
- Inside screens
- Projection screen



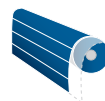
**Highlight:** Drive cable, ring and drive adapter can be mounted/disassembled without screws



**Motor protected against overheating**



**Mechanical limit switching**



**Motor head can be overwrapped**

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>P5-20-M04</b>	2009 110 100 0	2009 110 101 0	5	20	38	0,45	110	*
<b>P5-30-M04</b>	2009 110 102 0	2009 110 103 0	5	30	38	0,45	110	*
<b>P9-16-M04</b>	2009 110 104 0	2009 110 105 0	9	16	38	0,45	110	*
<b>P13-9-M04</b>	2009 110 106 0	2009 110 107 0	13	9	38	0,45	110	*
<b>R7-17-M04</b>	2010 110 041 0		7	17	17	0,45	90	3
<b>R7-85-M04</b>	2010 091 006 0		7	85	38	1,18	230	*
<b>R8-17-M04</b>	2010 110 100 0		8	17	38	0,45	100	*
<b>R12-17-M04</b>	2010 110 101 0		12	17	38	0,50	110	*
<b>R20-17-M04</b>	2020 110 100 0		20	17	38	0,70	160	*
<b>R30-17-M04</b>	2030 110 100 0		30	17	38	0,90	210	*
<b>R40-17-M04</b>	2040 110 100 0		40	17	38	1,15	260	*
<b>R50-11-M04</b>	2050 110 100 0		50	11	38	1,05	240	*
<b>L50-17-M04</b>	2050 110 101 0		50	17	36	1,4	315	*
<b>L60-11-M04</b>	2060 110 100 0		60	11	36	1,2	265	*
<b>L60-17-M04</b>	2060 110 101 0		60	17	36	1,75	380	*
<b>L70-17-M04</b>	2070 110 100 0		70	17	36	1,9	430	*
<b>L80-11-M04</b>	2080 110 100 0		80	11	36	1,4	310	*
<b>L120-11-M04</b>	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 80)





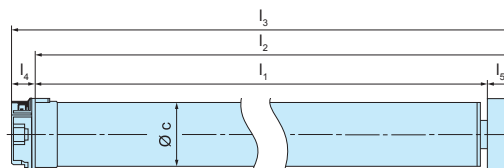
Suitable for left and right installation



Classic limit position adjustment by means of setting tools



Dimensions (in mm)	$l_1$	$l_2$	$l_3$	$l_4$	$l_5^{**}$	$\varnothing c$
<b>P5-20-M04</b>	538	555 <sup>1</sup>	568 <sup>1</sup>	13	17 <sup>1</sup>	35
<b>P5-30-M04</b>	538	555 <sup>1</sup>	568 <sup>1</sup>	13	17 <sup>1</sup>	35
<b>P9-16-M04</b>	538	555 <sup>1</sup>	568 <sup>1</sup>	13	17 <sup>1</sup>	35
<b>P13-9-M04</b>	538	555 <sup>1</sup>	568 <sup>1</sup>	13	17 <sup>1</sup>	35
<b>R7-17-M04</b>	354	394 <sup>2</sup>	411 <sup>2</sup>	17	40 <sup>2</sup>	45
<b>R7-85-M04</b>	604	644 <sup>2</sup>	661 <sup>2</sup>	17	40 <sup>2</sup>	45
<b>R8-17-M04</b>	414	454 <sup>2</sup>	471 <sup>2</sup>	17	40 <sup>2</sup>	45
<b>R12-17-M04</b>	414	454 <sup>2</sup>	471 <sup>2</sup>	17	40 <sup>2</sup>	45
<b>R20-17-M04</b>	443	483 <sup>2</sup>	500 <sup>2</sup>	17	40 <sup>2</sup>	45
<b>R30-17-M04</b>	568	608 <sup>2</sup>	625 <sup>2</sup>	17	40 <sup>2</sup>	45
<b>R40-17-M04</b>	588	628 <sup>2</sup>	645 <sup>2</sup>	17	40 <sup>2</sup>	45
<b>R50-11-M04</b>	588	628 <sup>2</sup>	645 <sup>2</sup>	17	40 <sup>2</sup>	45
<b>L50-17-M04</b>	673,5	703,5 <sup>3</sup>	723,5 <sup>3</sup>	20	30 <sup>3</sup>	58
<b>L60-11-M04</b>	673,5	703,5 <sup>3</sup>	723,5 <sup>3</sup>	20	30 <sup>3</sup>	58
<b>L60-17-M04</b>	673,5	703,5 <sup>3</sup>	723,5 <sup>3</sup>	20	30 <sup>3</sup>	58
<b>L70-17-M04</b>	673,5	703,5 <sup>3</sup>	723,5 <sup>3</sup>	20	30 <sup>3</sup>	58
<b>L80-11-M04</b>	673,5	703,5 <sup>3</sup>	723,5 <sup>3</sup>	20	30 <sup>3</sup>	58
<b>L120-11-M04</b>	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 178; selection of a different drive adapter will change dimensions  $l_2$ ,  $l_3$  and  $l_5$

<sup>2</sup> Drive adapter width of S60L (4930 300 466 0) page 178; selection of a different drive adapter will change dimensions  $l_2$ ,  $l_3$  and  $l_5$

<sup>3</sup> Drive adapter width of SM70 (4931 300 080 0) page 179; selection of a different drive adapter will change dimensions  $l_2$ ,  $l_3$  and  $l_5$



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# 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
- Roller doors



**Mechanical limit switching**  
with crank connection



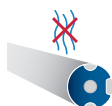
**Suitable for left and right installation**



**Your advantage: Crank** can be inserted  
from 2 sides



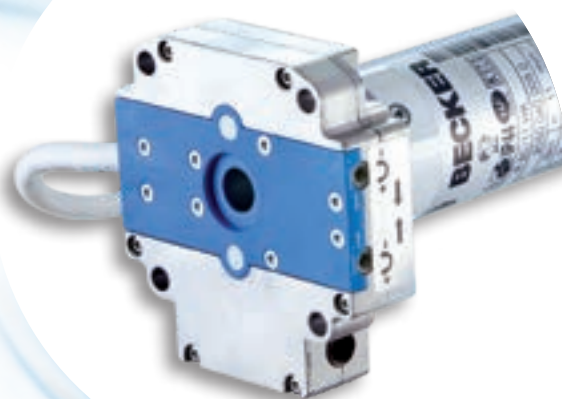
**Easy limit position setting** from 2 sides



**Motor protected against overheating**

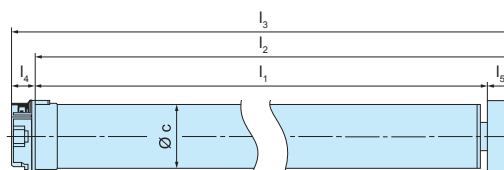
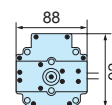
Technical data	Item number	Torque (Nm)	Speed (rpm)	Limit switch range (revolutions)	Nominal current (A)	Power consumption (W)	Connecting cable (m)
<b>R12-17-M05</b>	2010 140 003 0	12	17	38	0,50	110	3
<b>R20-17-M05</b>	2020 140 004 0	20	17	38	0,70	160	3
<b>R30-17-M05</b>	2030 140 005 0	30	17	38	0,90	210	3
<b>R40-17-M05</b>	2040 140 006 0	40	17	38	1,15	260	3
<b>R50-11-M05</b>	2050 140 101 0	50	11	38	1,05	240	3
<b>L50-17-M05</b>	2050 040 100 0	50	17	38	1,4	315	3
<b>L60-11-M05</b>	2060 040 100 0	60	11	38	1,2	265	3
<b>L60-17-M05</b>	2060 040 102 0	60	17	38	1,75	380	3
<b>L70-17-M05</b>	2070 040 100 0	70	17	38	1,9	430	3
<b>L80-11-M05</b>	2080 040 100 0	80	11	38	1,4	310	3
<b>L120-11-M05</b>	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)

	$l_1$	$l_2$	$l_3$	$l_4$	$l_5$	$\varnothing c$
<b>R12-17-M05</b>	637	677 <sup>1</sup>	704 <sup>1</sup>	27	40 <sup>1</sup>	45
<b>R20-17-M05</b>	677	717 <sup>1</sup>	744 <sup>1</sup>	27	40 <sup>1</sup>	45
<b>R30-17-M05</b>	677	717 <sup>1</sup>	744 <sup>1</sup>	27	40 <sup>1</sup>	45
<b>R40-17-M05</b>	697	737 <sup>1</sup>	764 <sup>1</sup>	27	40 <sup>1</sup>	45
<b>R50-11-M05</b>	697	737 <sup>1</sup>	764 <sup>1</sup>	27	40 <sup>1</sup>	45
<b>L50-17-M05</b>	748,5	778,5 <sup>2</sup>	805,5 <sup>2</sup>	27	30 <sup>2</sup>	58
<b>L60-11-M05</b>	748,5	778,5 <sup>2</sup>	805,5 <sup>2</sup>	27	30 <sup>2</sup>	58
<b>L60-17-M05</b>	748,5	778,5 <sup>2</sup>	805,5 <sup>2</sup>	27	30 <sup>2</sup>	58
<b>L70-17-M05</b>	748,5	778,5 <sup>2</sup>	805,5 <sup>2</sup>	27	30 <sup>2</sup>	58
<b>L80-11-M05</b>	748,5	778,5 <sup>2</sup>	805,5 <sup>2</sup>	27	30 <sup>2</sup>	58
<b>L120-11-M05</b>	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 178; selection of a different drive adapter will change dimensions  $l_2$ ,  $l_3$  and  $l_5$

<sup>2</sup> Drive adapter width of SM70 (4931 300 080 0) page 179; selection of a different drive adapter will change dimensions  $l_2$ ,  $l_3$  and  $l_5$



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# Universal drives with crank connection

**C+plug**

**R12-M05 ... R40-M05  
with angled plug**

Suitable for use for:

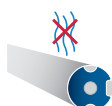
- Roller shutters
- Open and semi-open articulated-arm awnings
- Cassette awnings
- Drop-arm awnings
- Markisolettes
- Roller doors



**Mechanical limit switching**  
with crank connection



**Your advantage:** Crank can be inserted  
from 2 sides



**Motor protected against overheating**



**Suitable for left and right installation**



**Easy limit position setting** from 2 sides

Technical data

	Item number	Torque (Nm)	Speed (rpm)	Limit switch range (revolutions)	Nominal current (A)	Power consumption (W)	Connecting cable (m)
<b>R12-17-M05 with angled plug</b>	2010 140 007 0	12	17	38	0,50	110	0,41
<b>R20-17-M05 with angled plug</b>	2020 140 008 0	20	17	38	0,70	160	0,41
<b>R30-17-M05 with angled plug</b>	2030 140 009 0	30	17	38	0,90	210	0,41
<b>R40-17-M05 with angled plug</b>	2040 140 012 0	40	17	38	1,15	260	0,41

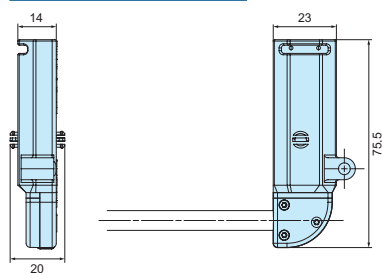
**Rated voltage:** 230 V/AC/50Hz

**Operating mode:** S2 4 min

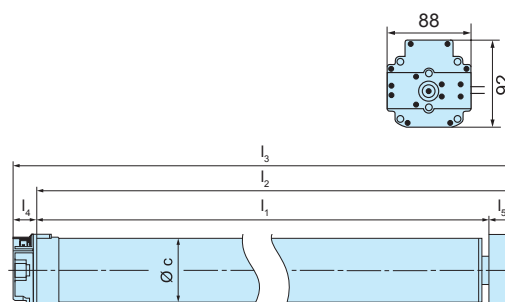
**Degree of protection:** IP44



Dimensions angled plug

**2010 270 653 0**Dimensions  
(in mm)

	$l_1$	$l_2$	$l_3$	$l_4$	$l_5$	$\varnothing c$
<b>R12-17-M05</b>	637	677 <sup>1</sup>	704 <sup>1</sup>	27	40 <sup>1</sup>	45
<b>R20-17-M05</b>	677	717 <sup>1</sup>	744 <sup>1</sup>	27	40 <sup>1</sup>	45
<b>R30-17-M05</b>	677	717 <sup>1</sup>	744 <sup>1</sup>	27	40 <sup>1</sup>	45
<b>R40-17-M05</b>	697	737 <sup>1</sup>	764 <sup>1</sup>	27	40 <sup>1</sup>	45



<sup>1</sup> Drive adapter width of S60L (4930 300 466 0) page 178; selection of a different drive adapter will change dimensions  $l_2$ ,  $l_3$  and  $l_5$

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# Roller shutter drives with electronic limit switching and crank connection

.....

**R40-E25**

**L60-E25 ... L120-E25**

Suitable for use for:

- Roller shutters with fixed stops

**E**

**Electronic limit switching**  
with crank connection



**Suitable for left and right installation**

**!**

**Solely** for operating roller shutters with fixed stops in both limit positions, using rigid shaft connectors



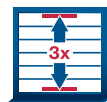
**Limit positions status indicator**  
(LSI) signals missing limit positions



Crank can be inserted from 2 sides



**Anti-freeze mechanism at the top** with automatic shading solution length adjustment



**Intelligent installation management**



**Supports parallel connection**



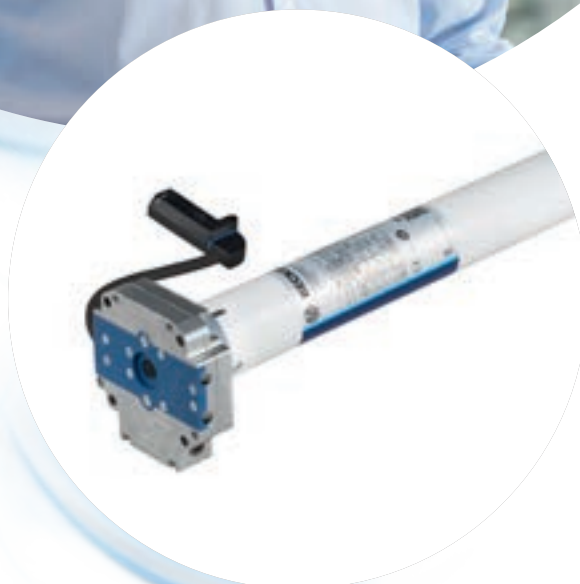
**Setting of limit positions** via conventional operating element, e. g. rotary switch

Technical data

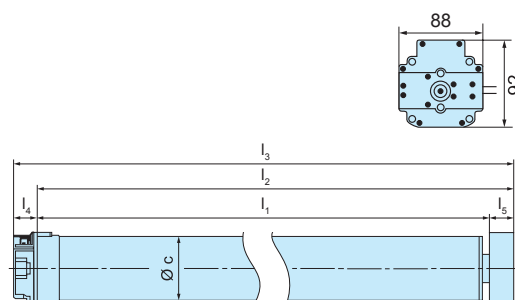
	Item number	Torque (Nm)	Speed (rpm)	Limit switch range (revolutions)	Nominal current (A)	Power consumption (W)	Connecting cable (m)
<b>R40-17-E25</b>	2040 140 011 0	40	17	64	1,15	260	0,05
<b>L60-11-E25</b>	2060 140 003 0	60	11	64	1,20	265	0,05
<b>L80-11-E25</b>	2080 140 003 0	80	11	64	1,40	310	0,05
<b>L120-11-E25</b>	2120 140 003 0	120	11	64	1,90	435	0,05

**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>R40-17-E25</b>	697	737 <sup>1</sup>	764 <sup>1</sup>	27	40 <sup>1</sup>	45
<b>L60-11-E25</b>	747	777 <sup>2</sup>	804 <sup>2</sup>	27	30 <sup>2</sup>	58
<b>L80-11-E25</b>	747	777 <sup>2</sup>	804 <sup>2</sup>	27	30 <sup>2</sup>	58
<b>L120-11-E25</b>	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 178; selection of a different drive adapter will change dimensions  $l_2$ ,  $l_3$  and  $l_5$

<sup>2</sup> Drive adapter width of SM70 (4931 300 080 0) page 179; selection of a different drive adapter will change dimensions  $l_2$ ,  $l_3$  and  $l_5$



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# DC drives

## L35-M06 ... XL200-M06

Suitable for use for:

- Roller shutters
- Swimming pool covers
- Sun protection applications
- Vehicle superstructures



**Highlight: Universal control** – integrated relay control for UP and DOWN allows for operation using standard switches/push buttons or control units with potential-free outputs



**Can be operated with safe extra-low voltage 12 V or 24 V**



**Mechanical limit switching**



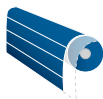
**Integrated fail-safe brake**



**Your advantage:** Simple battery backup with 12 V or 24 V batteries for emergency operation in the event of power failure



**Suitable for left and right installation**



**Motor head can be overwrapped**



**Easy limit position setting** without special tools or with flexible setting tools

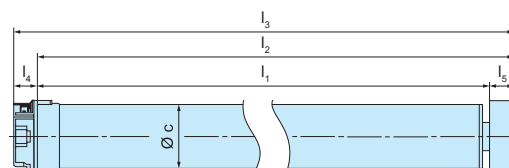
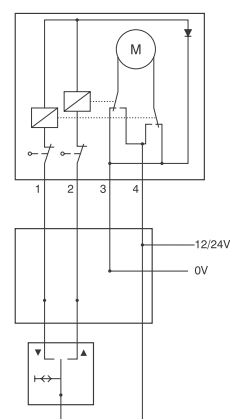
Technical data	Item number	Torque (Nm)		Speed (rpm)	Limit switch range (revolutions)	Rated voltage (V/DC)	Nominal current (A)	Power consumption (W)
<b>L35-8-M06</b>	2035 060 002 0	35	8	36	12	9,0	100	
<b>L60-8-M06</b>	2060 060 002 0	60	8	36	24	6,3	150	
<b>L120-3-M06</b>	2120 060 001 0	120	3	36	24	5,0	120	
<b>XL60-8-G4A*</b>	2060 096 015 0	60	8	36	24	6,3	150	
<b>XL120-3-G4A**</b>	2120 096 007 0	120	3	36	24	5,0	120	
<b>XL200-3-G4A**</b>	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>	Ø c
<b>L35-8-M06</b>	583,5	613,5 <sup>1</sup>	633,5 <sup>1</sup>	20	30 <sup>1</sup>	58
<b>L60-8-M06</b>	583,5	613,5 <sup>1</sup>	633,5 <sup>1</sup>	20	30 <sup>1</sup>	58
<b>L120-3-M06</b>	606,5	636,5 <sup>1</sup>	656,5 <sup>1</sup>	20	30 <sup>1</sup>	58
<b>XL60-8-G4A</b>	583	613 <sup>1</sup>	633 <sup>1</sup>	20	30 <sup>1</sup>	58
<b>XL120-3-G4A</b>	606	636 <sup>1</sup>	656 <sup>1</sup>	20	30 <sup>1</sup>	58
<b>XL200-3-G4A</b>	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 179; selection of a different drive adapter will change dimensions I<sub>2</sub>, I<sub>3</sub> and I<sub>5</sub>



# DC drives with crank connection

## L60-M07 ... L120-M07

Suitable for use for:

- Roller shutters
- Swimming pool covers
- Sun protection applications
- Vehicle superstructures



**Highlight: Universal control** – integrated relay control for UP and DOWN allows for operation using standard switches/push buttons or control units with potential-free outputs



**Can be operated with safe extra-low voltage 12 V or 24 V**



**Mechanical limit switching with crank connection**



**Crank can be inserted from 2 sides**



**Your advantage:** Crank and/or battery operation (12 V or 24 V) permits emergency operation in the event of power failure



**Suitable for left and right installation**

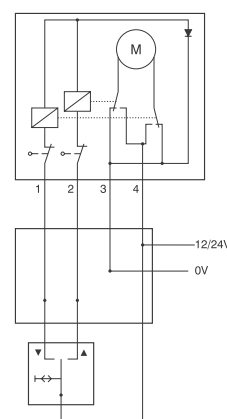


**Easy limit position setting** without special tools or with flexible setting tools

Technical data

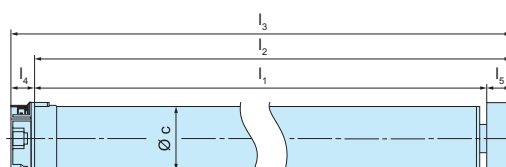
	Item number	Torque (Nm)	Speed (rpm)	Limit switch range (revolutions)	Rated voltage (V/DC)	Nominal current (A)	Nominal current (A)
<b>L60-8-M07</b>	2060 060 001 0	60	8	38	24	6,3	150
<b>L120-3-M07</b>	2120 060 002 0	120	3	38	24	5,0	120

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



Dimensions (in mm)

	$l_1$	$l_2$	$l_3$	$l_4$	$l_5$	$\varnothing c$
<b>L60-8-M07</b>	748,5	778,5 <sup>1</sup>	805,5 <sup>1</sup>	27	30 <sup>1</sup>	58
<b>L120-3-M07</b>	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 179; selection of a different drive adapter will change dimensions  $l_2$ ,  $l_3$  and  $l_5$



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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 HC520 2.600 mAh

**Item no. 4007 000 025 0**

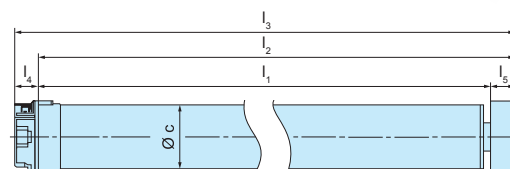
Battery for escape door control unit HC520 2.600 mAh

**Item no. 4807 040 002 6**

Cord switch set 12 V

**Item no. 4901 002 188 0**

Dimensions (in mm)	$l_1$	$l_2$	$l_3$	$l_4$	$l_5$	$\varnothing c$
<b>P10-11-M19</b>	447	464 <sup>1</sup>	477 <sup>1</sup>	13	17 <sup>1</sup>	35
<b>R20-17-M19</b>	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 HC520 3.000 mAh

**Item no. 4007 000 028 0**

Battery for escape door control unit HC520 3.000 mAh

**Item no. 4807 040 003 0**

<sup>1</sup> P10-11-M19: Drive adapter width of 40 x 1 / 42 x 2 (4930 300 086 0) page 185; 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 S60L (4930 300 466 0) page 178; selection of a different drive adapter will change dimensions  $l_2$ ,  $l_3$  and  $l_5$

# Solar-Kit

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)

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	

## Optional accessories

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**

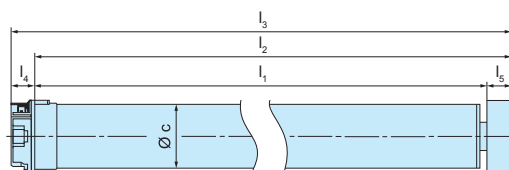
Rated voltage	110 – 240 V AC / 50 – 60 Hz
Current	0,4 A
Operating voltage	15 V



**You need a Centronic radio control to install the Solar-Kit. Order now!**

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**

<sup>1</sup> Drive adapter width of S40 (4930 300 083 0) page 178; selection of a different drive adapter will change dimensions  $l_2$ ,  $l_3$  and  $l_5$



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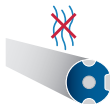
# Roller shutter drive for narrow windows

## R4-M17

Suitable for use for:  
■ Roller shutters



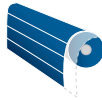
**Highlight:** “Short” drive for narrow roller shutter applications



**Motor protected against overheating**



**Automatic limit position setting**



**Motor head can be overwrapped**



**Blockage detection** in the UP direction  
(anti-freeze mechanism)



**Suitable for left and right installation**



**Assembly exclusively with fixed shaft connectors**



**Highlight: Obstacle detection in the DOWN direction** when rigid shaft connectors are used

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

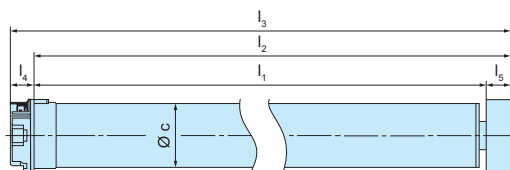
**Rated voltage:** 230 V/AC /50Hz    **Operating mode:** S2 4 min    **Degree of protection:** IP44





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 178; 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



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# Roller shutter drive with electronic limit switching "Evolution"



**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



## E Electronic limit switching



**Automatic detection of the limit positions** when flexible suspension springs or rigid shaft connectors are used



**Setting of limit positions** via conventional operating element, e. g. rotary switch



**Blockage detection** in the UP direction



**Anti-freeze mechanism at the top** with automatic shading solution length adjustment (which can also be activated)



**Particularly quiet running** thanks to the Evolution technology (Brushless DC technology)



**Optional Bluetooth® interface** for various additional functions such as the adjustable speed option



**Different driving profiles** available for selection



**Sensitive obstacle detection** in the DOWN direction with automatic reversing when flexible suspension springs or rigid shaft connectors are used



**Automatic detection of anti-lifting devices**



**Fly screen protection function**



**Supports parallel connection** without isolating relay



**Motor head can be overwrapped**



**Soft upper stop**



**Motor protected against overheating**



**Suitable for left and right installation**

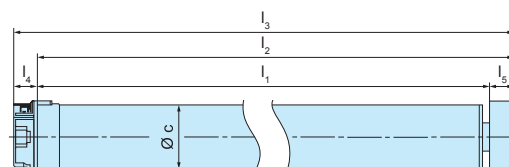
Technical data

	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)

	$l_1$	$l_2$	$l_3$	$l_4$	$l_5$	$\varnothing c$
<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 80)

<sup>1</sup> Drive adapter width of S60L (4930 300 466 0); selection of a different drive adapter will change dimensions  $l_2$ ,  $l_3$  and  $l_5$

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



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

Suitable for use for:

- Roller shutters with blind function

**E**

**Electronic limit switching**



**Automatic detection of the limit positions** when flexible suspension springs or rigid shaft connectors are used



**Setting of limit positions** via conventional operating element, e. g. rotary switch



**Blockage detection** in the UP direction



**Anti-freeze mechanism at the top** with automatic shading solution length adjustment (which can also be activated)



**Particularly quiet running** thanks to the Evolution technology (Brushless DC technology)



**Different driving profiles** available for selection



**Sensitive obstacle detection** in the DOWN direction with automatic reversing when flexible suspension springs or rigid shaft connectors are used



**Automatic detection of anti-lifting devices**



**Fly screen protection function**



**Supports parallel connection** without isolating relay



**Motor head can be overwrapped**



**Soft upper stop**



**Motor protected against overheating**



**Suitable for left and right installation**



Applicable for **roller shutters with blind function**



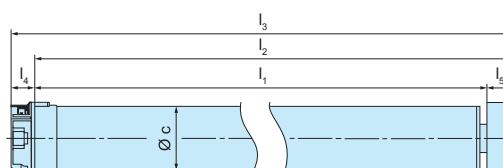
**Closed or blind position** can be reached directly

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 80)

<sup>1</sup> Drive adapter width of S60L (4930 300 466 0); 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

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



**Highlight:** Obstacle detection in the DOWN direction when rigid shaft connectors are used



**Electronic limit switching**



**Your advantage: Easy programming of the limit positions** with and without fixed stops



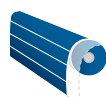
**Blockage detection** in the UP direction (antifreeze mechanism)



Automatic increase of the pressing force with **anti-lifting devices**



**Setting of limit positions** via switches on the drive head without the need for a special adjustment set



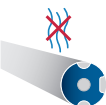
**Motor head can be overwrapped**



**Soft upper stop**



**Dynamic torque adjustment** to changes in the roller shutter element



**Motor protected against overheating**



**Suitable for left and right installation**

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>P5/16PR+</b>	2009 020 110 0	2009 020 109 0	5	16	64	0,36	85	3
<b>P5/20PR+</b>	2009 020 107 0	2009 020 105 0	5	20	64	0,47	115	3
<b>P9/16PR+</b>	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





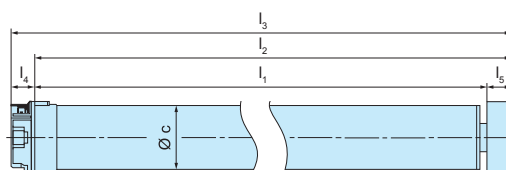
DRIVES

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Dimensions  
(in mm)

	$l_1$	$l_2$	$l_3$	$l_4$	$l_5$	$\varnothing c$
<b>P5/16PR+</b>	403	420 <sup>1</sup>	432 <sup>1</sup>	12	17 <sup>1</sup>	35
<b>P5/20PR+</b>	403	420 <sup>1</sup>	432 <sup>1</sup>	12	17 <sup>1</sup>	35
<b>P9/16PR+</b>	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 178; selection of a different drive adapter will change dimensions  $l_2$ ,  $l_3$  and  $l_5$


**BECKER**

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# Roller shutter drives with electronic limit switching

**C-plug**

**P5-E01 ... P9-E01**

**R8-E01 ... R40-E01**

Suitable for use for:

- Roller shutters
- Insect protection



**Highlight:** Sensitive obstacle detection in the DOWN direction with automatic reversing when flexible suspension springs or rigid shaft connectors are used



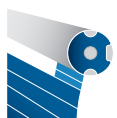
Automatic increase of the pressing force with **anti-lifting devices**

**E**

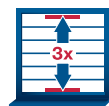
**Electronic limit switching**



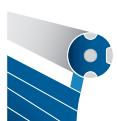
**Fly screen protection function**



**Your advantage:** Automatic detection of the limit positions when flexible suspension springs or rigid shaft connectors are used



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



**Limit positions status indicator (LSI)** signals missing limit positions



**Blockage detection** in the UP direction (antifreeze mechanism)



**Easy programming of the limit positions** with and without fixed stops



**Anti-freeze mechanism at the top** with automatic shading solution length adjustment that can be additionally activated



**Setting of limit positions** via switches on the drive head without the need for a special adjustment set



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-E01</b>	2009 120 110 0	2009 120 111 0	5	16	64	0,35	80	*
<b>P9-16-E01</b>	2009 120 108 0	2009 120 109 0	9	16	64	0,45	110	*
<b>R8-17-E01</b>	2010 120 139 0		8	17	64	0,45	100	*
<b>R12-17-E01</b>	2010 120 140 0		12	17	64	0,50	110	*
<b>R20-17-E01</b>	2020 120 119 0		20	17	64	0,70	160	*
<b>R30-17-E01</b>	2030 120 118 0		30	17	64	0,90	210	*
<b>R40-17-E01</b>	2040 120 115 0		40	17	64	1,15	260	*

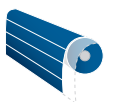
**Rated voltage:** 230 V/AC/50Hz **Operating mode:** S2 4 min **Degree of protection:** IP44

\* C-plug connecting cables are available in various versions and lengths, and are to be ordered separately (cf. table on page 80)





**Setting of limit positions** via conventional operating element, e. g. rotary switch



**Motor head can be overwrapped**



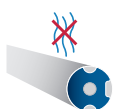
**Supports parallel connection** without isolating relay



**Soft upper stop**



**Dynamic torque adjustment** to changes in the roller shutter element



**Motor protected against overheating**

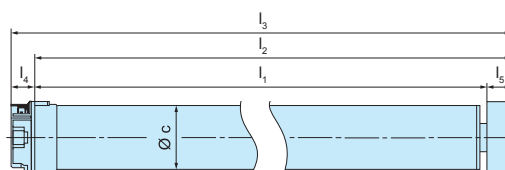


**Suitable for left and right installation**



Dimensions  
(in mm)

	$l_1$	$l_2$	$l_3$	$l_4$	$l_5$	$\varnothing c$
<b>P5-16-E01</b>	404	444 <sup>1</sup>	457 <sup>1</sup>	13	40 <sup>1</sup>	35
<b>P9-16-E01</b>	453	493 <sup>1</sup>	506 <sup>1</sup>	13	40 <sup>1</sup>	35
<b>R8-17-E01</b>	471	511 <sup>2</sup>	528 <sup>2</sup>	17	40 <sup>2</sup>	45
<b>R12-17-E01</b>	471	511 <sup>2</sup>	528 <sup>2</sup>	17	40 <sup>2</sup>	45
<b>R20-17-E01</b>	500	540 <sup>2</sup>	557 <sup>2</sup>	17	40 <sup>2</sup>	45
<b>R30-17-E01</b>	525	565 <sup>2</sup>	582 <sup>2</sup>	17	40 <sup>2</sup>	45
<b>R40-17-E01</b>	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 189; selection of a different drive adapter will change dimensions  $l_2$ ,  $l_3$  and  $l_5$

<sup>2</sup> Drive adapter width of O-S60 (4930 200 222 0) page 189; selection of a different drive adapter will change dimensions  $l_2$ ,  $l_3$  and  $l_5$



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# Roller shutter drives with electronic limit switching

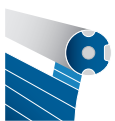
**R8-E02 ... R30-E02**

Suitable for use for:

- Roller shutters
- Insect protection

**E**

**Electronic limit switching**



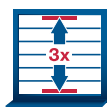
**Your advantage:** Automatic detection of the limit positions when flexible suspension springs or rigid shaft connectors are used



**Blockage detection** in the UP direction (antifreeze mechanism)



Automatic increase of the pressing force with **anti-lifting devices**



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



**Limit positions status indicator (LSI)** signals missing limit positions

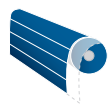


**Setting of limit positions** via conventional operating element, e. g. rotary switch



**Sensitive obstacle detection**

in the DOWN direction when springs or rigid shaft connectors are used



**Motor head can be overwrapped**



**Supports parallel connection** without isolating relay



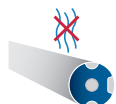
**Soft upper stop**



**Dynamic torque adjustment** to changes in the roller shutter element



**Automatic shading solution length adjustment**



**Motor protected against overheating**



**Suitable for left and right installation**

Technical data	Item number	Torque (Nm)	Speed (rpm)	Limit switch range (revolutions)	Nominal current (A)	Power consumption (W)	Connecting cable (m)
<b>R8-17-E02</b>	2010 120 150 0	8	17	64	0,45	100	3
<b>R12-17-E02</b>	2010 120 151 0	12	17	64	0,50	110	3
<b>R20-17-E02</b>	2020 120 124 0	20	17	64	0,75	130	3
<b>R30-17-E02</b>	2030 120 124 0	30	17	64	0,90	205	3

**Rated voltage:** 230 V/AC/50Hz

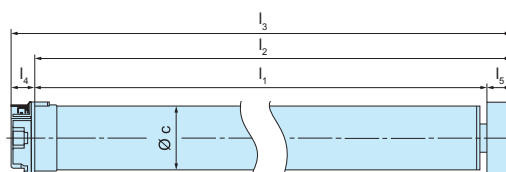
**Operating mode:** S2 4 min

**Degree of protection:** IP44



Dimensions  
(in mm)

	$l_1$	$l_2$	$l_3$	$l_4$	$l_5$	$\varnothing c$
<b>R8-17-E02</b>	483	522 <sup>1</sup>	538 <sup>1</sup>	16	40 <sup>1</sup>	45
<b>R12-17-E02</b>	453	522 <sup>1</sup>	538 <sup>1</sup>	16	40 <sup>1</sup>	45
<b>R20-17-E02</b>	511	551 <sup>1</sup>	567 <sup>1</sup>	16	40 <sup>1</sup>	45
<b>R30-17-E02</b>	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 178; selection of a different drive adapter will change dimensions  $l_2$ ,  $l_3$  and  $l_5$



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# Roller shutter drives with electronic limit switching

**P5-E03 ... P9-E03**

**R8-E03 ... R30-E03**

Suitable for use for:

- Roller shutters
- Insect protection



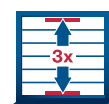
**Obstacle detection** in the DOWN direction with automatic reversing when flexible suspension springs or rigid shaft connectors are used



Automatic increase of the pressing force with **anti-lifting devices**

**E**

**Electronic limit switching**



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



**Your advantage:** Automatic detection of the limit positions when flexible suspension springs or rigid shaft connectors are used



**Limit positions status indicator (LSI)** signals missing limit positions



**Easy programming of the limit positions** with and without fixed stops



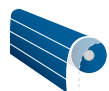
**Blockage detection** in the UP direction (antifreeze mechanism)



**Setting of limit positions** via conventional operating element, e. g. rotary switch



**Anti-freeze mechanism at the top** with automatic shading solution length adjustment that can be additionally activated



**Motor head can be overwrapped**

Technical data	Item number with bracket	Item number without bracket	Item number 5 m cable	Torque (Nm)	Speed (rpm)	Limit switch range (revolutions)	Nominal current (A)	Power consumption (W)	Connecting cable (m)
<b>P5-16-E03</b>	2009 120 104 0	2009 120 105 0		5	16	64	0,35	80	3
<b>P9-16-E03</b>	2009 120 106 0	2009 120 107 0		9	16	64	0,45	110	3
<b>R8-17-E03</b>	2010 120 142 0		2010 120 148 0	8	17	64	0,45	100	3/5
<b>R12-17-E03</b>	2010 120 143 0		2010 120 149 0	12	17	64	0,50	110	3/5
<b>R20-17-E03</b>	2020 120 120 0		2020 120 123 0	20	17	64	0,70	160	3/5
<b>R30-17-E03</b>	2030 120 120 0		2030 120 123 0	30	17	64	0,90	210	3/5

**Rated voltage:** 230 V/AC/50Hz

**Operating mode:** S2 4 min

**Degree of protection:** IP44



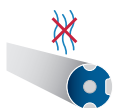
**Supports parallel connection** without isolating relay



**Soft upper stop**



**Dynamic torque adjustment** to changes in the roller shutter element



**Motor protected against overheating**

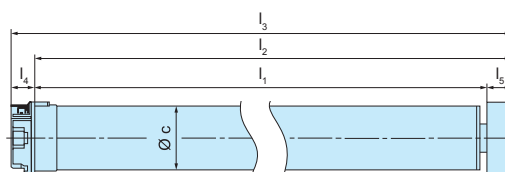


**Suitable for left and right installation**



Dimensions  
(in mm)

	$l_1$	$l_2$	$l_3$	$l_4$	$l_5$	$\varnothing c$
<b>P5-16-E03</b>	424	441 <sup>1</sup>	453 <sup>1</sup>	12	17 <sup>1</sup>	35
<b>P9-16-E03</b>	454	471 <sup>1</sup>	483 <sup>1</sup>	12	17 <sup>1</sup>	35
<b>R8-17-E03</b>	476,5	516,5 <sup>2</sup>	532,5 <sup>2</sup>	16	40 <sup>2</sup>	45
<b>R12-17-E03</b>	476,5	516,5 <sup>2</sup>	532,5 <sup>2</sup>	16	40 <sup>2</sup>	45
<b>R20-17-E03</b>	505,5	545,5 <sup>2</sup>	561,5 <sup>2</sup>	16	40 <sup>2</sup>	45
<b>R30-17-E03</b>	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 178; selection of a different drive adapter will change dimensions  $l_2$ ,  $l_3$  and  $l_5$

<sup>2</sup> Drive adapter width of S60L (4930 300 466 0) page 178; selection of a different drive adapter will change dimensions  $l_2$ ,  $l_3$  and  $l_5$



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# Roller shutter drives with electronic limit switching

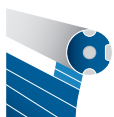
## R8-E03 ... R30-E03 with angled plug

Suitable for use for:

- Roller shutters
- Insect protection

### E

#### Electronic limit switching



**Your advantage: Automatic detection of the limit positions** when flexible suspension springs or rigid shaft connectors are used



**Highlight: Sensitive obstacle detection** in the DOWN direction with automatic reversing when flexible suspension springs or rigid shaft connectors are used



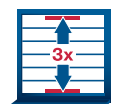
**Blockage detection** in the UP direction (antifreeze mechanism)



**Anti-freeze mechanism at the top** with automatic shading solution length adjustment that can be additionally activated



Automatic increase of the pressing force with **anti-lifting devices**



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



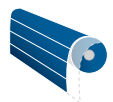
**Limit positions status indicator (LSI)** signals missing limit positions



**Setting of limit positions** via conventional operating element, e. g. rotary switch



**Easy programming of the limit positions** with and without fixed stops



**Motor head can be overwrapped**

#### Technical data

	Item number	Torque (Nm)	Speed (rpm)	Limit switch range (revolutions)	Nominal current (A)	Power consumption (W)	Connecting cable (m)
<b>R8-17-E03 Angled plug</b>	2010 120 144 0	8	17	64	0,45	100	0,09
<b>R12-17-E03 Angled plug</b>	2010 120 145 0	12	17	64	0,50	110	0,09
<b>R20-17-E03 Angled plug</b>	2020 120 121 0	20	17	64	0,75	160	0,09
<b>R30-17-E03 Angled plug</b>	2030 120 121 0	30	17	64	0,90	205	0,09

**Rated voltage:** 230 V/AC/50Hz

**Operating mode:** S2 4 min

**Degree of protection:** IP44





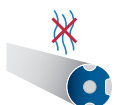
**Soft upper stop**



**Dynamic torque adjustment** to changes in the roller shutter element



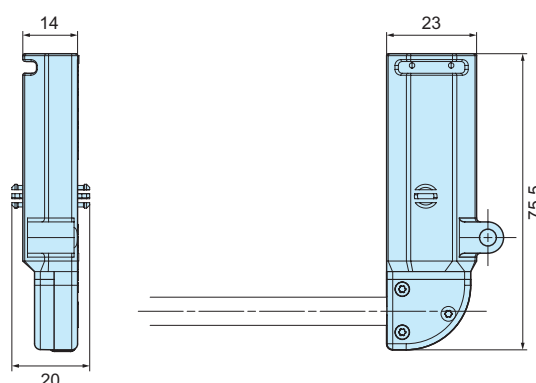
**Supports parallel connection** without isolating relay



**Motor protected against overheating**



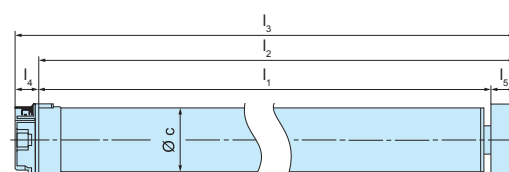
**Suitable for left and right installation**



Dimensions angled plug

**2010 270 653 0**

Dimensions (in mm)	$l_1$	$l_2$	$l_3$	$l_4$	$l_5$	$\varnothing c$
<b>R8-17-E03</b>	483	522 <sup>1</sup>	538 <sup>1</sup>	16	40 <sup>1</sup>	45
<b>R12-17-E03</b>	453	522 <sup>1</sup>	538 <sup>1</sup>	16	40 <sup>1</sup>	45
<b>R20-17-E03</b>	511	551 <sup>1</sup>	567 <sup>1</sup>	16	40 <sup>1</sup>	45
<b>R30-17-E03</b>	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 178; selection of a different drive adapter will change dimensions  $l_2$ ,  $l_3$  and  $l_5$



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# Roller shutter drives with electronic limit switching

**C+plug**

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

Suitable for use for:

- Roller shutters
- Insect protection

**E**

**Electronic limit switching**



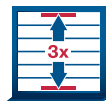
**Blockage detection** in the UP direction  
(antifreeze mechanism)



**Anti-freeze mechanism at the top** with  
automatic shading solution length adjustment  
that can be additionally activated



Automatic increase of the pressing force  
with **anti-lifting devices**



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



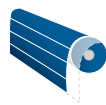
**Limit positions status indicator** (LSI) signals  
missing limit positions



**Easy programming of the limit positions**  
with and without fixed stops



**Setting of limit positions** via conventional  
operating element, e. g. rotary switch



**Motor head can be overwrapped**



**Supports parallel connection** without  
isolating relay

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

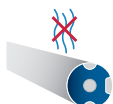
**Degree of protection:** IP44



**Soft upper stop**



**Dynamic torque adjustment**  
to changes in the roller shutter element



**Motor protected against overheating**



**Suitable for left and right installation**



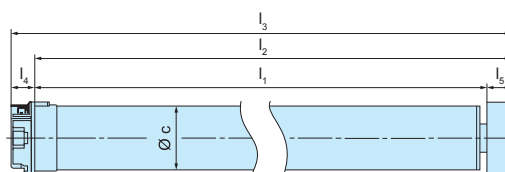
DRIVES

CONTROL UNITS

ELECTRICAL  
ACCESSORIES

MECHANICAL  
ACCESSORIES

Dimensions (in mm)	$I_1$	$I_2$	$I_3$	$I_4$	$I_5$	$\varnothing c$
<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 80)

<sup>1</sup> Drive adapter width of S60L (4930 300 466 0) page 178; selection of a different drive adapter will change dimensions  $I_2$ ,  $I_3$  and  $I_5$



**BECKER**

APPENDIX



# SMI-Roller shutter drives with electronic limit switching

**C+plug**

**R8-S01 ... R40-S01**

Suitable for use for:

■ Roller shutters

**E**

**Electronic limit switching**



**Sensitive obstacle detection:** If contact is made with an obstacle, the drive will automatically stop and reverse – even when flexible shaft connectors (springs) are being used.



**Blockage detection** in the UP direction (antifreeze mechanism)



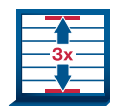
**Anti-freeze mechanism at the top** with automatic shading solution length adjustment that can be additionally activated



**Fly screen protection function**



Automatic increase of the pressing force with **anti-lifting devices**



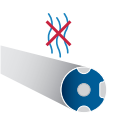
**Intelligent installation management** with limit positions status indicator (LSI)



**Soft upper stop**



**Dynamic torque adjustment** to changes in the roller shutter element



**Motor protected against overheating**

Technical data

	Item number	Torque (Nm)	Speed (rpm)	Limit switch range (revolutions)	Nominal current (A)	Power consumption (W)	Connecting cable (m)
<b>R8-17-S01</b>	2010 120 503 0	8	17	64	0,45	100	*
<b>R12-17-S01</b>	2010 120 504 0	12	17	64	0,50	110	*
<b>R20-17-S01</b>	2020 120 502 0	20	17	64	0,75	160	*
<b>R30-17-S01</b>	2030 120 502 0	30	17	64	0,90	205	*
<b>R40-17-S01</b>	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



**Automatic limit position setting** –  
when fixed stops are used, the drive  
automatically detects the limit positions,  
regardless of whether rigid shaft connectors or  
flexible suspension springs are being used



**Thermal protection** incl. electronic detection  
of activation



**Suitable for left and right installation**



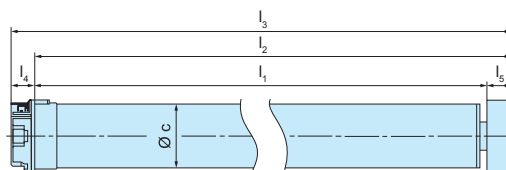
DRIVES

CONTROL UNITS

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ACCESSORIESMECHANICAL  
ACCESSORIES

APPENDIX

Dimensions (in mm)	$l_1$	$l_2$	$l_3$	$l_4$	$l_5$	$\varnothing c$
<b>R8-17-S01</b>	471	511 <sup>1</sup>	528 <sup>1</sup>	17	40 <sup>1</sup>	45
<b>R12-17-S01</b>	471	511 <sup>1</sup>	528 <sup>1</sup>	17	40 <sup>1</sup>	45
<b>R20-17-S01</b>	500	540 <sup>1</sup>	557 <sup>1</sup>	17	40 <sup>1</sup>	45
<b>R30-17-S01</b>	524	564 <sup>1</sup>	581 <sup>1</sup>	17	40 <sup>1</sup>	45
<b>R40-17-S01</b>	539	579 <sup>1</sup>	596 <sup>1</sup>	17	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 80)

<sup>1</sup> Drive adapter width of O-S60 (4930 200 222 0) page 189; selection of a different drive adapter will change dimensions  $l_2$ ,  $l_3$  and  $l_5$


**BECKER**



# Roller shutter drives with integrated radio receiver

**C+plug**

**P5-C01 ... P9-C01**

**R8-C01...R40-C01**

Suitable for use for:

- Roller shutters
- Insect protection



868,3 MHz

**Integrated radio receiver** compatible with the Centronic control unit range



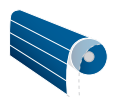
Automatic increase of the pressing force with **anti-lifting devices**



**Your advantage: Automatic detection of the limit positions** when flexible suspension springs or rigid shaft connectors are used



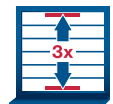
**Fly screen protection function**



**Motor head can be overwrapped**



**Highlight: Sensitive obstacle detection** in the DOWN direction with automatic reversing when flexible suspension springs or rigid shaft connectors are used



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



**Blockage detection** in the UP direction (anti-freeze mechanism)



**Limit positions status indicator (LSI)** signals missing limit positions



**Anti-freeze mechanism at the top** with automatic shading solution length adjustment that can be additionally activated



**Easy programming of the limit positions** with and without fixed stops

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</b>	2009 120 120 0	2009 120 121 0	5	16	64	0,36	85	*
<b>P9-16-C01</b>	2009 120 122 0	2009 120 123 0	9	16	64	0,47	110	*
<b>R8-17-C01</b>	2010 120 163 0		8	17	64	0,45	100	*
<b>R12-17-C01</b>	2010 120 164 0		12	17	64	0,50	110	*
<b>R20-17-C01</b>	2020 120 132 0		20	17	64	0,75	160	*
<b>R30-17-C01</b>	2030 120 132 0		30	17	64	0,90	205	*
<b>R40-17-C01</b>	2040 120 119 0		40	17	64	1,15	260	*

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





**2 freely selectable intermediate positions** can be programmed



**Single, group and central control** possible with up to 16 transmitters



**Soft upper stop**



**Dynamic torque adjustment** to changes in the roller shutter element



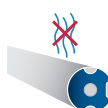
**On-site operation** via conventional single button



Simplified adjustment of **special functions**



**Intermediate positions** can be changed without deleting them before



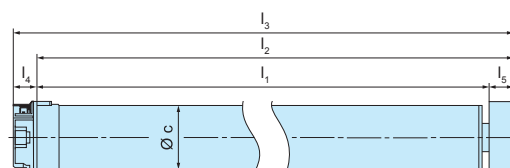
**Motor protected against overheating**



**Suitable for left and right installation**

Dimensions  
(in mm)

	$l_1$	$l_2$	$l_3$	$l_4$	$l_5$	$\varnothing c$
<b>P5-16-C01</b>	421	461 <sup>1</sup>	474 <sup>1</sup>	13	40 <sup>1</sup>	35
<b>P9-16-C01</b>	451	491 <sup>1</sup>	504 <sup>1</sup>	13	40 <sup>1</sup>	35
<b>R8-17-C01</b>	471	511 <sup>1</sup>	528 <sup>1</sup>	17	40 <sup>1</sup>	45
<b>R12-17-C01</b>	471	511 <sup>1</sup>	528 <sup>1</sup>	17	40 <sup>1</sup>	45
<b>R20-17-C01</b>	500	540 <sup>1</sup>	557 <sup>1</sup>	17	40 <sup>1</sup>	45
<b>R30-17-C01</b>	524	564 <sup>1</sup>	581 <sup>1</sup>	17	40 <sup>1</sup>	45
<b>R40-17-C01</b>	539	579 <sup>1</sup>	596 <sup>1</sup>	17	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 80)

<sup>1</sup> Drive adapter width of O-S60 (4930 200 222 0); selection of a different drive adapter will change dimensions  $l_2$ ,  $l_3$  and  $l_5$



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# Roller shutter drives with integrated radio receiver CentronicPLUS



## R8-C01 PLUS...R40-C01 PLUS

Suitable for use for:

- Roller shutters
- Insect protection



### Bidirectional radio receiver

The drive feeds its position and status information back to the operator unit



### Highlight: Sensitive obstacle detection

in the DOWN direction with automatic reversing when flexible suspension springs or rigid shaft connectors are used



### Position and status feedback



### Blockage detection in the UP direction (antifreeze mechanism)



**Mesh technology** enables the drives to automatically interconnect to form a very efficient network



**Anti-freeze mechanism at the top** with automatic shading solution length adjustment that can be additionally activated



**Your advantage: Automatic detection of the limit positions** when flexible suspension springs or rigid shaft connectors are used



Automatic increase of the pressing force with **anti-lifting devices**



### Fly screen protection function

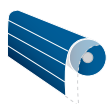
Technical data

	Item number	Torque (Nm)	Speed (rpm)	Limit switch range (revolutions)	Nominal current (A)	Power consumption (W)	Connecting cable (m)
<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	0,50	110	*
<b>R20-17-C01 PLUS</b>	2020 120 128 0	20	17	64	0,75	160	*
<b>R30-17-C01 PLUS</b>	2030 120 128 0	30	17	64	0,90	205	*
<b>R40-17-C01 PLUS</b>	2040 120 117 0	40	17	64	1,15	260	*

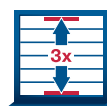
Rated voltage: 230V AC/50Hz

Operating mode: S2 4 min

Degree of protection: IP44



**Motor head can be overwrapped**



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



**Limit positions status indicator (LSI)** signals missing limit positions



**Easy programming of the limit positions** with and without fixed stops



**Two freely selectable intermediate positions** can be programmed



Compatible with numerous control units from the **Centronic II series**



**Soft upper stop**



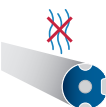
**Dynamic torque adjustment** to changes in the roller shutter element



**On-site operation** via conventional single button



**Intermediate positions** can be changed without deleting them before



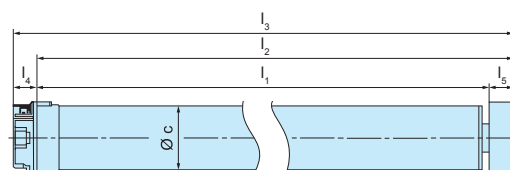
**Motor protected against overheating**



**Suitable for left and right installation**

Dimensions  
(in mm)

	$l_1$	$l_2^{**}$	$l_3^{**}$	$l_4$	$l_5^{**}$	$\varnothing c$
<b>R8-17-C01 PLUS</b>	471	511	528	17	40	45
<b>R12-17-C01 PLUS</b>	471	511	528	17	40	45
<b>R20-17-C01 PLUS</b>	500	540	557	17	40	45
<b>R30-17-C01 PLUS</b>	524	564	581	17	40	45
<b>R40-17-C01 PLUS</b>	539	579	596	17	40	45



\* C-plug connecting cables are available in various versions and lengths, and are to be ordered separately (cf. table on page 80)

\*\* Drive adapter width of O-S60 (4930 200 222 0); selection of a different drive adapter will change dimensions  $l_2$ ,  $l_3$  and  $l_5$



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# Roller shutter drives with integrated radio receiver B-Tronic

**C-plug B-TRONIC**

**P5-B01 ... P9-B01**

**R8-B01 ... R40-B01**

Suitable for use for:

- Roller shutters
- Insect protection



**Highlight: Feedback of position and status, along with repeating function which can be activated**



**Integrated bidirectional radio receiver and memory function** / The drive feeds back its position to the operator unit along with the status information



Compatible with the KNX-RF standard, allowing for easy integration into home automation installations



Can be programmed to recognise up to 16 transmitters



Switching times can be programmed with hand-held transmitters and CentralControl



Easy programming and approach of any two intermediate positions from any position with transmitter or automatic function



**Sensitive obstacle detection.**

The drive stops and reverses automatically if it meets an obstacle



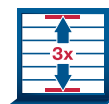
**Blockage detection** in the UP direction (antifreeze mechanism)



**Anti-freeze mechanism at the top** with automatic shading solution length adjustment that can be additionally activated



Automatic increase of the pressing force with **anti-lifting devices**



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



**Limit positions can be set with pinpoint accuracy** – depending on the requirements, the limit positions can also be set with pinpoint accuracy

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-B01</b>	2009 520 003 0	2009 520 001 0	5	16	64	0,35	80	*
<b>P9-16-B01</b>	2009 520 004 0	2009 520 002 0	9	16	64	0,47	110	*
<b>R8-17-B01</b>	2010 520 001 0		8	17	64	0,45	100	*
<b>R12-17-B01</b>	2010 520 002 0		12	17	64	0,50	110	*
<b>R20-17-B01</b>	2020 520 001 0		20	17	64	0,70	160	*
<b>R30-17-B01</b>	2030 520 001 0		30	17	64	0,90	210	*
<b>R40-17-B01</b>	2040 520 001 0		40	17	64	1,15	260	*

**Rated voltage:** 230 V/AC/50Hz

**Operating mode:** S2 4 min

**Degree of protection:** IP44



**Automatic limit position setting** – when fixed stops are used, the drive automatically detects the limit positions, regardless of whether rigid shaft connectors or flexible suspension springs are being used



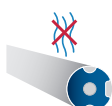
**Soft upper stop**



**Dynamic torque adjustment**  
to changes in the roller shutter element



**Fly screen protection function**



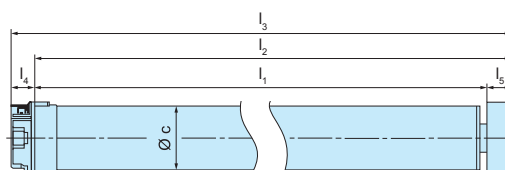
**Motor protected against overheating**



**Suitable for left and right installation**

Dimensions  
(in mm)

	$l_1$	$l_2$	$l_3$	$l_4$	$l_5$	$\varnothing c$
<b>P5-16-B01</b>	423	463 <sup>1</sup>	476 <sup>1</sup>	13	40 <sup>1</sup>	35
<b>P9-16-B01</b>	451	491 <sup>1</sup>	504 <sup>1</sup>	13	40 <sup>1</sup>	35
<b>R8-17-B01</b>	471	511 <sup>2</sup>	528 <sup>2</sup>	17	40 <sup>2</sup>	45
<b>R12-17-B01</b>	471	511 <sup>2</sup>	528 <sup>2</sup>	17	40 <sup>2</sup>	45
<b>R20-17-B01</b>	500	540 <sup>2</sup>	557 <sup>2</sup>	17	40 <sup>2</sup>	45
<b>R30-17-B01</b>	525	565 <sup>2</sup>	582 <sup>2</sup>	17	40 <sup>2</sup>	45
<b>R40-17-B01</b>	539,5	579,5 <sup>2</sup>	596,5 <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 80)

<sup>1</sup> Drive adapter width of O-S40 (4930 200 250 0) page 189; selection of a different drive adapter will change dimensions  $l_2$ ,  $l_3$  and  $l_5$

<sup>2</sup> Drive adapter width of O-S60 (4930 200 222 0) page 189; selection of a different drive adapter will change dimensions  $l_2$ ,  $l_3$  and  $l_5$



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# Roller shutter drives with integrated radio receiver EnOcean



**R8-N01...R40-N01**

Suitable for use for:

- Roller shutters



**Bidirectional radio receiver** - the drive reports back its position as well as status information



**Compatible with the EnOcean standard** for simple integration into home automation installations



Up to **14 incoming** and **two outgoing** learning relations



Easy programming and travel to **any two intermediate positions from any position** with transmitter or automatic function



**Feedback of position and status**, along with repeating function which can be activated



**Dynamic torque adjustment** to changes in the roller shutter element



**Blockage detection** in the UP direction (antifreeze mechanism)



**Sensitive obstacle detection** - the drive stops and reverses automatically if it meets an obstacle



**Anti-freeze mechanism at the top** with automatic shading solution length adjustment that can be additionally activated



Automatic increase of the pressing force with **anti-lifting devices**

Technical data

Technical data	Item number	Torque (Nm)	Speed (rpm)	Limit switch range (revolutions)	Nominal current (A)	Power consumption (W)	Connecting cable (m)	
	R8-17-N01	2010 520 003 0	8	17	64	0,45	100	*
	R12-17-N01	2010 520 004 0	12	17	64	0,50	110	*
	R20-17-N01	2020 520 002 0	20	17	64	0,75	160	*
	R30-17-N01	2030 520 002 0	30	17	64	0,90	205	*
	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

Supported EEPs

**F6-02-01**

**F6-03-01**

**D2-05-02**

**F6-05-00**

**F6-10-00**

**D5-00-01**

**F6-05-02**



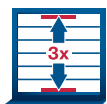
**Fly screen protection function**



**Direct programming of an EnOcean smoke detector** via software with remote management



**Soft upper stop**



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



**ReMan (remote management)**  
**ReCom (remote commissioning)**



**Automatic limit position setting** – when fixed stops are used, the drive automatically detects the limit positions, regardless of whether rigid shaft connectors are used



The roller shutter is locked in the DOWN direction (**lock-out protection**) when the EnOcean window handle is open



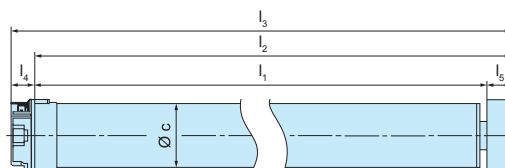
**Comfort ventilation function** in connection with an EnOcean window handle



**Precise limit position adjustment**

Dimensions  
(in mm)

	$l_1$	$l_2$	$l_3$	$l_4$	$l_5$	$\varnothing c$
<b>R8-17-N01</b>	471	511 <sup>1</sup>	528 <sup>1</sup>	17	40 <sup>1</sup>	45
<b>R12-17-N01</b>	471	511 <sup>1</sup>	528 <sup>1</sup>	17	40 <sup>1</sup>	45
<b>R20-17-N01</b>	500	540 <sup>1</sup>	557 <sup>1</sup>	17	40 <sup>1</sup>	45
<b>R30-17-N01</b>	524	564 <sup>1</sup>	581 <sup>1</sup>	17	40 <sup>1</sup>	45
<b>R40-17-N01</b>	539	579 <sup>1</sup>	596 <sup>1</sup>	17	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 80)

<sup>1</sup> Drive adapter width of O-S60 (4930 200 222 0) page 189; selection of a different drive adapter will change dimensions  $l_2$ ,  $l_3$  and  $l_5$



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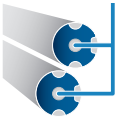


# Sun protection drives with electronic limit switching


## P5/20PS ... P9/16PS




**Highlight:** Universal use in many shade systems, with or without stop




**Supports parallel connection** without isolating relay




**Electronic limit switching**




**Soft upper stop** – optimum adaptation of closing forces for fabric protection = E12-V9



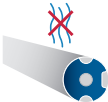
**Your advantage: Setting of limit positions** via switch on the drive head without the need for a special adjustment set




**Motor head can be overwrapped**




**Blockage detection** in both directions with automatic reversal and multiple testing



**Motor protected against overheating**



**Automatic shading solution length adjustment**



**Suitable for left and right installation**

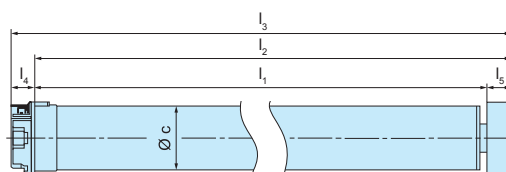
Technical data	Item number	Torque (Nm)	Speed (rpm)	Limit switch range (revolutions)	Nominal current (A)	Power consumption (W)	Connecting cable (m)
P5/20PS	2009 030 106 0	5	20	64	0,47	115	3
P5/30PS	2009 030 105 0	5	30	64	0,47	115	3
P9/16PS	2009 030 107 0	9	16	64	0,47	110	3

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



Dimensions  
(in mm)

	$l_1$	$l_2$	$l_3$	$l_4$	$l_5$	$\varnothing c$
<b>P5/20PS</b>	448	465	477	12	17	35
<b>P5/30PS</b>	448	465	477	12	17	35
<b>P9/16PS</b>	448	465	477	12	17	35



<sup>1</sup> Drive adapter width of 40 x 1 / 42 x 2 (4930 300 086 0) page 185; selection of a different drive adapter will change dimensions  $l_2$ ,  $l_3$  and  $l_5$



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# Sun protection drives with electronic limit switching

**C-plug**

**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



**Highlight:** Universal use in many shade systems, with or without stop



**Blockage detection** in both directions with automatic reversal and multiple testing



**Electronic limit switching**



**Fabric untensioning can be activated/deactivated**



**Your advantage: Setting of limit positions** via switch on the drive head without the need for a special adjustment set



**Automatic shading solution length adjustment**



**Optionally activatable:** Fabric stretching function



**Higher closing force** for cassette awnings (type R8 - L120)

Technical data

	Item number	Torque (Nm)	Speed (rpm)	Limit switch range (revolutions)	Nominal current (A)	Power consumption (W)	Connecting cable (m)
<b>P5-20-E12**</b>	2009 130 109 0	5	20	64	0,45	110	*
<b>P5-30-E12**</b>	2009 130 110 0	5	30	64	0,45	110	*
<b>P9-16-E12**</b>	2009 130 111 0	9	16	64	0,45	110	*
<b>R8-17-E12</b>	2010 130 161 0	8	17	64	0,45	100	*
<b>R12-17-E12</b>	2010 130 162 0	12	17	64	0,50	110	*
<b>R20-17-E12</b>	2020 130 146 0	20	17	64	0,70	160	*
<b>R30-17-E12</b>	2030 130 151 0	30	17	64	0,90	210	*
<b>R40-17-E12</b>	2040 130 158 0	40	17	64	1,15	260	*
<b>R50-11-E12</b>	2050 130 165 0	50	11	64	1,05	240	*
<b>L50-17-E12</b>	2050 130 166 0	50	17	64	1,4	315	*
<b>L60-11-E12</b>	2060 130 116 0	60	11	64	1,2	265	*
<b>L60-17-E12</b>	2060 130 115 0	60	17	64	1,75	380	*
<b>L70-17-E12</b>	2070 130 114 0	70	17	64	1,9	430	*
<b>L80-11-E12</b>	2080 130 146 0	80	11	64	1,4	310	*
<b>L120-11-E12</b>	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 80)

\*\* Soft upper stop





**Setting of limit positions** via conventional operating element, e. g. rotary switch



**Highlight: Auto-install function**



**Supports parallel connection** without isolating relay



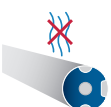
**Soft upper stop** – optimum adaptation of closing forces for fabric protection



**Motor head can be overwrapped**



**Reversal** can be activated in the outermost limit position

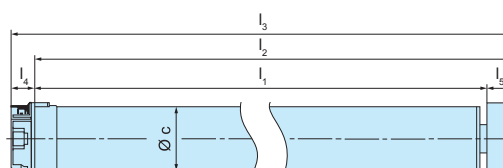


**Motor protected against overheating**



**Suitable for left and right installation**

Dimensions (in mm)	$l_1$	$l_2$	$l_3$	$l_4$	$l_5$	$\varnothing c$
<b>P5-20-E12</b>	451	468 <sup>1</sup>	481 <sup>1</sup>	13	17 <sup>1</sup>	35
<b>P5-30-E12</b>	451	468 <sup>1</sup>	481 <sup>1</sup>	13	17 <sup>1</sup>	35
<b>P9-16-E12</b>	451	468 <sup>1</sup>	481 <sup>1</sup>	13	17 <sup>1</sup>	35
<b>R8-17-E12</b>	471	511 <sup>2</sup>	528 <sup>2</sup>	17	40 <sup>2</sup>	45
<b>R12-17-E12</b>	471	511 <sup>2</sup>	528 <sup>2</sup>	17	40 <sup>2</sup>	45
<b>R20-17-E12</b>	500	540 <sup>2</sup>	557 <sup>2</sup>	17	40 <sup>2</sup>	45
<b>R30-17-E12</b>	524	564 <sup>2</sup>	581 <sup>2</sup>	17	40 <sup>2</sup>	45
<b>R40-17-E12</b>	539	579 <sup>2</sup>	596 <sup>2</sup>	17	40 <sup>2</sup>	45
<b>R50-11-E12</b>	553	593 <sup>2</sup>	610 <sup>2</sup>	17	40 <sup>2</sup>	45
<b>L50-17-E12</b>	535,5	565,5 <sup>3</sup>	585,5 <sup>3</sup>	20	30 <sup>3</sup>	58
<b>L60-11-E12</b>	515,5	545,5 <sup>3</sup>	565,5 <sup>3</sup>	20	30 <sup>3</sup>	58
<b>L60-17-E12</b>	565,5	595,5 <sup>3</sup>	615,5 <sup>3</sup>	20	30 <sup>3</sup>	58
<b>L70-17-E12</b>	565,5	595,5 <sup>3</sup>	615,5 <sup>3</sup>	20	30 <sup>3</sup>	58
<b>L80-11-E12</b>	535,5	565,5 <sup>3</sup>	585,5 <sup>3</sup>	20	30 <sup>3</sup>	58
<b>L120-11-E12</b>	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 185; selection of a different drive adapter will change dimensions  $l_2$ ,  $l_3$  and  $l_5$

<sup>2</sup> Drive adapter width of DW78R+F (4930 300 091 0) page 183; selection of a different drive adapter will change dimensions  $l_2$ ,  $l_3$  and  $l_5$

<sup>3</sup> Drive adapter width of DW78N (4931 300 365 0) page 183; selection of a different drive adapter will change dimensions  $l_2$ ,  $l_3$  and  $l_5$



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# Sun protection drives with electronic limit switching

**C+plug**

**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



**Highlight:** Universal use in many shade systems, with or without stop



**Higher closing force** for cassette awnings can be activated during installation



**Electronic limit switching**



**Limit positions status indicator (LSI)** signals missing limit positions



**Blockage detection** in both directions with automatic reversal and multiple testing



**Setting of limit positions** via conventional operating element, e. g. rotary switch



**Automatic shading solution length adjustment**



**Supports parallel connection** without isolating relay

Technical data

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

**Rated voltage:** 230 V/AC/50Hz

**Operating mode:** S2 4 min

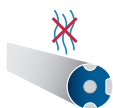
**Degree of protection:** IP44



**Soft upper stop** – optimum adaptation of closing forces for fabric protection



**Motor head can be overwrapped**



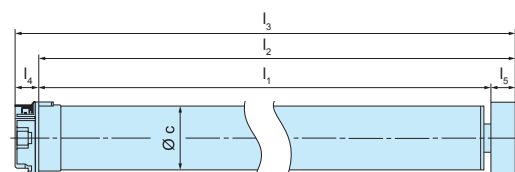
**Motor protected against overheating**



**Suitable for left and right installation**



Dimensions (in mm)	$l_1$	$l_2$	$l_3$	$l_4$	$l_5$	$\varnothing c$
<b>R8-17-E15</b>	473	513 <sup>1</sup>	529 <sup>1</sup>	16	40 <sup>1</sup>	45
<b>R12-17-E15</b>	473	513 <sup>1</sup>	529 <sup>1</sup>	16	40 <sup>1</sup>	45
<b>R20-17-E15</b>	502	542 <sup>1</sup>	558 <sup>1</sup>	16	40 <sup>1</sup>	45
<b>R30-17-E15</b>	527	567 <sup>1</sup>	583 <sup>1</sup>	16	40 <sup>1</sup>	45
<b>R40-17-E15</b>	540	580 <sup>1</sup>	596 <sup>1</sup>	16	40 <sup>1</sup>	45
<b>R50-11-E15</b>	540	580 <sup>1</sup>	596 <sup>1</sup>	16	40 <sup>1</sup>	45
<b>L50-17-E15</b>	535	565 <sup>2</sup>	585 <sup>2</sup>	20	30 <sup>3</sup>	58
<b>L60-11-E15</b>	515	545 <sup>2</sup>	565 <sup>2</sup>	20	30 <sup>2</sup>	58
<b>L60-17-E15</b>	565	595 <sup>2</sup>	615 <sup>2</sup>	20	30 <sup>2</sup>	58
<b>L70-17-E15</b>	565	595 <sup>2</sup>	615 <sup>2</sup>	20	30 <sup>2</sup>	58
<b>L80-11-E15</b>	535	565 <sup>2</sup>	585 <sup>2</sup>	20	30 <sup>2</sup>	58
<b>L120-11-E15</b>	565	595 <sup>2</sup>	615 <sup>2</sup>	20	30 <sup>2</sup>	58



\* C-plug connecting cables are available in various versions and lengths, and are to be ordered separately (cf. table on page 80)

<sup>1</sup> Drive adapter width of DW78R+F (4930 300 091 0) page 183; selection of a different drive adapter will change dimensions  $l_2$ ,  $l_3$  and  $l_5$

<sup>2</sup> Drive adapter width of DW78N (4931 300 365 0) page 183; selection of a different drive adapter will change dimensions  $l_2$ ,  $l_3$  and  $l_5$



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# Sun protection drives for locking systems with electronic limit switching

**C+plug**

**R8-E16 ... R40-E16**

**L50-E16 ... L120-E16**

Suitable for use for:

■ Locking systems

**E**

**Electronic limit switching**



**Can be used for wind-resistant screens (locking system)**



**Blockage detection** in both directions with automatic reversal and multiple testing



**Automatic shading solution length adjustment**



**Easy limit position setting** with adjustment set – outer limit position by pressing a button, upper limit position automatically



**Setting of limit positions** via conventional operating element, e. g. rotary switch

Technical data

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



**Limit positions status indicator (LSI)** signals missing limit positions



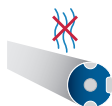
**Supports parallel connection** without isolating relay



**Soft upper stop** – optimum adaptation of closing forces for fabric protection



**Motor head can be overwrapped**



**Motor protected against overheating**



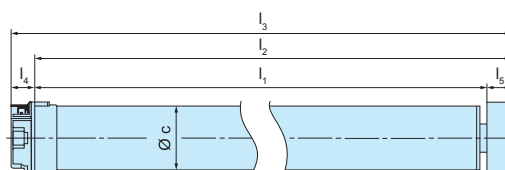
**Suitable for left and right installation**



**Fabric untensioning can be activated/deactivated**

Dimensions  
(in mm)

	$l_1$	$l_2$	$l_3$	$l_4$	$l_5$	$\varnothing c$
<b>R8-17-E16</b>	471	511 <sup>1</sup>	528 <sup>1</sup>	17	40 <sup>1</sup>	45
<b>R12-17-E16</b>	471	511 <sup>1</sup>	528 <sup>1</sup>	17	40 <sup>1</sup>	45
<b>R20-17-E16</b>	500	540 <sup>1</sup>	557 <sup>1</sup>	17	40 <sup>1</sup>	45
<b>R30-17-E16</b>	524	564 <sup>1</sup>	591 <sup>1</sup>	17	40 <sup>1</sup>	45
<b>R40-17-E16</b>	539	579 <sup>1</sup>	596 <sup>1</sup>	17	40 <sup>1</sup>	45
<b>L50-17-E16</b>	535,5	565,5 <sup>1</sup>	585,5 <sup>1</sup>	20	30 <sup>1</sup>	58
<b>L70-17-E16</b>	565,5	595,5 <sup>1</sup>	615,5 <sup>1</sup>	20	30 <sup>1</sup>	58
<b>L80-11-E16</b>	535,5	565,5 <sup>1</sup>	585,5 <sup>1</sup>	20	30 <sup>1</sup>	58
<b>L100-11-E16</b>	565,5	595,5 <sup>1</sup>	615,5 <sup>1</sup>	20	30 <sup>1</sup>	58
<b>L120-11-E16</b>	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 183; selection of a different drive adapter will change dimensions  $l_2$ ,  $l_3$  and  $l_5$



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# SMI sun protection drive with electronic limit switching

**C+plug**

**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
- Flounces
- Insect protection
- Inside screens
- Projection screen

**E**

**Electronic limit switching**



Upper **stop behaviour** can be configured



**Blockage detection** in both directions with automatic reversal and multiple testing



**Automatic shading solution length adjustment**



**Fabric tension function** function can be switched on in the lower limit position



**Lower limit position setting:** Point (automatic detection or freely programmable)  
**Upper limit position setting:** Point or stop



**Fabric untensioning** can be switched on/off in the upper limit position



**Intelligent installation management** with limit positions status indicator (LSI)

Technical data

	Item number	Torque (Nm)	Speed (rpm)	Limit switch range (revolutions)	Nominal current (A)	Power consumption (W)	Connecting cable (m)
<b>R8-17-S12</b>	2010 130 505 0	8	17	64	0,45	100	*
<b>R12-17-S12</b>	2010 130 506 0	12	17	64	0,50	110	*
<b>R20-17-S12</b>	2020 130 503 0	20	17	64	0,75	160	*
<b>R30-17-S12</b>	2030 130 503 0	30	17	64	0,90	205	*
<b>R40-17-S12</b>	2040 130 503 0	40	17	64	1,15	230	*
<b>R50-11-S12</b>	2050 130 505 0	50	11	64	1,10	240	*
<b>L50-17-S12</b>	2050 130 506 0	50	17	64	1,40	315	*
<b>L60-11-S12</b>	2060 130 504 0	60	11	64	1,20	265	*
<b>L60-17-S12</b>	2060 130 503 0	60	17	64	1,75	380	*
<b>L70-17-S12</b>	2070 130 503 0	70	17	64	1,90	430	*
<b>L80-11-S12</b>	2080 130 506 0	80	11	64	1,40	310	*
<b>L120-11-S12</b>	2120 130 503 0	120	11	64	1,90	435	*

**Rated voltage:** 230 V/AC/50Hz

**Operating mode:** S2 4 min

**Degree of protection:** IP44



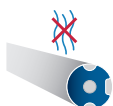
**Thermal protection** incl. electronic detection of activation



**Auto-install function**



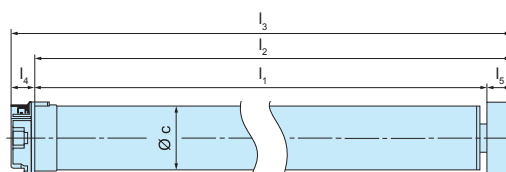
**Suitable for left and right installation**



**Motor protected against overheating**



Dimensions (in mm)	$l_1$	$l_2$	$l_3$	$l_4$	$l_5$	$\varnothing c$
<b>R8-17-S12</b>	471	511 <sup>1</sup>	528 <sup>1</sup>	17	40 <sup>1</sup>	45
<b>R12-17-S12</b>	471	511 <sup>1</sup>	528 <sup>1</sup>	17	40 <sup>1</sup>	45
<b>R20-17-S12</b>	514	531 <sup>1</sup>	548 <sup>1</sup>	17	17 <sup>1</sup>	45
<b>R30-17-S12</b>	542	559 <sup>1</sup>	576 <sup>1</sup>	17	17 <sup>1</sup>	45
<b>R40-17-S12</b>	553	570 <sup>1</sup>	587 <sup>1</sup>	17	17 <sup>1</sup>	45
<b>R50-11-S12</b>	553	570 <sup>1</sup>	587 <sup>1</sup>	17	17 <sup>1</sup>	45
<b>L50-14-S12</b>	535	565 <sup>2</sup>	585 <sup>2</sup>	20	30 <sup>2</sup>	58
<b>L60-11-S12</b>	515	545 <sup>2</sup>	565 <sup>2</sup>	20	30 <sup>2</sup>	58
<b>L60-17-S12</b>	565	595 <sup>2</sup>	615 <sup>2</sup>	20	30 <sup>2</sup>	58
<b>L70-17-S12</b>	565	595 <sup>2</sup>	615 <sup>2</sup>	20	30 <sup>2</sup>	58
<b>L80-11-S12</b>	535	565 <sup>2</sup>	585 <sup>2</sup>	20	30 <sup>2</sup>	58
<b>L120-11-S12</b>	565	595 <sup>2</sup>	615 <sup>2</sup>	20	30 <sup>2</sup>	58



\* C-plug connecting cables are available in various versions and lengths, and are to be ordered separately (cf. table on page 80)

<sup>1</sup> Drive adapter width of DW78R+F (4930 300 091 0) page 183; selection of a different drive adapter will change dimensions  $l_2$ ,  $l_3$  and  $l_5$

<sup>2</sup> Drive adapter width of DW78N (4931 300 365 0) page 183; selection of a different drive adapter will change dimensions  $l_2$ ,  $l_3$  and  $l_5$

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

**C+plug**

**P5-E18 ... P9-E18**

**R8-E18 ... R50-E18**

Suitable for use for:

■ ZIP screens



**Highlight: Sensitive obstacle detection** in the DOWN direction with automatic reversal and multiple testing



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

**E**

**Electronic limit switching**



**Setting of limit positions** via conventional operating element, e. g. rotary switch



**Your advantage: Automatic detection** of limit positions



**Fabric untensioning** can be activated/deactivated



**Blockage detection** in the UP direction (antifreeze mechanism) with automatic reversal and multiple testing



**Automatic shading solution length adjustment**



**Limit positions status indicator (LSI)** signals missing limit positions



**Supports parallel connection** without isolating relay

Technical data

	Item number	Torque (Nm)	Speed (rpm)	Limit switch range (revolutions)	Nominal current (A)	Power consumption (W)	Connecting cable (m)
<b>P5-16-E18</b>	2009 130 113 0	5	16	64	0,35	80	*
<b>P5-20-E18</b>	2009 130 106 0	5	20	64	0,45	110	*
<b>P5-30-E18</b>	2009 130 107 0	5	30	64	0,45	110	*
<b>P9-16-E18</b>	2009 130 108 0	9	16	64	0,45	110	*
<b>R8-17-E18</b>	2010 130 159 0	8	17	64	0,45	100	*
<b>R12-17-E18</b>	2010 130 160 0	12	17	64	0,50	110	*
<b>R20-17-E18</b>	2020 130 145 0	20	17	64	0,70	160	*
<b>R30-17-E18</b>	2030 130 150 0	30	17	64	0,90	210	*
<b>R40-17-E18</b>	2040 130 157 0	40	17	64	1,15	260	*
<b>R50-11-E18</b>	2050 130 202 0	50	11	64	1,05	240	*

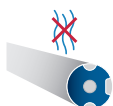
**Rated voltage:** 230 V/AC /50Hz

**Operating mode:** S2 4 min

**Degree of protection:** IP44



Motor head can be overwrapped



Motor protected against overheating



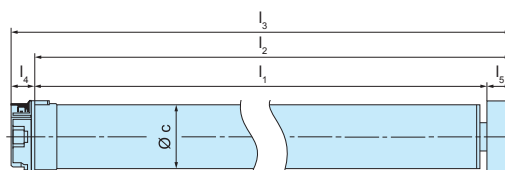
Suitable for left and right installation



Intelligent installation management



Dimensions (in mm)	$l_1$	$l_2$	$l_3$	$l_4$	$l_5$	$\varnothing c$
<b>P5-16-E18</b>	404			13	40 <sup>1</sup>	35
<b>P5-20-E18</b>	451	491 <sup>1</sup>	504 <sup>1</sup>	13	40 <sup>1</sup>	35
<b>P5-30-E18</b>	451	491 <sup>1</sup>	504 <sup>1</sup>	13	40 <sup>1</sup>	35
<b>P9-16-E18</b>	451	491 <sup>1</sup>	504 <sup>1</sup>	13	40 <sup>1</sup>	35
<b>R8-17-E18</b>	471	511 <sup>2</sup>	528 <sup>2</sup>	17	40 <sup>2</sup>	45
<b>R12-17-E18</b>	471	511 <sup>2</sup>	528 <sup>2</sup>	17	40 <sup>2</sup>	45
<b>R20-17-E18</b>	500	540 <sup>2</sup>	557 <sup>2</sup>	17	40 <sup>2</sup>	45
<b>R30-17-E18</b>	529	569 <sup>2</sup>	586 <sup>2</sup>	17	40 <sup>2</sup>	45
<b>R40-17-E18</b>	539,5	579,5 <sup>2</sup>	596,5 <sup>2</sup>	17	40 <sup>2</sup>	45
<b>R50-11-E18</b>	539,5	579,5 <sup>2</sup>	596,5 <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 80)

<sup>1</sup> Drive adapter width of O-40x1,3/1,5 (4930 200 246 0) page 189; selection of a different drive adapter will change dimensions  $l_2$ ,  $l_3$  and  $l_5$

<sup>2</sup> Drive adapter width of O-DW78R+F (4930 200 274 0) page 190; selection of a different drive adapter will change dimensions  $l_2$ ,  $l_3$  and  $l_5$



**BECKER**



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



R8-S18 ... R40-S18

Suitable for use for:  
■ ZIP screens

E

Electronic limit switching



Automatic shading solution length adjustment



**Highlight: Sensitive obstacle detection** in the DOWN direction with automatic reversal and multiple testing



**Lower limit position setting:** Point (automatic detection or freely programmable)  
**Upper limit position setting:** Point or stop



**Blockage detection** in both directions with automatic reversal and multiple testing



**Intelligent installation management** with limit positions status indicator (LSI)



**Fabric untensioning** can be switched on/off in the upper limit position



Soft upper stop

Technical data

	Item number	Torque (Nm)	Speed (rpm)	Limit switch range (revolutions)	Nominal current (A)	Power consumption (W)	Connecting cable (m)
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





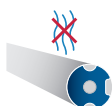
**Thermal protection** incl. electronic detection of activation



**Auto-install function** for zip applications with heavy end strip



**Suitable for left and right installation**



**Motor protected against overheating**



DRIVES

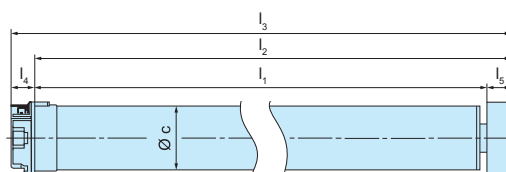
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Dimensions (in mm)	$l_1$	$l_2$	$l_3$	$l_4$	$l_5$	$\varnothing c$
<b>R8-17-S18</b>	471	511 <sup>1</sup>	528 <sup>1</sup>	17	40 <sup>1</sup>	45
<b>R12-17-S18</b>	471	511 <sup>1</sup>	528 <sup>1</sup>	17	40 <sup>1</sup>	45
<b>R20-17-S18</b>	500	540 <sup>1</sup>	557 <sup>1</sup>	17	40 <sup>1</sup>	45
<b>R30-17-S18</b>	524	564 <sup>1</sup>	581 <sup>1</sup>	17	40 <sup>1</sup>	45
<b>R40-17-S18</b>	539	579 <sup>1</sup>	596 <sup>1</sup>	17	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 80)

<sup>1</sup> Drive adapter width of O-63N (4930 200 276 0) page 190; selection of a different drive adapter will change dimensions  $l_2$ ,  $l_3$  and  $l_5$



**BECKER**



# Universal sun protection drives with integrated radio receiver

**C+plug**

**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



**Highlight:** Universal use in many shade systems, with or without stop



**Two freely selectable intermediate positions can be programmed**



**Highlight:** Auto-install function



**Fabric untensioning can be activated/deactivated**



**Electronic limit switching** with integrated radio receiver compatible with the Centronic range of control units



**On-site operation** via conventional single button



**Blockage detection** in both directions with automatic reversal and multiple testing



**Automatic shading solution length adjustment**

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**</b>	2009 130 117 0	5	20	64	0,45	110	*
<b>P5-30-C12**</b>	2009 130 118 0	5	30	64	0,45	110	*
<b>P9-16-C12**</b>	2009 130 119 0	9	16	64	0,45	110	*
<b>R8-17-C12</b>	2010 130 167 0	8	17	64	0,45	100	*
<b>R12-17-C12</b>	2010 130 168 0	12	17	64	0,50	110	*
<b>R20-17-C12</b>	2020 130 149 0	20	17	64	0,70	160	*
<b>R30-17-C12</b>	2030 130 156 0	30	17	64	0,90	210	*
<b>R40-17-C12</b>	2040 130 162 0	40	17	64	1,15	260	*
<b>R50-11-C12</b>	2050 130 172 0	50	11	64	1,05	240	*
<b>L50-17-C12</b>	2050 130 173 0	50	17	64	1,40	315	*
<b>L60-11-C12</b>	2060 130 119 0	60	11	64	1,20	265	*
<b>L60-17-C12</b>	2060 130 120 0	60	17	64	1,75	380	*
<b>L70-17-C12</b>	2070 130 116 0	70	17	64	1,90	430	*
<b>L80-11-C12</b>	2080 130 150 0	80	11	64	1,40	310	*
<b>L120-11-C12</b>	2120 130 117 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 80)

\*\*Soft upper stop



**Higher closing force** for cassette awnings  
(versions R8 - L120)



**Optionally activatable:** Fabric stretching function



**Intermediate positions** can be approached from any position



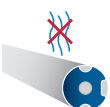
**Single, group and central control** possible with up to 16 transmitters



**Soft upper stop** – optimum adaptation of closing forces



**Motor head can be overwrapped**



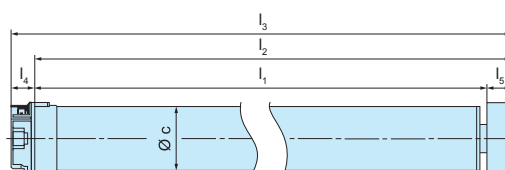
**Motor protected against overheating**



**Suitable for left and right installation**

Dimensions  
(in mm)

	$l_1$	$l_2$	$l_3$	$l_4$	$l_5$	$\varnothing c$
<b>P5-20-C12</b>	453	470 <sup>1</sup>	483 <sup>1</sup>	13	17 <sup>1</sup>	35
<b>P5-30-C12</b>	453	470 <sup>1</sup>	483 <sup>1</sup>	13	17 <sup>1</sup>	35
<b>P9-16-C12</b>	453	470 <sup>1</sup>	483 <sup>1</sup>	13	17 <sup>1</sup>	35
<b>R8-17-C12</b>	471	511 <sup>2</sup>	528 <sup>2</sup>	17	40 <sup>2</sup>	45
<b>R12-17-C12</b>	471	511 <sup>2</sup>	528 <sup>2</sup>	17	40 <sup>2</sup>	45
<b>R20-17-C12</b>	500	540 <sup>2</sup>	557 <sup>2</sup>	17	40 <sup>2</sup>	45
<b>R30-17-C12</b>	524	564 <sup>2</sup>	581 <sup>2</sup>	17	40 <sup>2</sup>	45
<b>R40-17-C12</b>	539	579 <sup>2</sup>	596 <sup>2</sup>	17	40 <sup>2</sup>	45
<b>R50-17-C12</b>	553	570 <sup>2</sup>	587 <sup>2</sup>	17	40 <sup>2</sup>	45
<b>L50-17-C12</b>	535,5	565,5 <sup>3</sup>	585,5 <sup>3</sup>	20	30 <sup>3</sup>	58
<b>L60-11-C12</b>	515,5	545,5 <sup>3</sup>	565,5 <sup>3</sup>	20	30 <sup>3</sup>	58
<b>L60-17-C12</b>	565,5	595,5 <sup>3</sup>	615,5 <sup>3</sup>	20	30 <sup>3</sup>	58
<b>L70-17-C12</b>	565,5	595,5 <sup>3</sup>	615,5 <sup>3</sup>	20	30 <sup>3</sup>	58
<b>L80-11-C12</b>	535,5	565,5 <sup>3</sup>	585,5 <sup>3</sup>	20	30 <sup>3</sup>	58
<b>L120-11-C12</b>	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 185; selection of a different drive adapter will change dimensions  $l_2$ ,  $l_3$  and  $l_5$

<sup>2</sup> Drive adapter width of DW78 R+F (4930 300 091 0) page 183; selection of a different drive adapter will change dimensions  $l_2$ ,  $l_3$  and  $l_5$

<sup>3</sup> Drive adapter width of DW78N (4931 300 365 0) page 183; selection of a different drive adapter will change dimensions  $l_2$ ,  $l_3$  and  $l_5$



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# Sun protection drives for locking systems with integrated radio receiver

**C+plug**

**R8-C16 ... R40-C16**

**L50-C16 ... L120-C16**

Suitable for use for:

- Locking systems



868,3 MHz

**Electronic limit switching** with integrated radio receiver compatible with the Centronic range of control units



**Can be used for wind-resistant screens (locking system)**



**Blockage detection** in both directions with automatic reversal and multiple testing



**Easy limit position setting** with Centronic operating element



**On-site operation** via conventional single button



**Automatic shading solution length adjustment**



**Limit positions status indicator (LSI)** signals missing limit positions



**Soft upper stop** – optimum adaptation of closing forces for fabric protection

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

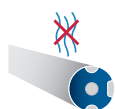
**Rated voltage:** 230 V/AC/50Hz

**Operating mode:** S2 4 min

**Degree of protection:** IP44



Motor head can be overwrapped



Motor protected against overheating

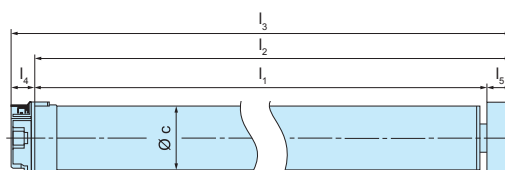


Suitable for left and right installation



Fabric untensioning can be activated/deactivated

Dimensions (in mm)	$l_1$	$l_2$	$l_3$	$l_4$	$l_5$	$\varnothing c$
<b>R8-17-C16</b>	471	511 <sup>1</sup>	528 <sup>1</sup>	17	40 <sup>1</sup>	45
<b>R12-17-C16</b>	471	511 <sup>1</sup>	528 <sup>1</sup>	17	40 <sup>1</sup>	45
<b>R20-17-C16</b>	500	540 <sup>1</sup>	557 <sup>1</sup>	17	40 <sup>1</sup>	45
<b>R30-17-C16</b>	524	564 <sup>1</sup>	591 <sup>1</sup>	17	40 <sup>1</sup>	45
<b>R40-17-C16</b>	539	579 <sup>1</sup>	596 <sup>1</sup>	17	40 <sup>1</sup>	45
<b>L50-17-C16</b>	536	566 <sup>1</sup>	586 <sup>1</sup>	20	30 <sup>1</sup>	58
<b>L70-17-C16</b>	566	596 <sup>1</sup>	616 <sup>1</sup>	20	30 <sup>1</sup>	58
<b>L80-11-C16</b>	536	566 <sup>1</sup>	586 <sup>1</sup>	20	30 <sup>1</sup>	58
<b>L100-11-C16</b>	566	596 <sup>1</sup>	616 <sup>1</sup>	20	30 <sup>1</sup>	58
<b>L120-11-C16</b>	566	596 <sup>1</sup>	616 <sup>1</sup>	20	30 <sup>1</sup>	58



\* C-plug connecting cables are available in various versions and lengths, and are to be ordered separately (cf. table on page 80)

<sup>1</sup> Drive adapter width of DW78R+F (4930 300 091 0) page 183; selection of a different drive adapter will change dimensions  $l_2$ ,  $l_3$  and  $l_5$



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

**C+plug**

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

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

Suitable for use for:

■ ZIP screens



**Highlight: Sensitive obstacle detection** in the DOWN direction with automatic reversal and multiple testing



**Limit positions status indicator (LSI)** signals missing limit positions



**Electronic limit switching** with integrated radio receiver compatible with the Centronic range of control units



**Two freely selectable intermediate positions** can be programmed



**Your advantage: Automatic detection of the limit positions**



**Fabric untensioning** can be activated/deactivated



**Blockage detection** in the UP direction (antifreeze mechanism) with automatic reversal and multiple testing



**Automatic shading solution length adjustment**



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



**Motor head can be overwrapped**

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</b>	2009 130 114 0	5	20	64	0,45	110	*
<b>P5-30-C18</b>	2009 130 115 0	5	30	64	0,45	110	*
<b>P9-16-C18</b>	2009 130 116 0	9	16	64	0,45	110	*
<b>R8-17-C18</b>	2010 130 163 0	8	17	64	0,45	100	*
<b>R12-17-C18</b>	2010 130 164 0	12	17	64	0,50	110	*
<b>R20-17-C18</b>	2020 130 147 0	20	17	64	0,70	160	*
<b>R30-17-C18</b>	2030 130 152 0	30	17	64	0,90	210	*
<b>R40-17-C18</b>	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





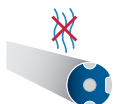
**Intermediate positions** can be approached from any position



**Single, group and central control** possible with up to 16 transmitters



**On-site operation** via conventional single button



**Motor protected against overheating**

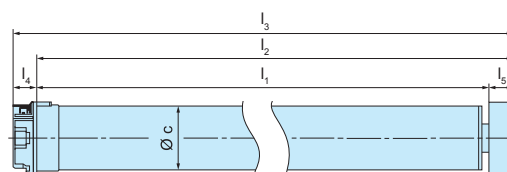


**Suitable for left and right installation**



Dimensions  
(in mm)

	$l_1$	$l_2$	$l_3$	$l_4$	$l_5$	$\varnothing c$
<b>P5-20-C18</b>	453	493 <sup>1</sup>	506 <sup>1</sup>	13	40 <sup>1</sup>	35
<b>P5-30-C18</b>	453	493 <sup>1</sup>	506 <sup>1</sup>	13	40 <sup>1</sup>	35
<b>P9-16-C18</b>	453	493 <sup>1</sup>	506 <sup>1</sup>	13	40 <sup>1</sup>	35
<b>R8-17-C18</b>	471	511 <sup>2</sup>	528 <sup>2</sup>	17	40 <sup>2</sup>	45
<b>R12-17-C18</b>	471	511 <sup>2</sup>	528 <sup>2</sup>	17	40 <sup>2</sup>	45
<b>R20-17-C18</b>	500	540 <sup>2</sup>	557 <sup>2</sup>	17	40 <sup>2</sup>	45
<b>R30-17-C18</b>	524	564 <sup>2</sup>	581 <sup>2</sup>	17	40 <sup>2</sup>	45
<b>R40-17-C18</b>	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 80)

<sup>1</sup> Drive adapter width of O-40x1,3/1,5 (4930 200 246 0) page 189; selection of a different drive adapter will change dimensions  $l_2$ ,  $l_3$  and  $l_5$

<sup>2</sup> Drive adapter width of O-DW78R+F (4930 200 274 0) page 190; selection of a different drive adapter will change dimensions  $l_2$ ,  $l_3$  and  $l_5$



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# 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



[illegible]

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# Awning drives

## load table

.....

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

# Sun protection drives

## function matrix

.....

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



	4 m		4,5 m		5 m	
	Ø R	Ø L	Ø R	Ø L	Ø R	Ø L
	50	44	50	44	50	44
	50	44	50	44	50	44
	50	44	50	44	50	44
		80		80		80
		80		80		80
		80		80		80
		120		120		120
		120		120		120
		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.

Electronic limit switching								
	E12			E15		E16		
	P (Ø35)	R (Ø45)	L (Ø58)	R (Ø45)	L (Ø58)	P (Ø35)	R (Ø45)	L (Ø58)
	5–9	8–50	50–120	8–50	50–120	5–9	8–40	50–120
	16–30	11–17	11–17	11–17	11–17	16–20	17	11–17
	x	x	x	x	x	x	x	x
	x	x	x	x	x	x	x	x
	x	x	x					
	x	x	x	x	x	x	x	x
	x	x	x					
	x	x	x	x	x			
						x	x	x
	x	x	x					
	x	x	x	x	x	x	x	x
	x	x	x					
	x	x	x	x	x	x	x	x
	x	x	x	x	x	x	x	x
	x	x	x	x	x			
	x	x	x	x	x	x	x	x
	x	x	x	x	x	x	x	x



# Sun protection drives

## function matrix

.....

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

		Integrated radio receiver							
	S18	C12			C16			C18	
	R (Ø45)	P (Ø35)	R (Ø45)	L (Ø58)	P (Ø35)	R (Ø45)	L (Ø58)	P (Ø 35)	R (Ø 45)
	8–40	5–9	8–50	50–120	5–9	8–40	50–120	5–9	8–40
	17	16–30	11–17	11–17	16–20	17	11–17	16–30	17
	×	×	×	×	×	×	×	×	×
	×	×	×	×	×	×	×	×	×
	×	×	×	×	×	×	×	×	×
		×	×	×	×	×	×	×	×
		×	×	×	×	×	×	×	×
	×	×	×	×				×	×
					×	×	×		
		×	×	×				×	×
	×	×	×	×	×	×	×	×	×
		×	×	×					
	×	×	×	×				×	×
	×	×	×	×				×	×
	×	×	×	×	×	×	×	×	×
	×	×	×	×	×	×	×	×	×
		×	×	×					
	×	×	×	×	×	×	×	×	×
	×	×	×	×	×	×	×	×	×

DRIVES

CONTROL UNITS

ELECTRICAL  
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APPENDIX



BECKER



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

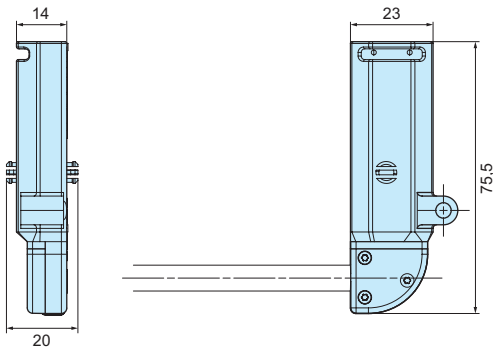
Connecting cable (m)	Colour	Item no.
0,5 m	white	2010 270 603 0
1 m	white	2010 270 408 0
2 m	white	2010 270 442 0
2 m	black	2010 270 464 0
3 m	white	2010 270 380 0
3 m	black	2010 270 541 0
5 m	white	2010 270 421 0
5 m	black	2010 270 698 0
10 m	white	2010 270 423 0
10 m	black	2010 270 699 0

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



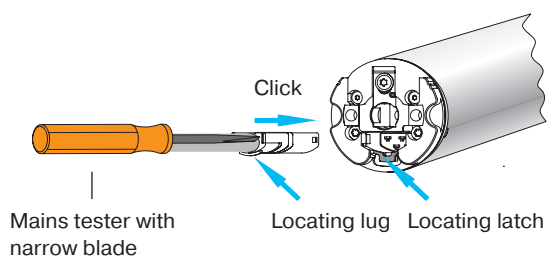
## Assembly tool

- 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

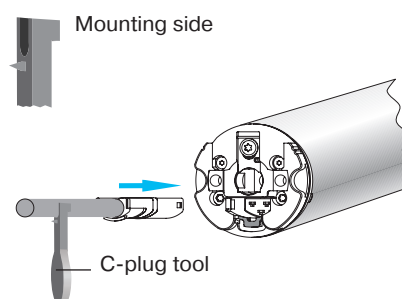
Item no. 2010 300 365 0



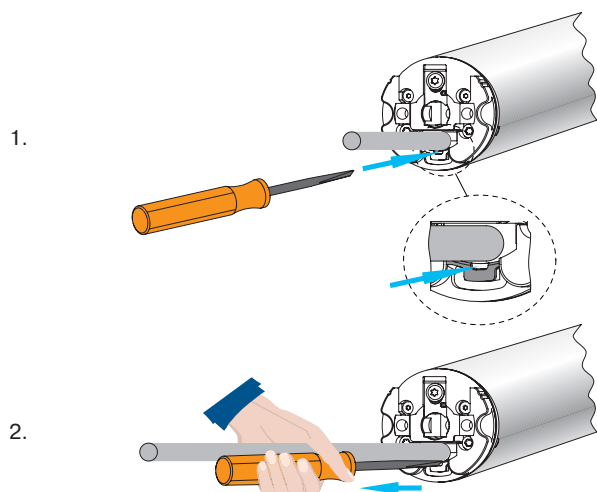
### Mounting with mains tester



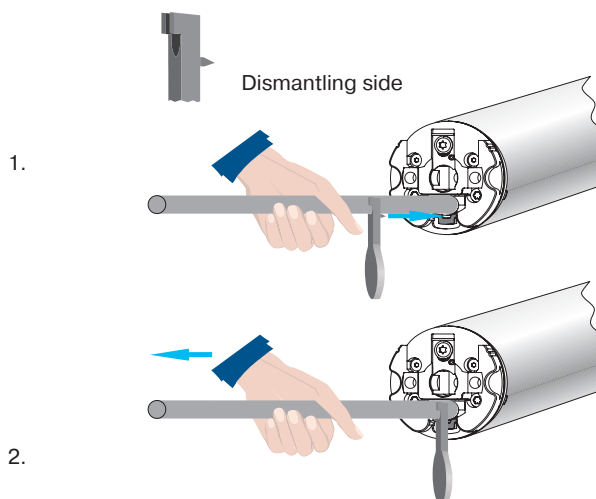
### Mounting with C-plug tool



### Dismantling with mains tester



### Dismantling with C-plug tool



# Overview

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# 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 $\cos \varphi = 1$
Degree of protection	IP20
Class of protection	II
Permissible ambient temperature	0 to +55 °C
Type of mounting	Surface-mounted

### 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 $\cos \varphi = 1$
Degree of protection	IP20
Class of protection	II
Permissible ambient temperature	0 to +55 °C
Type of mounting	Flush-mounted 58 mm diameter, wall mounting

### 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)

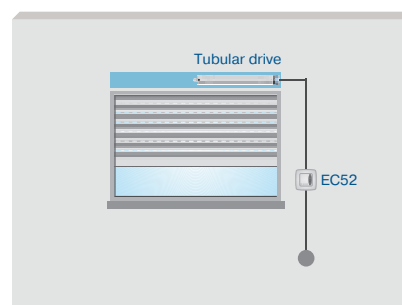
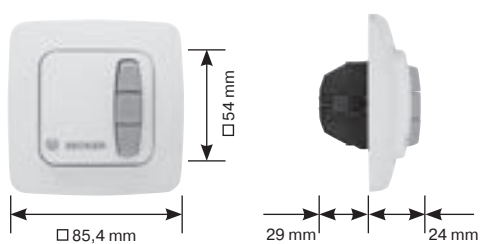
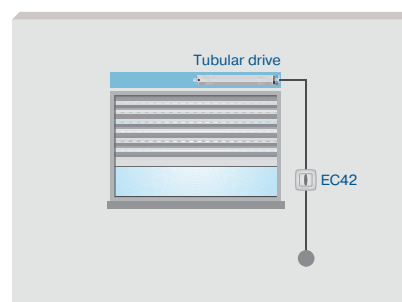
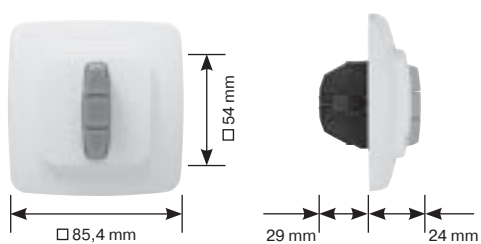
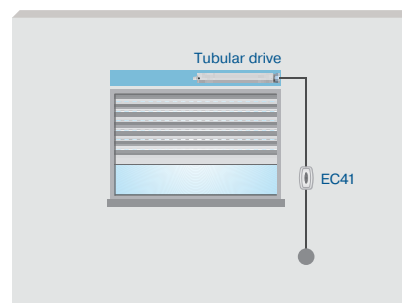
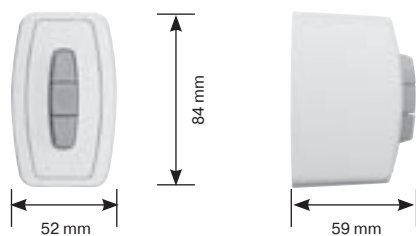
#### Item no. 4030 000 001 0

Colour	Alpine white
Rated voltage	230 V/AC/50 Hz
Switching current	6A/230 V/AC at $\cos \varphi = 1$
Degree of protection	IP20
Class of protection	II
Permissible ambient temperature	0 to +55 °C
Type of mounting	Flush-mounted 58 mm diameter, wall mounting

\* **Note:** Adapter frames can be found on page 148.

## Dimensions

## Functional principle – typical wiring diagrams



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# 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	Flush-mounted 58 mm diameter, wall mounting

UC45  
Single and group control unit for switch cabinet mounting



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

### UnitControl UC52

Single and group control unit\*



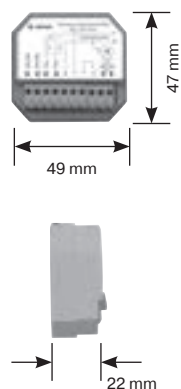
- Slide switch for easy changing between manual and automatic mode
- An additional operator control can be connected
- Enables the programming of two freely selectable intermediate positions
- Blind mode: Exact adjustment of blind laths in touch mode

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	Flush-mounted 58 mm diameter, wall mounting

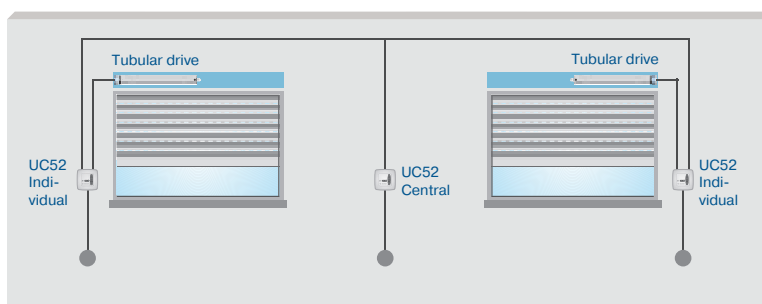
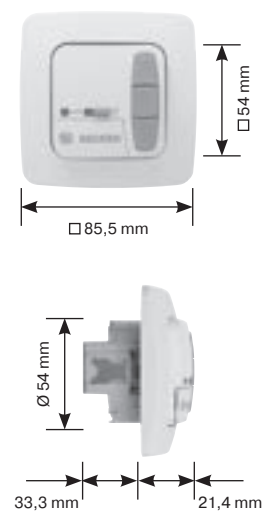
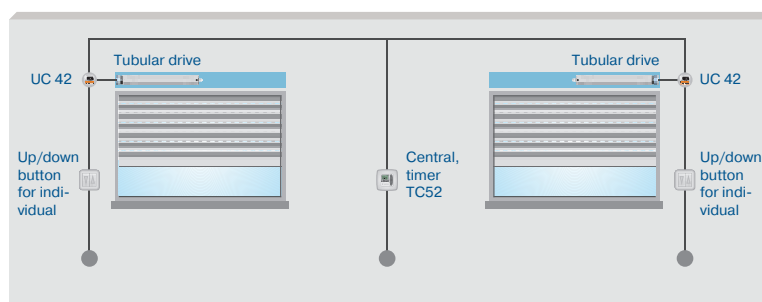


\* **Note:** Adapter frames can be found on page 148.

## Dimensions



## Functional principle – typical wiring diagrams



# 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 $\cos \varphi = 1$
Degree of protection	IP20
Class of protection	II
Permissible ambient temperature	0 to +55 °C
Type of mounting	Flush-mounted 58 mm diameter, wall mounting

## 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

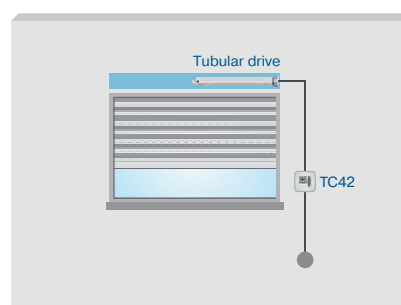
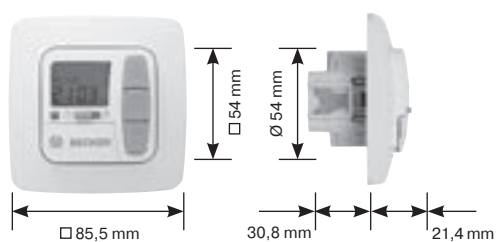
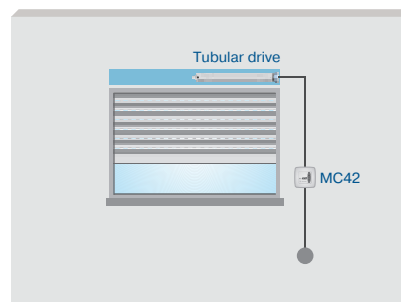
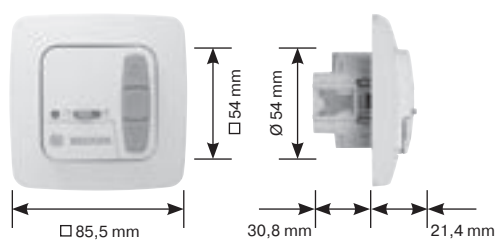
Item no. 4032 000 002 0	
Colour	Alpine white
Rated voltage	230 – 240 V/AC / 50 – 60 Hz
Switching current	5 A / 230 V/AC at $\cos \varphi = 1$
Battery type	CR 2032
Degree of protection	IP20
Class of protection	II
Permissible ambient temperature	0 to +55 °C
Type of mounting	Flush-mounted 58 mm diameter, wall mounting

\* **Note:** Adapter frames can be found on page 148.



## Dimensions

## Functional principle – typical wiring diagrams



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# 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	Flush-mounted 58 mm diameter, wall mounting

- 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)

## Wind and sun protection control unit


### SunWindControl SWC62

Sun/wind control unit\*



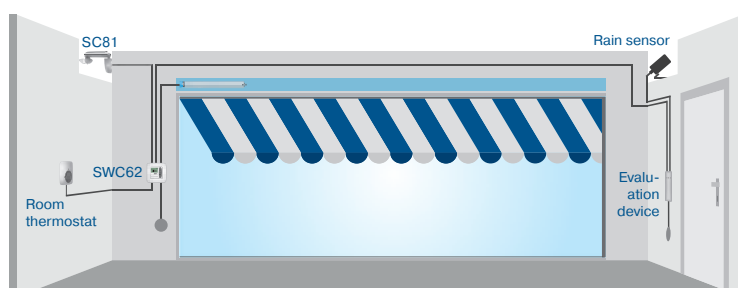
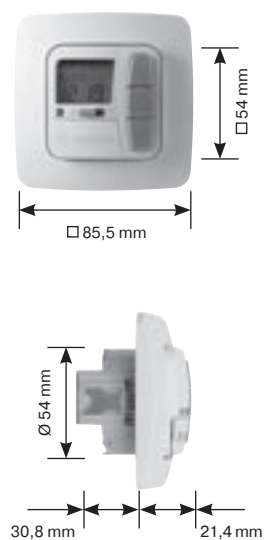
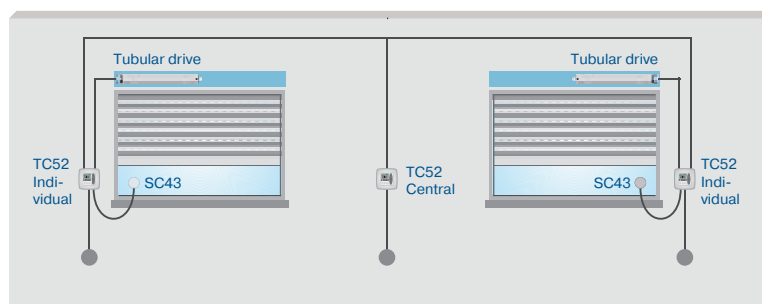
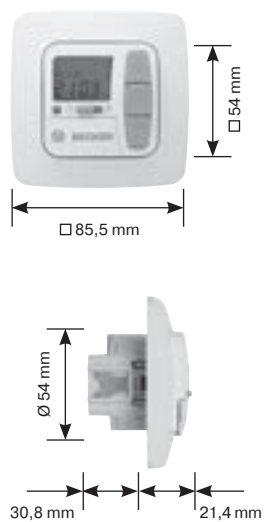
- Intermediate positions can be programmed using UP/STOP/DOWN buttons
- Daily, block and weekly program
- Separate rain/temperature input, can be used as central input
- Date, time and threshold values preset
- Slide switch for easy changing between manual and automatic mode
- Automatic shade time individually 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	Flush-mounted 58 mm diameter, wall mounting

 \* **Note:** Adapter frames can be found on page 148.

## Dimensions

## Functional principle – typical wiring diagrams



# Wired control units

## Sensors

### 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

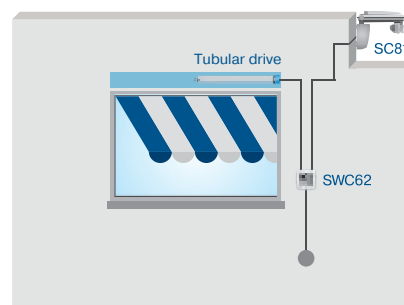
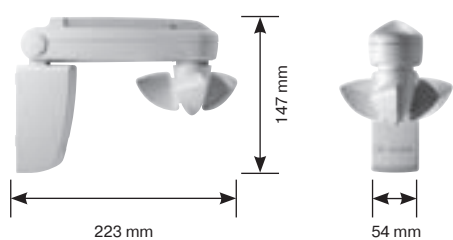
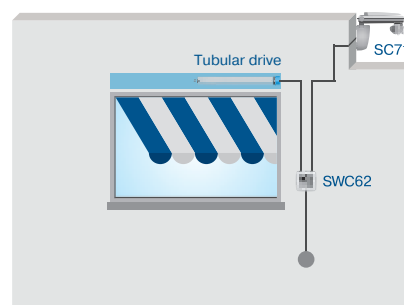
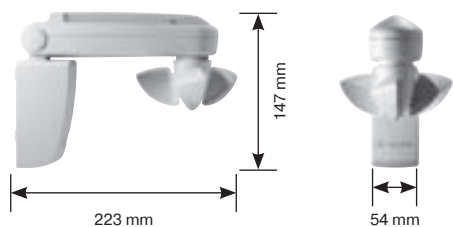


Item no. 4033 000 019 0	
Colour	Light grey
Degree of protection	IP44
Permissible ambient temperature	-25 to +55°C

\* **Note:** Adapter frames can be found on page 148.

## Dimensions

## Functional principle – typical wiring diagrams



CONTROL UNITS

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**BECKER**

# 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

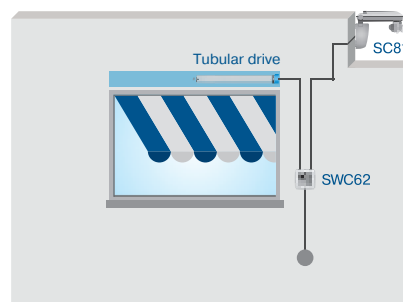
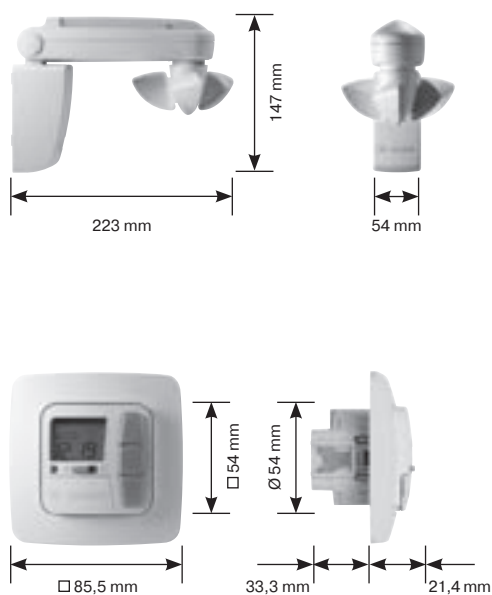


Item no. 4033 000 042 0		
	SWC62	SC81
Colour	White	Light grey
Rated voltage	230 V/AC/50 Hz	–
Switching current	5A/230 – 240 V at cos φ = 1	–
Battery type	CR2032	–
Degree of protection	IP20	IP44
Class of protection	II	–
Permissible ambient temperature	0 to +55 °C	–25 to +55 °C
Type of mounting	Flush-mounted 58 mm diameter	–



## Dimensions

## Functional principle – typical wiring diagrams



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**BECKER**



# Centronic/B-Tronic radio control units

## Radio transmitters

### EasyControl EC711

1-channel wall transmitter\*



- Compatible with Centronic and B-Tronic (KNX-RF radio standard)
- 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
- Not compatible with radio dimmer VarioControl VC220

#### Item no. 4034 000 230 0

Colour	White
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
Type of mounting	Surface-mounted

### EasyControl EC715

5-channel wall transmitter\*



- Compatible with Centronic and B-Tronic (KNX-RF radio standard)
- 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
- Not compatible with radio dimmer VarioControl VC220

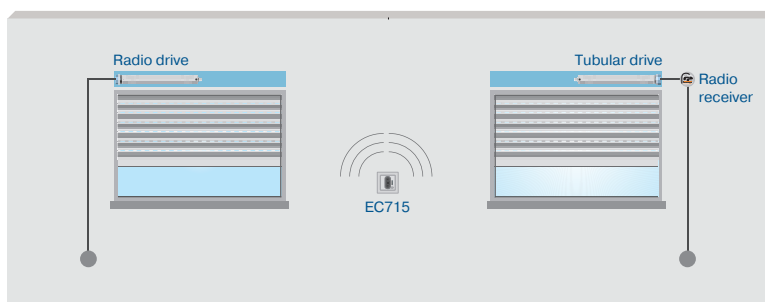
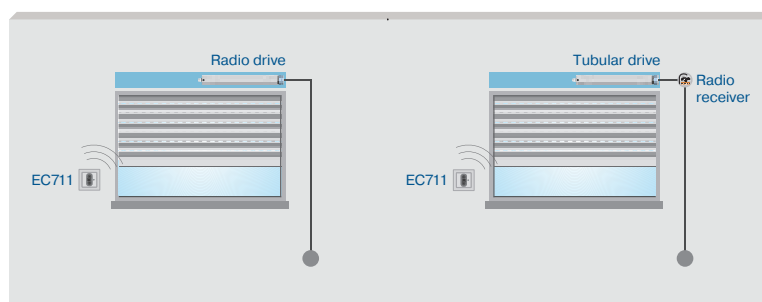
#### Item no. 4034 000 229 0

Colour	White
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
Type of mounting	Surface-mounted

\* **Note:** Adapter frames can be found on page 148.

## Dimensions

## Functional principle – typical wiring diagrams





# Centronic/B-Tronic radio control units

## Radio transmitters

### MemoryControl MC611

1-channel wall transmitter with memory function\*



- Compatible with Centronic and B-Tronic (KNX-RF radio standard)
- 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
- Not compatible with radio dimmer VarioControl VC220

#### Item no. 4034 000 231 0

Colour	White
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
Type of mounting	Surface-mounted

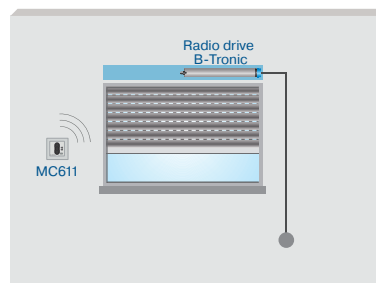
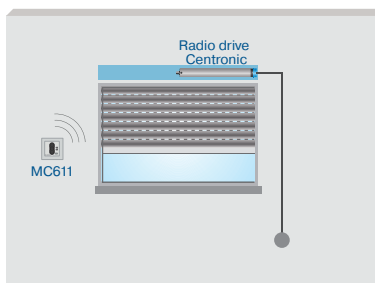
\* **Note:** Adapter frames can be found on page 148.

## Dimensions



□ 55 mm

## Functional principle – typical wiring diagrams





# Centronic radio control units

## Radio transmitters

### EasyControl EC411

1-channel wall transmitter\*



- Enables the programming of two freely selectable intermediate positions
- Simple wall mounting
- Can also be used as hand-held device
- 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 or central control unit

#### Item no. 4034 000 040 0

Colour	White
Rated voltage	3 V/DC
Battery type	CR2430
Degree of protection	IP20
Permissible ambient temperature	-10 to +55 °C
Radio frequency	868.3 MHz
Type of mounting	Surface-mounted

### MemoControl MC415

5-channel wall transmitter with memory function\*



- Enables the programming of two freely selectable intermediate positions
- Simple wall mounting
- Can also be used as hand-held device
- 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 or central control unit
- 5 channels with LED display
- 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 000 041 0

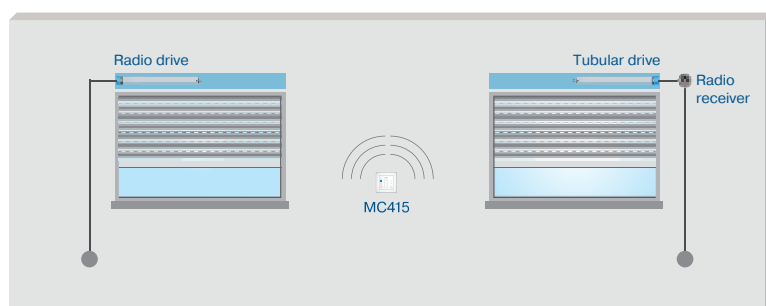
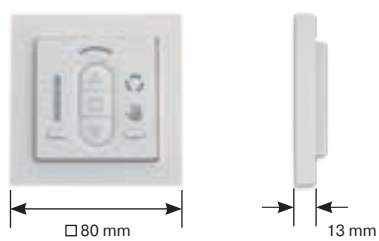
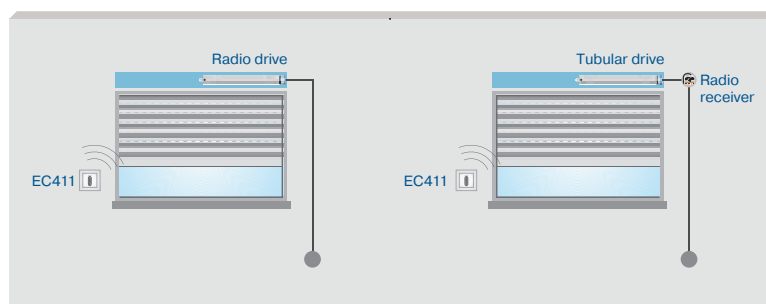
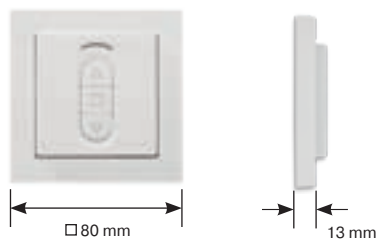
Colour	White
Rated voltage	3 V/DC
Battery type	CR2430
Degree of protection	IP20
Permissible ambient temperature	-10 to +55 °C
Radio frequency	868.3 MHz
Type of mounting	Surface-mounted

\* **Note:** Adapter frames can be found on page 148.



## Dimensions

## Functional principle – typical wiring diagrams



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# Centronic radio control units

## Radio transmitters

### 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



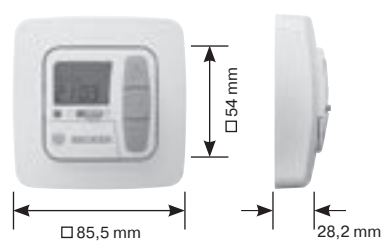
- SC43 light sensor
- Cable can be shortened

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

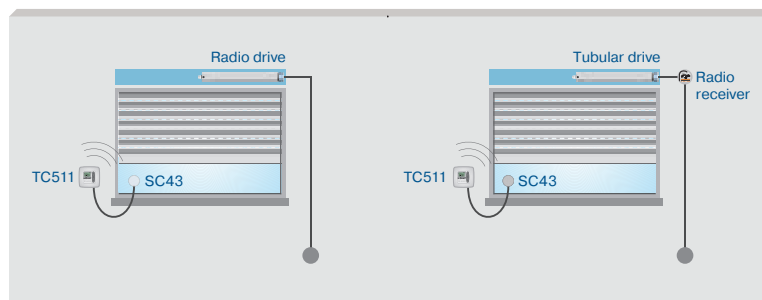


\* **Note:** Adapter frames can be found on page 148.

## Dimensions



## Functional principle – typical wiring diagrams





# 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

### EasyControl EC145-II

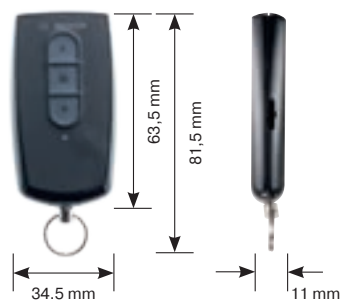
5-channel hand-held transmitter



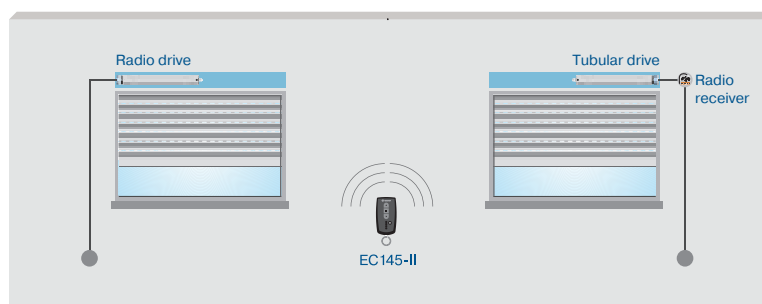
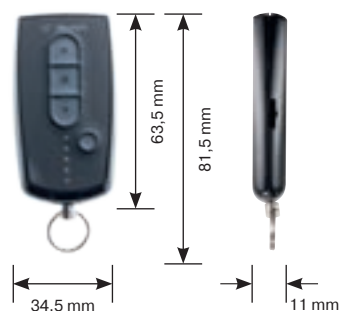
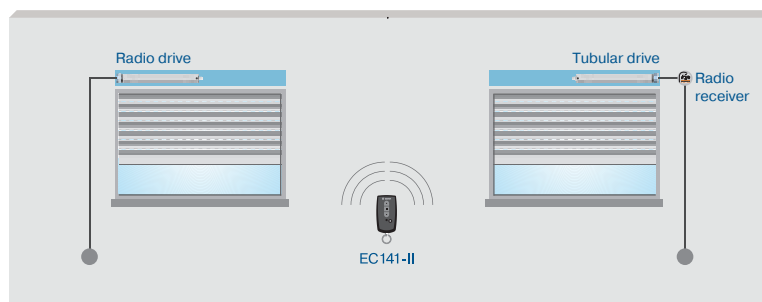
- 5 channels with LED display
- Enables the programming of two freely selectable intermediate positions
- Single, group or central control unit
- Metal ring for attachment to key ring

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

## Dimensions



## Functional principle – typical wiring diagrams





# 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

### 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

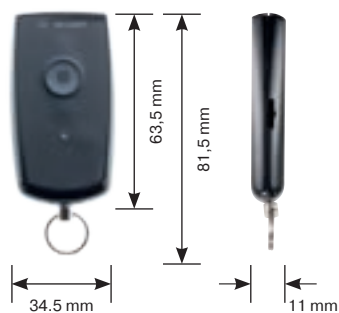
#### Item no. 4034 000 201 0 (white)

#### Item no. 4034 000 201 1 (black)

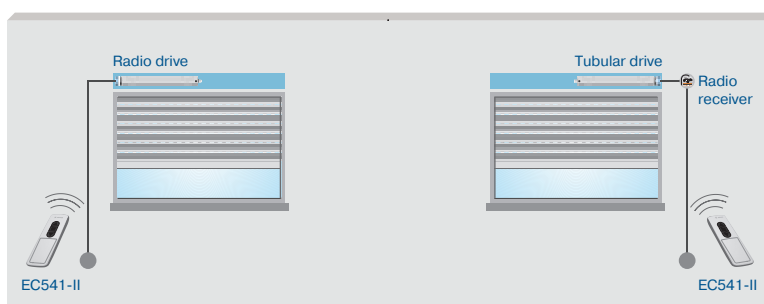
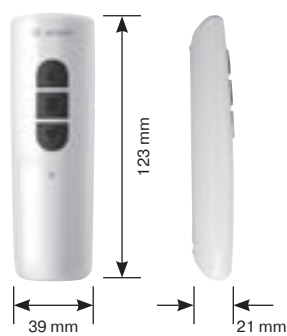
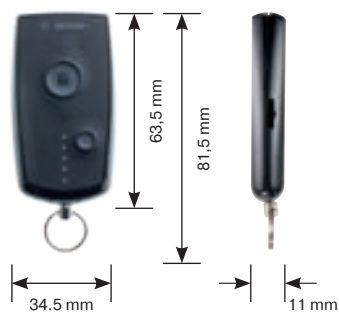
Colour	White / Black
Rated voltage	3 V/DC
Battery type	CR 2430
Degree of protection	IP20
Permissible ambient temperature	–10 to +55°C
Radio frequency	868.3 MHz



## Dimensions



## Functional principle – typical wiring diagrams



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# 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

### 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



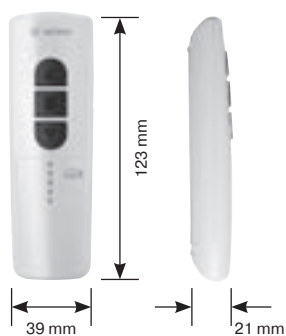
- Easy programming of two switching times (daily repetition)
- Switching times not lost when battery changed
- Slide switch for easy changing between manual and automatic mode
- Enables the programming of two freely selectable intermediate positions
- Wall bracket with rear labelling panel
- Single or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

#### Item no. 4034 000 204 0 (white)

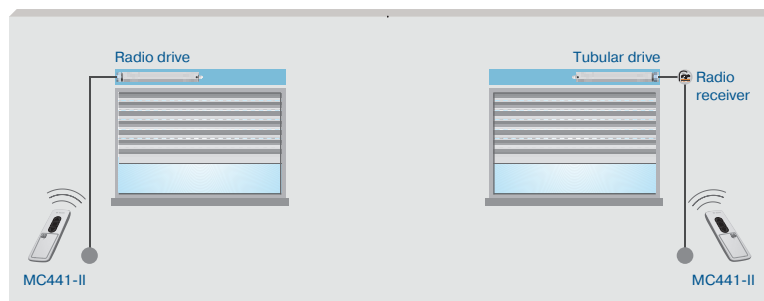
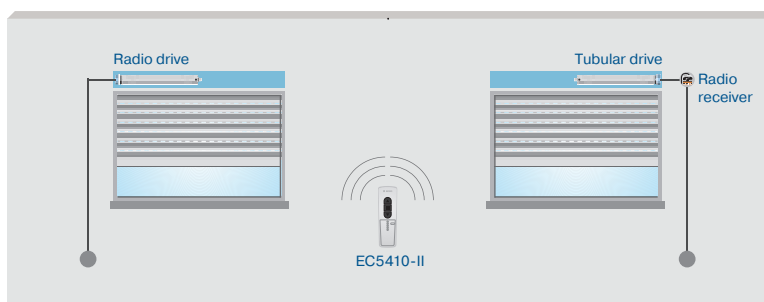
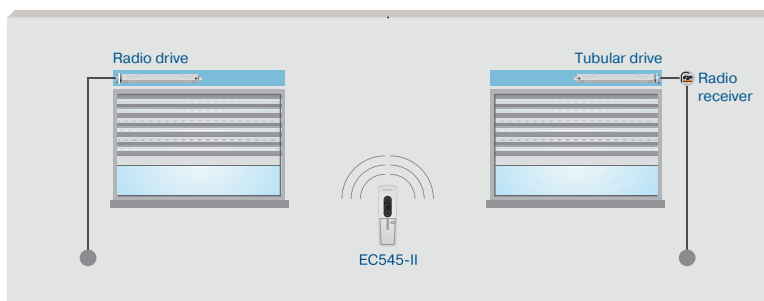
#### Item no. 4034 000 204 1 (black)

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

## Dimensions



## Functional principle – typical wiring diagrams



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# Centronic radio control units

## Radio transmitters

### TimeControl TC445-II

5-channel hand-held transmitter with 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
- Wall bracket with rear labelling panel
- Single, group or central control unit

Item no. 4034 000 206 0 (white)

Item no. 4034 000 206 1 (black)

Colour	White / Black
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

### TimeControl TC4410-II

10-channel hand-held transmitter with channel-specific timers



Functions as the TC445-II, but also includes:

- Ten individually programmable channels for ten separate receivers or ten receiver groups
- Slide switch allows automatic mode to be activated/deactivated easily for individual channels or all channels simultaneously

Item no. 4034 000 207 0 (white)

Item no. 4034 000 207 1 (black)

Colour	White / Black
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

### EasyControl EC513

3-channel code button



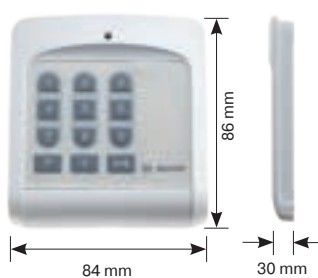
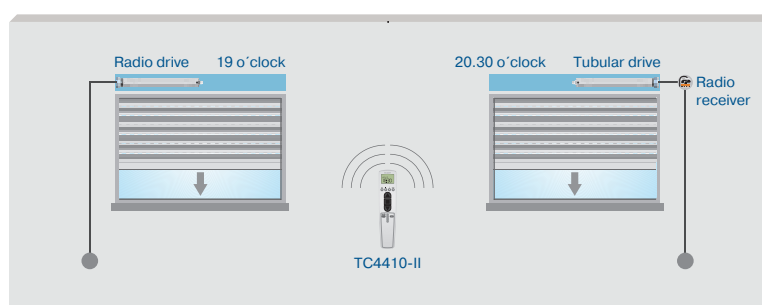
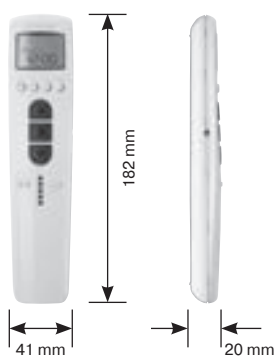
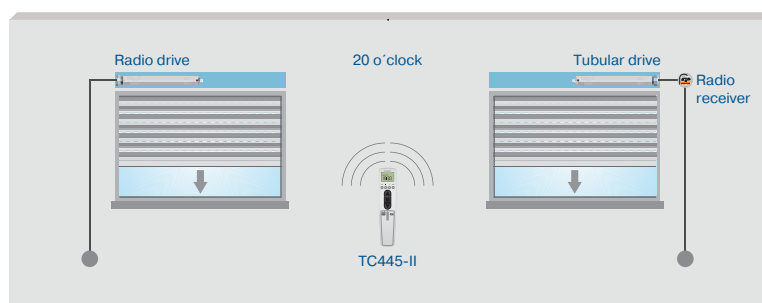
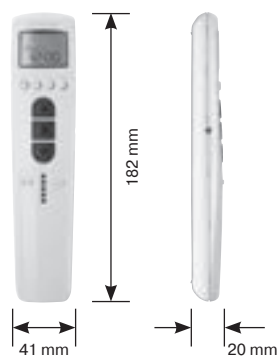
- Drive commands are only performed once the correct opening code has been entered
- Simple wall mounting
- Individual code assignment possible
- Suitable for outdoor assembly
- Single or central control unit
- 3 channels can be controlled individually

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

## Functional principle – typical wiring diagrams





# Centronic radio control units

## Radio transmitters

### VarioControl VC421

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 000 009 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	Flush-mounted in switch box in 58 mm diameter
Radio frequency	868.3 MHz

### 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

### SunWindControl SWC245-II

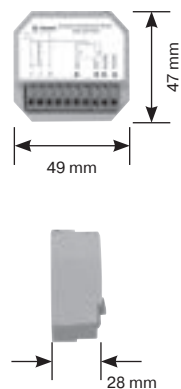
5-channel hand-held transmitter with  
wind threshold value setting



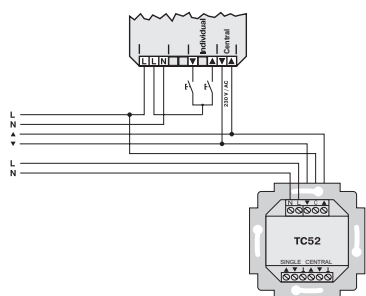
- 5 channels with LED display
- Convenient setting of the wind threshold value at the transmitter
- Enables the programming of two freely selectable intermediate positions
- Wall bracket with rear labelling panel
- Single or central control unit

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

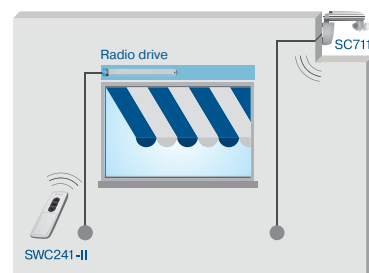
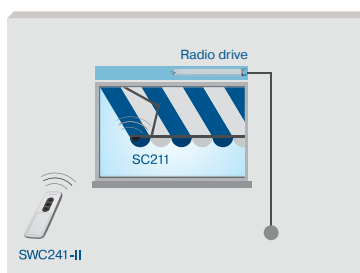
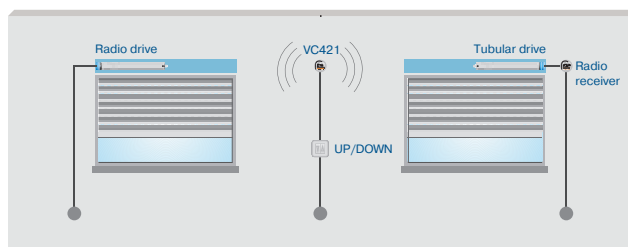
Dimensions



Connecting diagram



Functional principle – typical wiring diagrams



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# 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

### 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



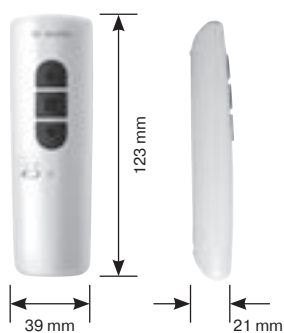
- 5 channels with LED display
- Convenient setting of sun and wind threshold values at the transmitter
- Slide switch for easy changing between manual and automatic mode
- Enables the programming of two freely selectable intermediate positions
- Wall bracket with rear labelling panel
- Single or central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

#### Item no. 4033 000 214 0 (white)

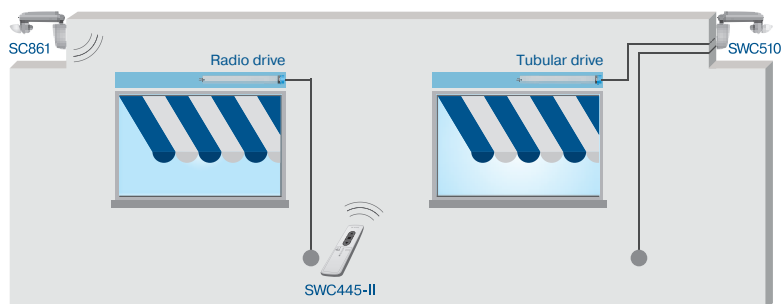
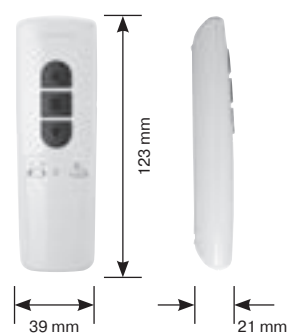
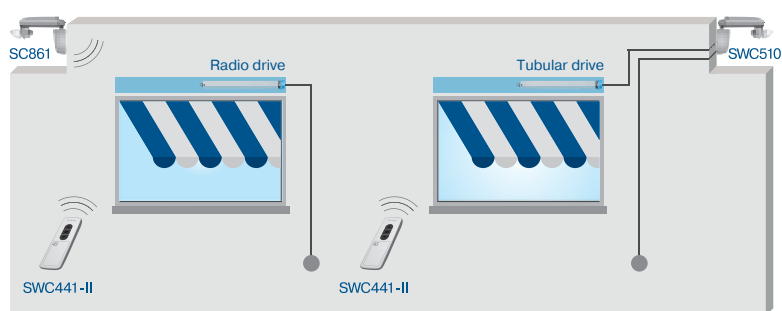
#### Item no. 4033 000 214 1 (black)

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

## Dimensions



## Functional principle – typical wiring diagrams



CONTROL UNITS

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# Centronic radio control units

## Radio transmitters

### SunWindControl SWC745-II

5-channel hand-held transmitter with channel-specific threshold value setting and display



- Date, time and threshold values preset
- Slide switch for easy changing between manual and automatic mode
- Automatic shade time, and threshold values can be adjusted separately for each channel
- Automatic summer/winter time adjustment
- Enables the programming of two freely selectable intermediate positions per channel
- Wall bracket with rear labelling panel
- Single, group or central control unit

Item no. 4033 000 211 0 (white)

Item no. 4033 000 211 1 (black)

Colour	White / Black
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

## 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 $\cos \varphi = 1$
Degree of protection	IP20
Class of protection	II
Permissible ambient temperature	0 to +55 °C
Type of mounting	Flush-mounted 58 mm diameter, wall mounting
Radio frequency	868.3 MHz

### VarioControl VC180-II

Radio socket



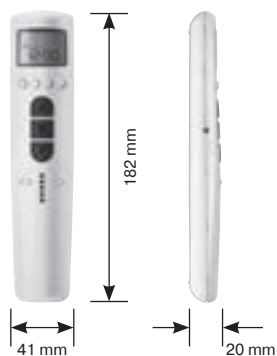
- Switches various different 230 V plug-in devices ON/OFF
- Enables reduction of standby current consumption
- Timed ON/OFF switching of powered devices
- Enables switching between scenes
- Can be programmed to recognise up to 15 Centronic transmitters
- Control button on the device

Item no. 4034 000 222 0

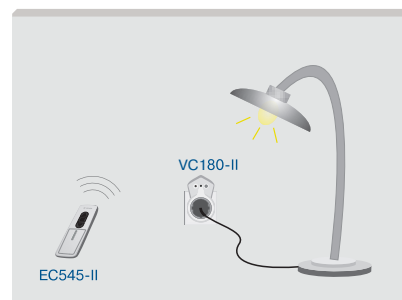
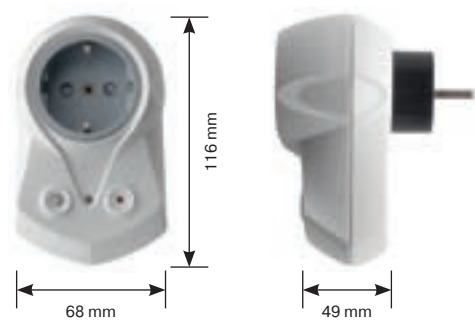
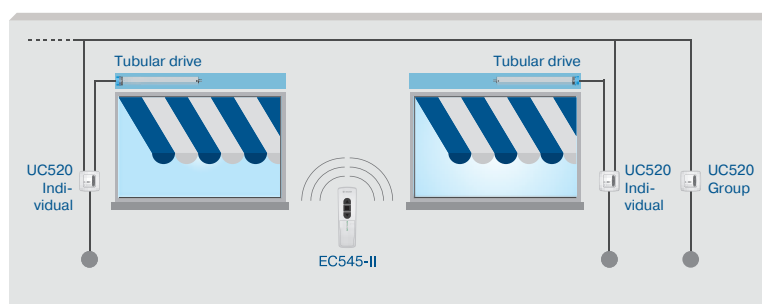
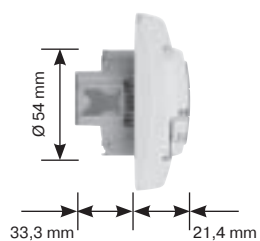
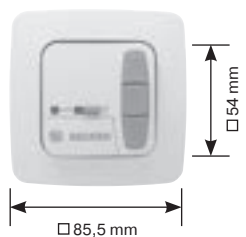
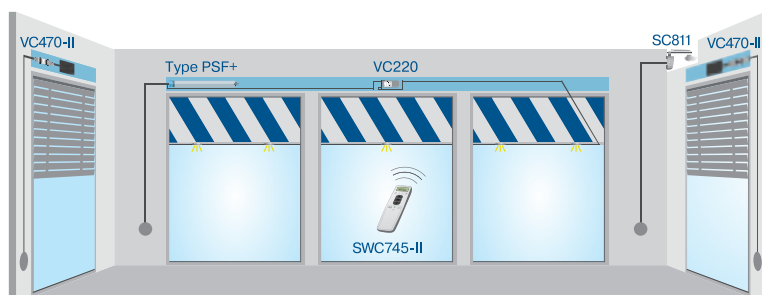
Colour	Alpine white
Rated voltage	230 – 240 V/AC / 50 Hz
Powered unit connection	I <sub>max</sub> . 16 A / 230 – 240 V $\cos \varphi = 1$
Degree of protection	IP20
Permissible ambient temperature	-20 to +35 °C
Radio frequency	868.3 MHz

\* **Note:** Adapter frames can be found on page 148.

## Dimensions



## Functional principle – typical wiring diagrams



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# Centronic radio control units

## Radio receivers

### 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

### 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
- Not compatible with wall transmitters EC711, EC715 and MC611

#### 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

### VarioControl VC220h

Radio switch for heaters



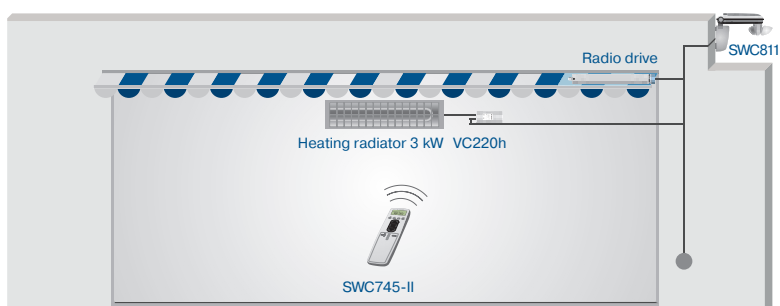
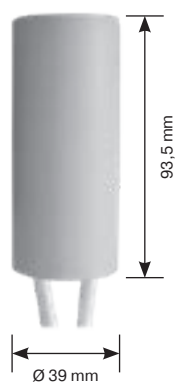
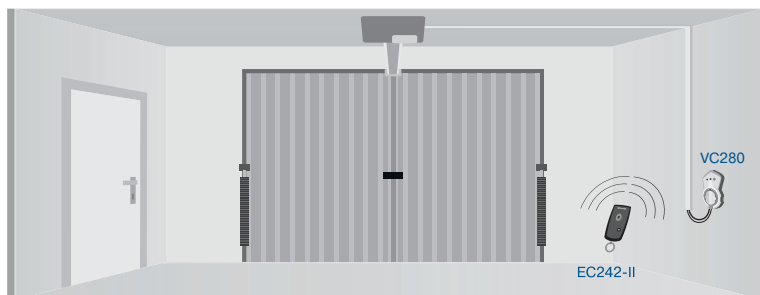
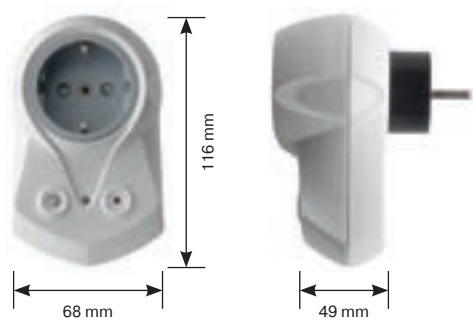
- Switching heaters up to 3.000 W
- Time-controlled switch-off of the heating function in two stages at 60/120 min.
- Can be programmed to recognise up to 16 Centronic transmitters

#### 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

## Dimensions

## Functional principle – typical wiring diagrams



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# 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)

### 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 $\cos \varphi = 1$
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

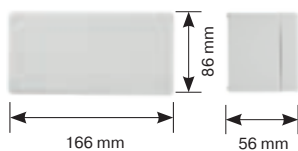


## Dimensions

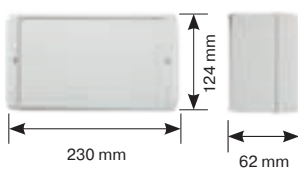
## Connecting diagram

## Functional principle – typical wiring diagrams

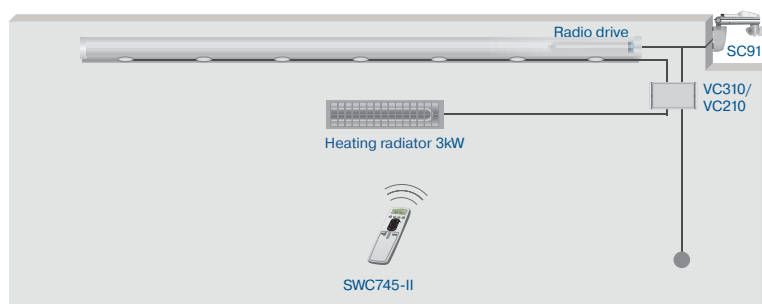
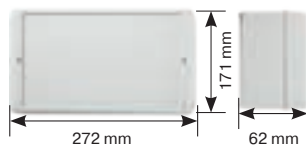
VC210



VC310-12/24-60



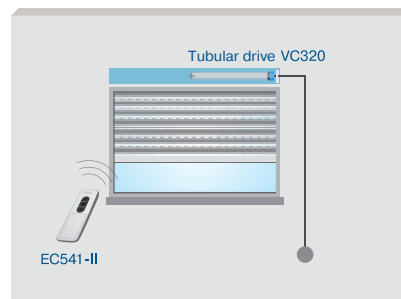
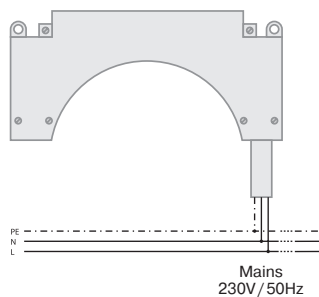
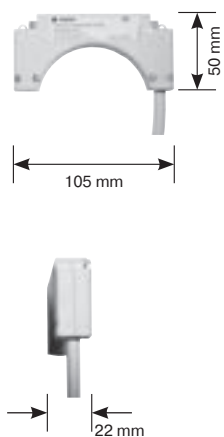
VC310-24-120



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# Centronic radio control units

## Radio receivers

### VarioControl VC420-II

Flush-mounted radio receiver



- Any kind of button can be connected
- Can be used as a lighting control unit
- Blind mode: Exact adjustment of blind laths in touch mode
- Enables the programming of two freely selectable intermediate positions
- Can be programmed to recognise up to 16 Centronic transmitters
- Compatible with the SC211 awning movement sensor

#### Item no. 4034 000 209 0

Rated voltage	230 – 240 V/AC/50 – 60 Hz
Switching current	3A/230 V at $\cos \varphi = 1$
Degree of protection	IP20
Permissible ambient temperature	–25 to +55°C
Type of mounting	Flush-mounted in switch box in 58 mm diameter
Radio frequency	868.3 MHz

VarioControl VC410-II  
Surface-mounted radio receiver

#### Item no. 4034 000 213 0

### VarioControl VC520

Floating radio receiver



- Potential-free switching contact
- Blind mode: Exact adjustment of blind laths in touch mode
- Enables the programming of two freely selectable intermediate positions
- Can be programmed to recognise up to 16 Centronic transmitters

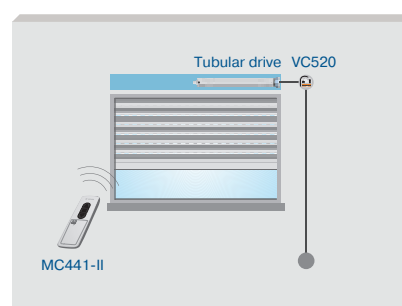
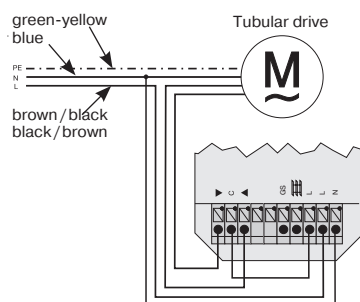
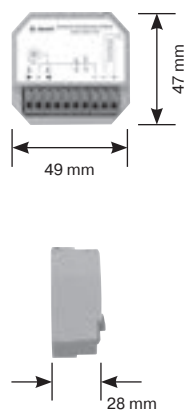
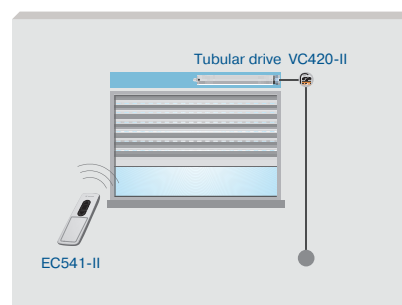
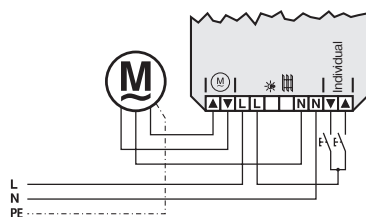
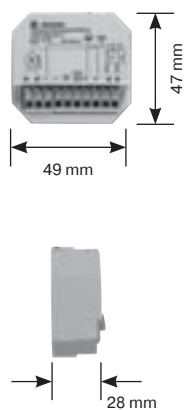
#### Item no. 4034 000 011 0

Rated voltage	230 – 240 V/AC/50 – 60 Hz
Switching current	3 A/230 V at $\cos \varphi = 1$
Degree of protection	IP20
Class of protection	II
Permissible ambient temperature	0 to +55°C
Type of mounting	Flush-mounted in switch box in 58 mm diameter
Radio frequency	868.3 MHz

## Dimensions

## Connecting diagram

## Functional principle – typical wiring diagrams



# 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. 4995 800 270 1	
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)	327x50x50 mm

## Radio sensors

### SensorControl SC431-II

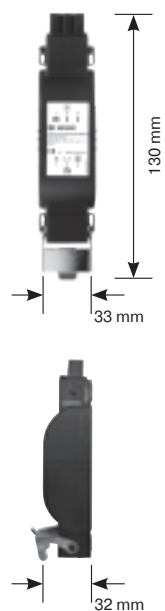
Radio light sensor



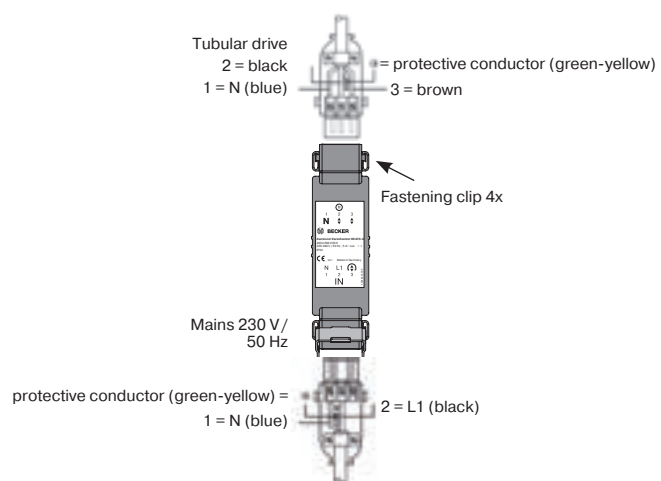
- Shade and twilight function
- Integrated glass breakage sensor
- Combined UP/STOP/DOWN travel button
- All operator controls can be accessed without opening the housing
- Easy mounting on the window pane

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

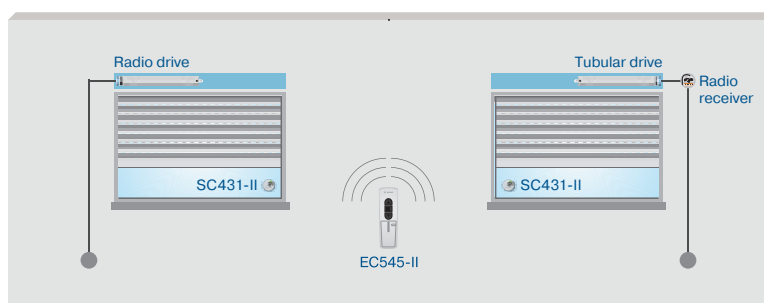
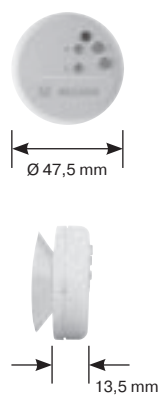
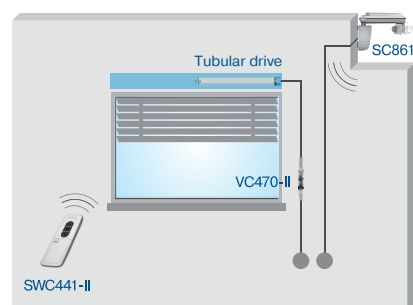
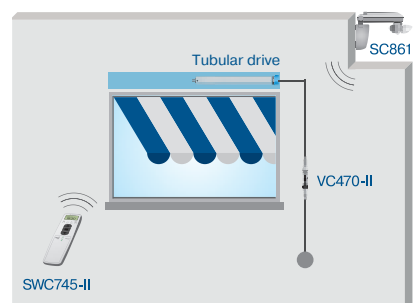
## Dimensions



## Connecting diagram



## Functional principle – typical wiring diagrams





# Centronic radio control units

## Radio sensors

### 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

### 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 $\cos \varphi = 1$
Degree of protection	IP44
Permissible ambient temperature	-25 to +55 °C
Radio frequency	868.3 MHz

**Note:**

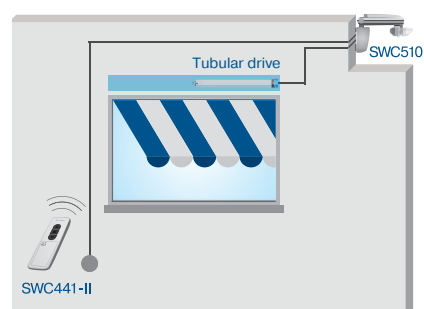
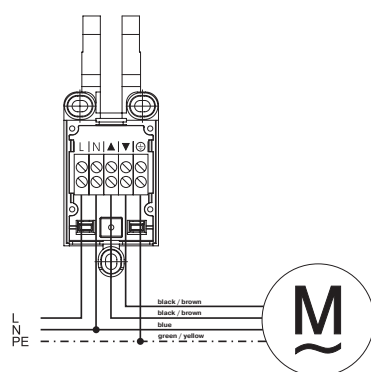
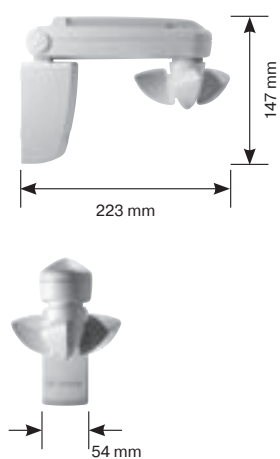
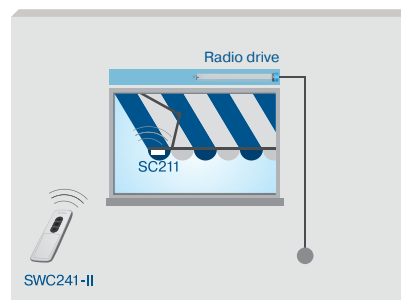
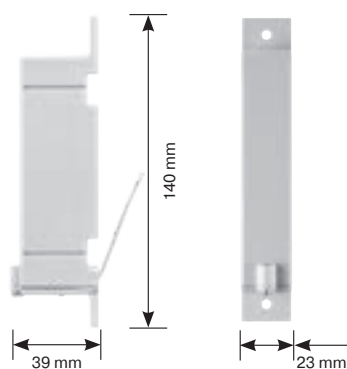
\* The SC211-II is intended solely for the operation of an open, half-closed (semi-cassette), or fully closed (cassette) articulated-arm awning.

\*\* Installation brackets can be found on Page 149.

## Dimensions

## Connecting diagram

## Functional principle – typical wiring diagrams



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# Centronic radio control units

## Radio sensors

### 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

### 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

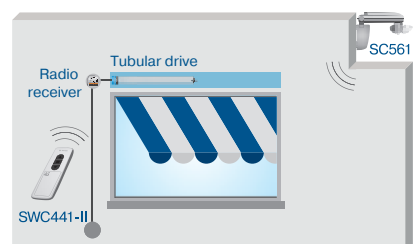
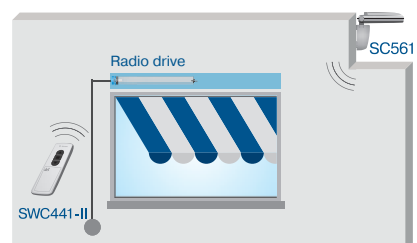
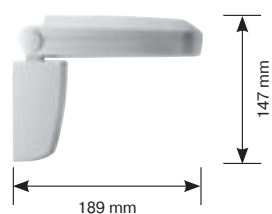
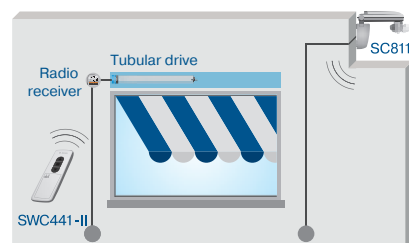
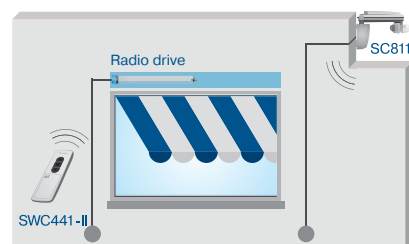
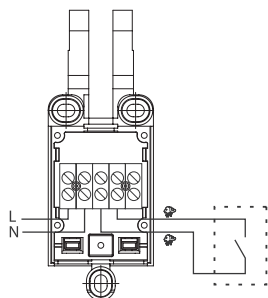
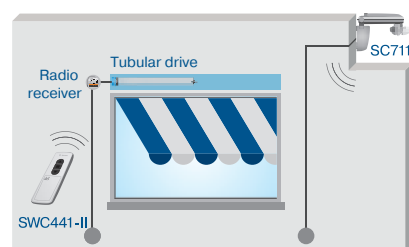
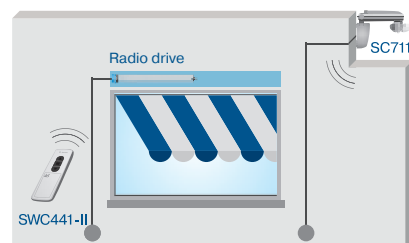
Colour	Light grey
Degree of protection	IP44
Permissible ambient temperature	-25 to +55°C
Radio frequency	868.3 MHz

\* **Note:** Installation brackets can be found on Page 149.

## Dimensions

## Connecting diagram

## Functional principle – typical wiring diagrams





# Centronic radio control units

## Radio sensors

### 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

### 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

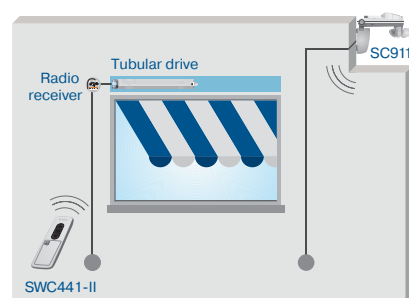
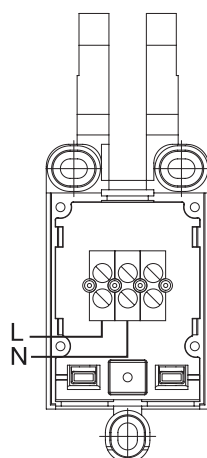
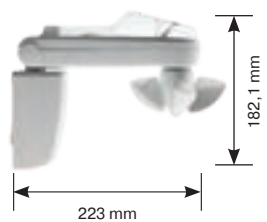
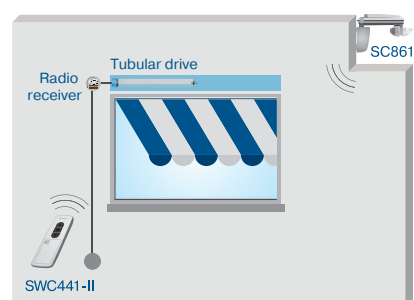
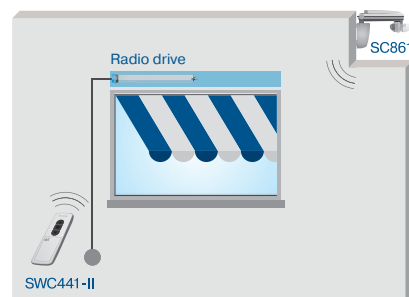
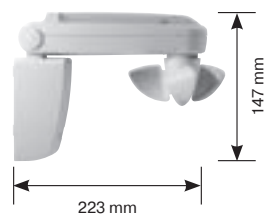
Colour	Light grey
Degree of protection	IP44
Permissible ambient temperature	-25 to +55°C
Radio frequency	868.3 MHz

\* **Note:** Installation brackets can be found on Page 149.

## Dimensions

## Connecting diagram

## Functional principle – typical wiring diagrams



CONTROL UNITS

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**BECKER**



# Centronic radio control units

## Radio sets

### Roller shutter Vario set RVS241-II

Hand-held transmitter with radio receiver



- Programming and setting up of groups possible without having to access the receiver
- Any kind of button can be connected
- Can also be used as lighting control unit
- Blind mode: Exact adjustment of blind laths in touch mode
- Enables the programming of two freely selectable intermediate positions

#### Item no. 4034 000 208 0

	EC541-II	VC410-II
Colour	White	Light grey
Rated voltage	3 V/DC	230 – 240 V/AC / 50 Hz
Switching current	3A / 230 – 240 V at $\cos \varphi = 1$	3A / 230 – 240 V at $\cos \varphi = 1$
Battery type	CR2430	CR2430
Degree of protection	IP20	IP55
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	Surface-mounted
Radio frequency	868.3 MHz	868.3 MHz
Cable diameter	–	Ø 3 – 12 mm

### Sun Vario set 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

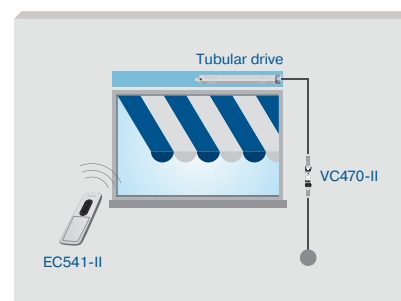
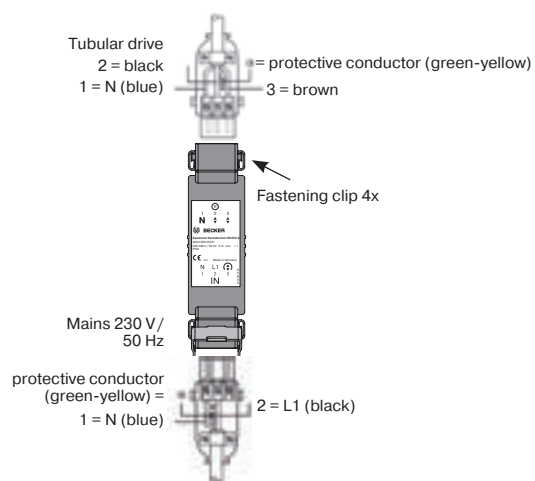
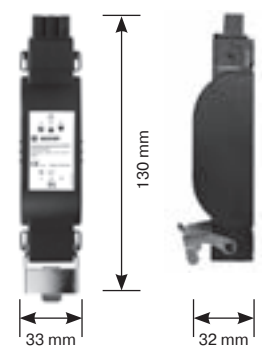
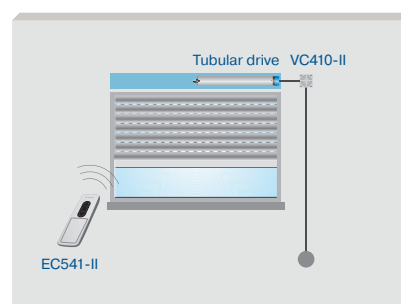
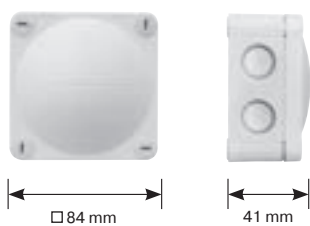
#### Item no. 4033 000 212 0

	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 $\cos \varphi = 1$
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 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 $\cos \varphi = 1$
Degree of protection	IP20	IP44
Permissible ambient temperature	–10 to +55 °C	–25 to +55 °C
Radio frequency	868.3 MHz	868.3 MHz

### 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 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

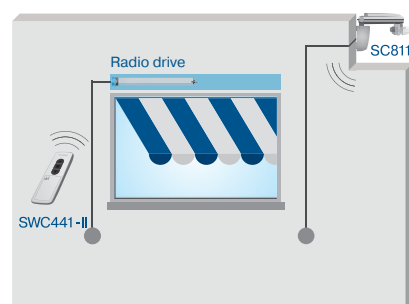
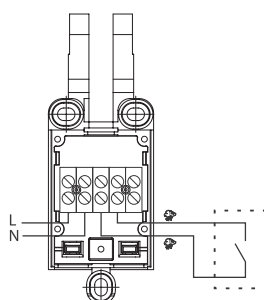
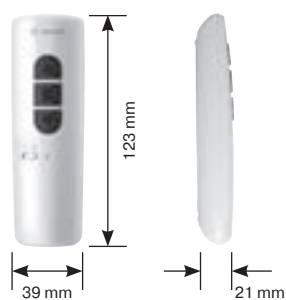
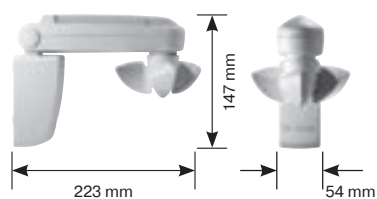
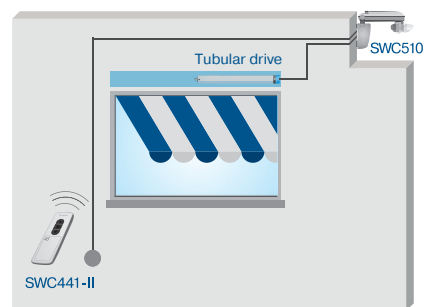
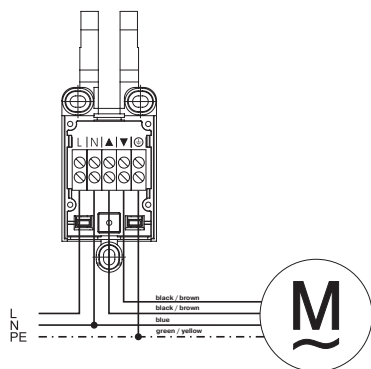
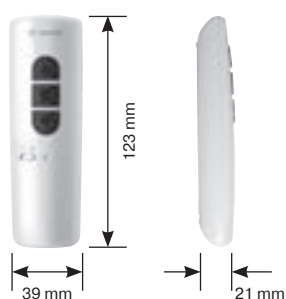
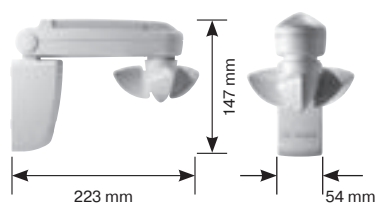
Item no. 4033 000 208 0		
	SWC441-II	SC811
Colour	White	Light grey
Rated voltage	3 V/DC	–
Battery type	CR 2430	–
Degree of protection	IP20	IP44
Permissible ambient temperature	–10 to +55 °C	–25 to +55 °C
Radio frequency	868.3 MHz	868.3 MHz



## Dimensions

## Connecting diagram

## Functional principle – typical wiring diagrams



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# 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 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

### 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 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

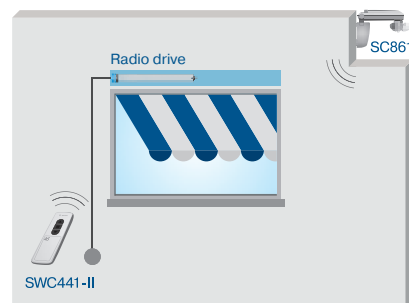
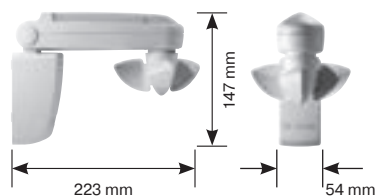
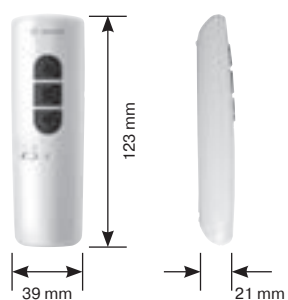
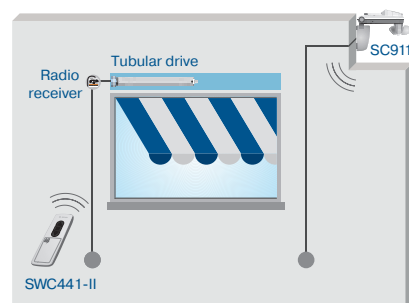
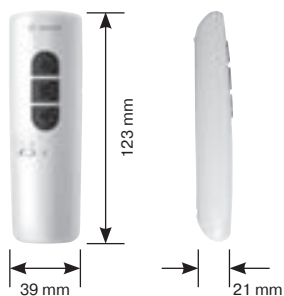
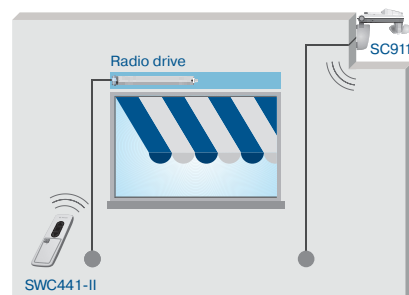
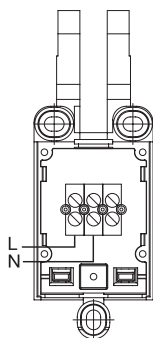
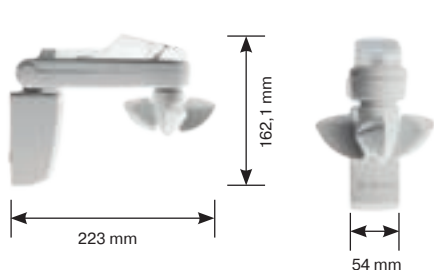
Item no. 4033 000 209 0

	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

## Dimensions

## Connecting diagram

## Functional principle – typical wiring diagrams



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# 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
- Outdoor light can be connected
- 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)	155 x 130 x 52 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)	155 x 130 x 50 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



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# CentronicPLUS radio control units

## EasyControl EC541 PLUS, EC548 PLUS, EC5416 PLUS

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

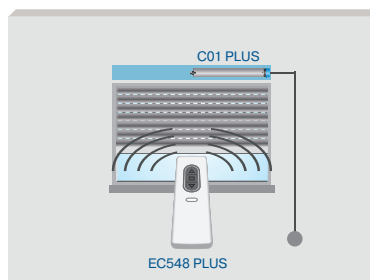


- Compatible with CentronicPLUS radio system
- Available as 1-, 8- and 16-channel hand-held transmitter
- High-security, encrypted radio transmission
- Multicolour display (10-segment) for simple status feedback, setting and start-up
- Optical operating feedback
- Simple group setup and automatically 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

## Functional principle – typical wiring diagrams







# Central radio control units

## CentralControl CC41

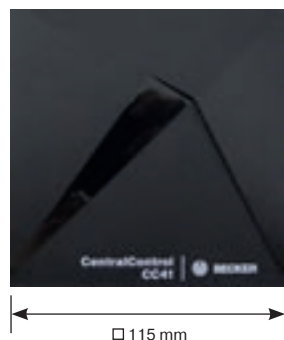


- Control of Centronic, CentronicPLUS and B-Tronic radio-controlled products
- Configuration via free Becker CentralControl app
- Operation via smartphone or tablet
- Organisation of receivers, groups and scenarios, incl. time control and holiday function
- Voice control using Amazon Alexa

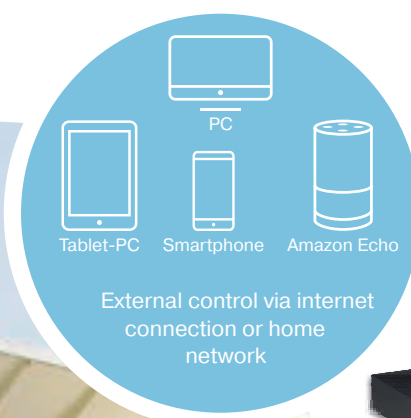
### Item no. 4035 200 053 0

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

## Dimensions



Can be complemented with KNX products...



CentralControl:  
The central remote control for your smart home

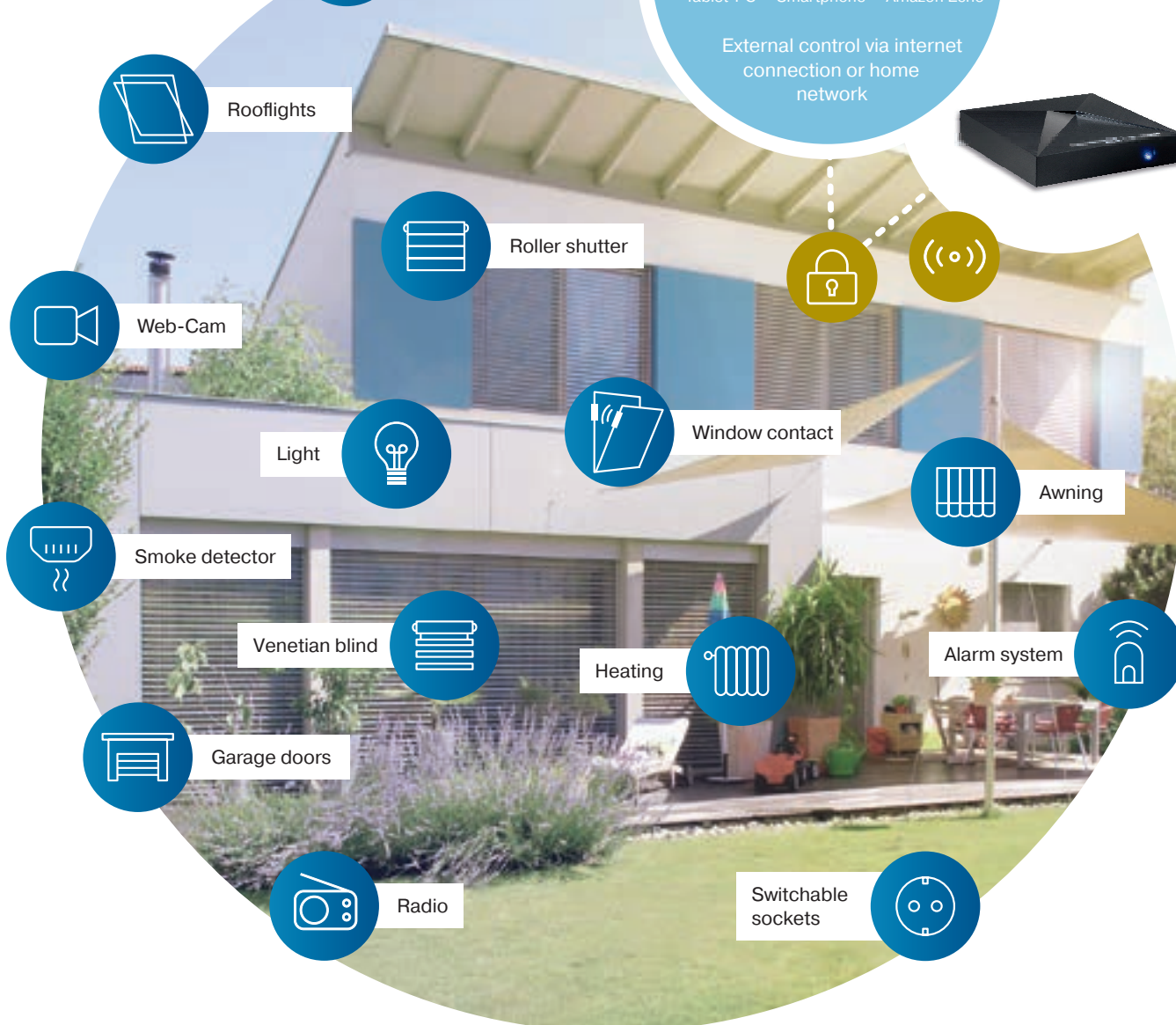


CONTROL UNITS

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MECHANICAL ACCESSORIES

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**BECKER**



# B-Tronic radio control units

## EasyControl EC5401B

1-channel hand-held transmitter



- 3-colour LED for feedback indication of the operated receivers
- Enables the programming of two freely selectable intermediate positions
- Button for easy changing between manual and automatic mode
- Can be programmed to recognise up to 30 receivers
- Single, group or central control unit
- Compatible with the KNX-RF radio standard
- Including wall bracket

### Item no. 4035 000 001 0 (white)

### Item no. 4035 000 001 1 (black)

Colour	White / Black
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

## EasyControl EC5415B

15-channel hand-held transmitter



- Large illuminated display
- 15 channels
- 3-colour LED for feedback indication of the operated receivers
- Enables the programming of two freely selectable intermediate positions
- Button for easy changing between manual and automatic mode
- Pictogram indication of the receiver type (e. g. roller shutter, light)
- Button for easy setup and retrieval of up to four scenarios
- Can be programmed to recognise up to 45 receivers
- Single, group or central control unit
- Compatible with the KNX-RF radio standard
- Including wall bracket

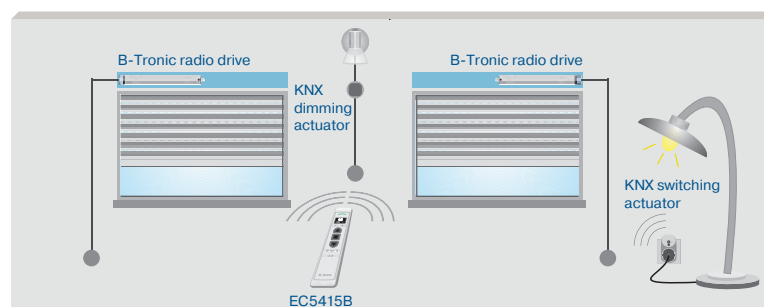
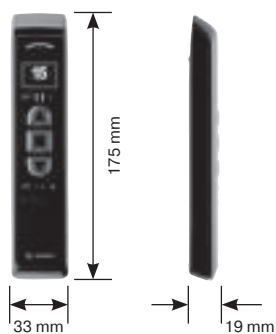
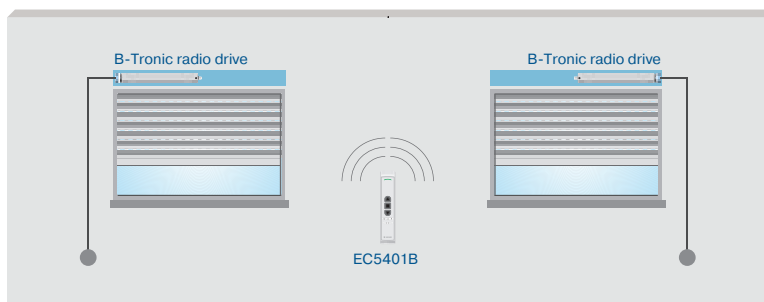
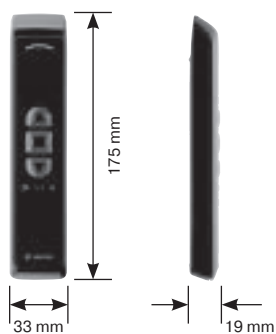
### Item no. 4035 000 002 0 (white)

### Item no. 4035 000 002 1 (black)

Colour	White / Black
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

## Dimensions

## Functional principle – typical wiring diagrams





# B-Tronic radio control units

## Room Temperature Control

### RTC3100B

Heating actuator



- Easy mounting
- Compatible with the KNX-RF radio standard
- Button for easy on-site operation
- Single, group and central control
- The current values and settings are fed back to the central control unit
- Open window detection
- Large, easy-to-read display
- Can be switched between summer and winter modes
- Can be linked into scenarios
- Included adapters enable adaptation to many connections: Heimeier, Junkers, Landys + Gyr, MNG, Honeywell, Braukmann, Danfoss RAV, RA, RAVL, Comap D805, Oventrop Typ A, AV6, all valves with M30 x 1.5 thread

#### Item no. 4035 000 004 0

Colour	White
Rated voltage	3 V/DC
Degree of protection	IP20
Battery type	LR 6 (AA)
Permissible ambient temperature	0 to +50 °C
Radio frequency	868.3 MHz
Fluid temperature	max. 100 °C
Valve stroke	max. 4.5 mm

## VarioControl VC4200B

Flush-mounted radio receiver



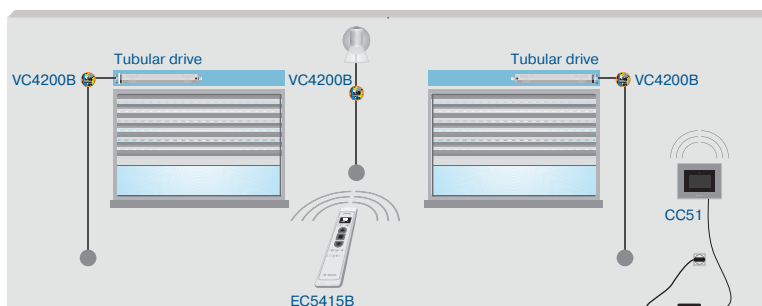
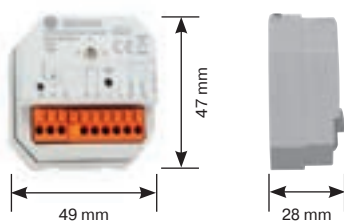
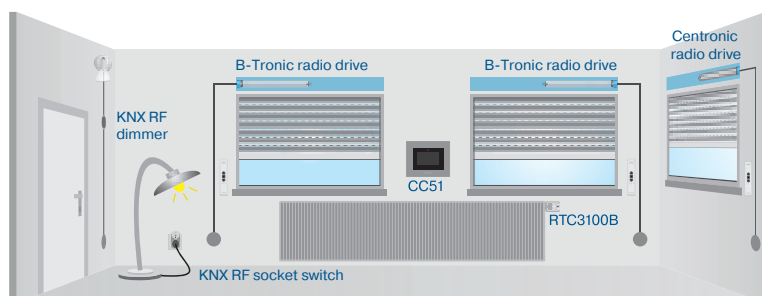
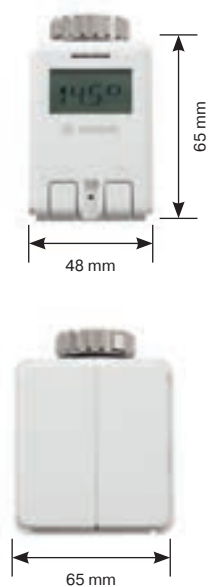
- For connecting roller shutter drives
- Can also be used as a lighting control unit
- Integrated staircase lighting function
- Can also be used for operation of venetian blinds
- Feedback of position or switching status
- In roller shutter mode: 2 freely selectable intermediate positions can be programmed
- In blind mode: Two exact intermediate positions can be programmed with reversing function
- Can also be used potential-free
- Any UP/DOWN button can be connected for drive control, and any single button for light impulse control
- Integrated memory-time function

#### Item no. 4035 000 009 0

Rated voltage	230 – 240 V/AC/50 – 60 Hz
Switching current	3 A/110 V at $\cos \varphi = 1$
Degree of protection	IP20
Class of protection	II
Permissible ambient temperature	0 to +55 °C
Type of mounting	Flush-mounted in switch box in 58 mm diameter
Radio frequency	868.3 MHz

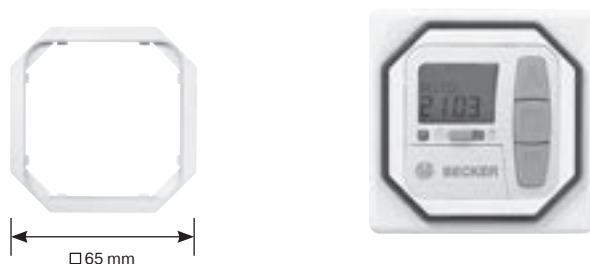
## Dimensions

## Functional principle – typical wiring diagrams



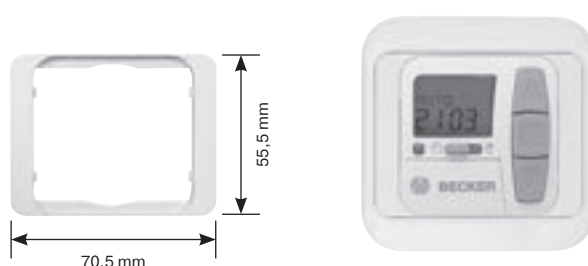
# Adapter frame, Alpine white

Merten Octocolor



Item no. 4030 200 009 0

Busch-Jaeger alpha nea



Item no. 4030 200 010 0

Gira S-Color



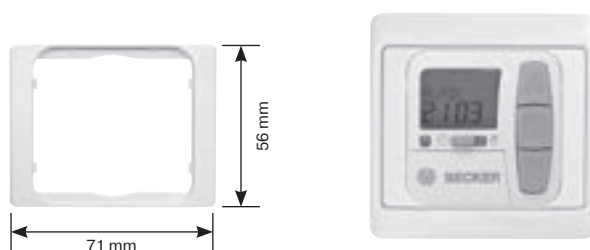
Item no. 4030 200 011 0

Gira flat switch



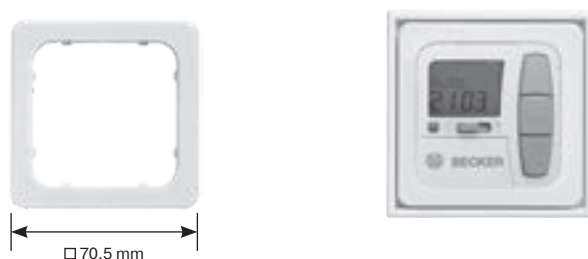
Item no. 4030 200 012 0

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



□ 67 mm



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



□ 56 mm



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 with  
VC420-II and VC4200B



Item no. 4827 155 004 0

Multi cover frame, 2-way

Item no. 4030 200 023 0

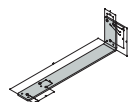
Multi cover frame, 3-way

Item no. 4030 200 024 0

Varta battery button cell CR2032

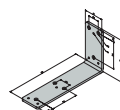
Item no. 4032 200 010 0

Mounting bracket SC911



Item no. 4033 300 057 0

Dimensions 110 x 400 mm



Item no. 4033 300 056 0

Dimensions 110 x 200 mm



**BECKER**

# 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	EC711	EC715	
Catalogue page	104	104	106	106	106	108	108	96	96	
<b>Applications</b>										
Roller shutter	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	
Exterior sun protection	x	x			x	x	x	x	x	
ON/OFF switch	x	x			x	x	x	x	x	
Dimmer	x	x			x	x	x	x	x	
<b>Functions</b>										
Hand-held transmitter	x	x	x	x	x	x	x			
Wall transmitter								x	x	
Surface-mounted								x	x	
Flush-mounted										
Plug-in										
Window mounting (suction pad)										
Display										
UP-STOP-DOWN-STOP toggle button			x	x						
1-channel transmitter	x		x		x			x		
2-channel transmitter (light button)										
3-channel transmitter										
5-channel transmitter		x		x					x	
10-channel transmitter							x			
Receiver/control unit										
Sensor (transmitter)										
Manual/automatic mode changeover										
Group/Central control		x		x		x	x		x	
Blind mode										
Intermediate position	x	x			x	x	x	x	x	
Memory function										
Date/time										
Auto. summer/winter time										
Holiday function										
Astro function										
Switching times										
Blocking times										
Twilight										
Sun (threshold control)										

■ 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	EC711	EC715	
Wind (threshold control)										
Rain										
Angle of inclination										
Winter operation										
Switch/button can be connected										
Glass breakage function										
Solar operation										
Roller shutter drive with Centronic receiver	x	x			x	x	x	x	x	
Sun Protection drive with Centronic receiver	x	x			x	x	x	x	x	
Connection Roller shutter drives										
Connection Sun Protection drives										
ON/OFF	x	x			x	x	x	x	x	
Dim	x	x			x	x	x			
Radiant heater switching	x	x			x	x	x	x	x	
Pulse for controlling ext. devices			x	x						

	EC513	MC441-II	MC611	TC445-II	TC4410-II	TC511	SWC241-II	SWC245-II	SWC441-II	SWC442-II	SWC745-II	SWC510	UC520
							x	x	x	x	x	x	x
											x		
													x
	x	x	x	x	x	x							
	x			x	x	x	x	x	x	x	x		
													x
	x			x	x	x						x	x
				x	x								
				x	x			x		x	x		
	x			x	x	x		x			x		



# Overview of the Centronic range of control units

Centronic control units radio solutions	VC180-II	VC280-II	VC220	VC220h	VC210/310	VC320	VC410-II	VC420-II	VC470-II	
Catalogue page	116	118	118	118	120	120	122	122	124	
<b>Applications</b>										
Roller shutter						x	x	x	x	
Roller shutter doors		x								
Interior sun protection							x	x	x	
Exterior sun protection							x	x	x	
ON/OFF switch	x			x	x		x	x		
Dimmer			x		x		x			
<b>Functions</b>										
Hand-held transmitter										
Wall transmitter										
Surface-mounted					x		x			
Flush-mounted						x		x		
Plug-in	x	x							x	
Window mounting (suction pad)										
Display										
UP-STOP-DOWN-STOP toggle button										
1-channel transmitter										
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)										
Manual/automatic mode changeover										
Group/Central control										
Blind mode							x	x	x	
Intermediate position			x		x	x	x	x	x	
Memory function						x	x	x	x	
Date/time										
Auto. summer/winter time										
Holiday function										
Astro function										
Switching times										
Blocking times										
Twilight										
Sun (threshold control)							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	VC410-II	VC420-II	VC470-II	
Wind (threshold control)							x	x	x	
Rain										
Angle of inclination										
Winter operation										
Switch/button can be connected							x	x		
Glass breakage function										
Solar operation										
Roller shutter drive with Centronic receiver										
Sun Protection drive with Centronic receiver										
Connection Roller shutter drives						x	x	x	x	
Connection Sun Protection drives							x	x	x	
ON/OFF	x			x	x		x	x		
Dim			x		x					
Radiant heater switching				x	x					
Pulse for controlling ext. devices		x								



# Overview B-Tronic control units program

B-Tronic control units radio solutions	EC711	EC715	EC5401B	EC5415B	MC611	CC51	RTC3100B	VC4200B
Catalogue page	96	96	144	144	98	142	146	146
<b>Applications</b>								
Roller shutter	x	x	x	x	x	x		x
Interior sun protection	x	x	x	x	x	x		x
Exterior sun protection	x	x	x	x	x			x
Illumination (with VC4200B)	x		x	x		x		x
Heating systems							x	
Garage door drives (with VC4200B)	x	x	x	x	x	x		
<b>Functions</b>								
Hand-held/wall transmitters	-/x	-/x	-/x	-/x	-/x	-/x		
Surface-mounted	x	x	x	x	x	x	x	
Flush-mounted								x
Display				x		x	x	
Separate UP/STOP/DOWN buttons	x	x	x	x	x	x	x	
Number of transmitter channels	1	5	1	15	1	∞		
Receiver/control unit							x	x
Manual/automatic mode changeover			x	x	x	x	x	
Single/Group or Central control	x	x	x	x	x	x	x	
Touch mode for blinds	x	x	x	x	x	x		x
Intermediate position	x	x	x	x	x	x	x	x
Ventilation position/tilt/fabric stretching	x	x	x	x	x	x		x
Memory function			x	x	x	x		x
Date/time						x		
Auto. summer/winter time						x	x	
Holiday function						x		
Astro function						x		
Switching times						x	x	
Blocking times						x		
Winter operation						x	x	
Ext. switch/button can be connected								x

# Overview of the B-Tronic range of control units

B-Tronic control units radio solutions	EC711	EC715	EC5401B	EC5415B	MC611	CC51	RTC3100B	VC4200B
Supported receivers								
CC51	x	x			x		x	x
RTC3100B						x		
VC4200B	x	x	x	x	x	x		
Roller shutter drives with Centronic receiver	x	x			x	x		
Sun Protection drives with Centronic receiver	x	x			x	x		
Roller shutter drives with B-Tronic receiver	x	x	x	x	x	x		
Supported drives								
M04-, M05-, M17-, E01-, E03-, E16-, E18 types								x
BOT5, BOT6	x	x			x	x		x

# Overview of the CentronicPLUS range of control units

CentronicPLUS control units radio solutions	EC541 PLUS	EC548 PLUS	EC5416 PLUS
Applications			
Roller shutter	x	x	
Functions			
Hand-held transmitter	x	x	x
Surface-mounted	x	x	x
1-channel transmitter	x		
8-channel transmitter		x	
16-channel transmitter			x
Manual/automatic mode changeover	x	x	x
Group/Central control	x	x	x
Intermediate position	x	x	x
Memory function	x	x	x



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CONTROL UNITS

ELECTRICAL  
ACCESSORIESMECHANICAL  
ACCESSORIES

APPENDIX

**BECKER**

# Overview

## Electrical accessories

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ELECTRICAL  
ACCESSORIES

MECHANICAL  
ACCESSORIES

APPENDIX



**BECKER**

## 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. 5 A
Degree of protection	IP 44
Permissible ambient temperature	-10 to +50 °C
Mains connection cable	1.8 m length
Antriebsleitung	1.6 m length



Quick-connection set  
4-core



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

Item no. 4809 006 002 0

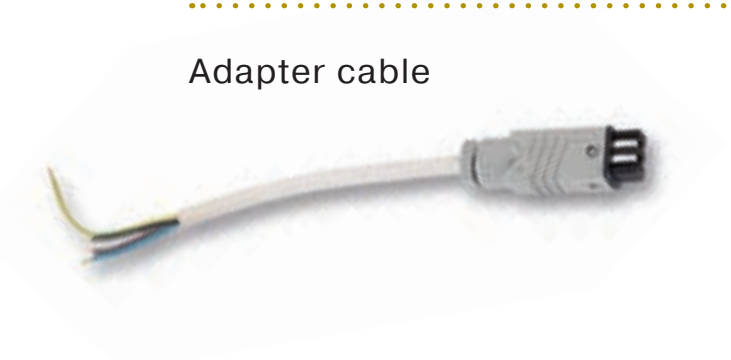
Connecting cable  
for radio drives



- 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  
(Typ STAK 3N)



Item no. 4809 002 000 0

Colour	Grey
--------	------

Hirschmann  
retaining clamp



Item no. 4809 004 000 3

Hirschmann plug  
(Typ STAS 3N)



Item no. 4809 001 000 0

Colour	Grey
--------	------



## Timer U26



C-disc for  
Busch-Jäger



Surface-mounted  
housing for U26  
timer



Light sensor LS26



- 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)	81 x 81 x 50.5 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)

## 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)	125 x 125 x 100 mm
Degree of protection	IP54
Loading capacity	floating 5 A
Type of mounting	surface-mounted
Possible codes	4.78 million
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)	125 x 125 x 100 mm
Degree of protection	IP54
Loading capacity	floating 5 A
Type of mounting	surface-mounted
Possible codes	4.78 million
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



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

## 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

## 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)	182x 180x90 mm
Mains connection	230 V / 50 Hz
Degree of protection	IP65
Loading capacity	7.5 A / 24 V
Type of mounting	1m Surface-mounted housing



# Overview

## Mechanical accessories

<b>Drive adapters and rings</b>	<b>178</b>	<b>Connecting pieces</b>	<b>199</b>
Octagonal shaft	178	Tubular drives P5 – P13	199
profilee shaft	179	Tubular drives R7 – R50	200
Hexagonal shaft	181	Tubular drives L44 – L120	202
Grooved shaft	182		
Roand tube	185	<b>Wall brackets, box brackets, system brackets and awning brackets</b>	<b>203</b>
Drive adapters and rings for sensitive obstacle detection	189	Tubular drives P5 – P13 and R7 – R50	203
Tubular drives R7 – R50	191	Tubular drives L44 – L120	210
Dismantling tool for drive adapters	192		
Fasteners for drive adapters	192	<b>Accessories for tubular drives with crank connection</b>	<b>213</b>
		R12 – L120	213
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<b>Setting tools / suspension springs</b>	<b>194</b>		
<b>Rigid shaft connectors</b>	<b>195</b>		
Rigid safety springs	195		
Rigid quick-release connectors for size 40 shafts	196		
Anti-lifting device	198		
Fastening ring	198		





# 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 50x 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 50x 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 50x 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

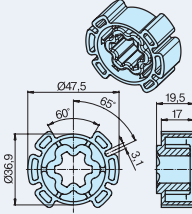
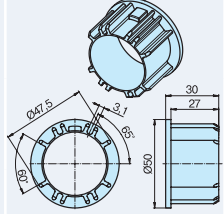

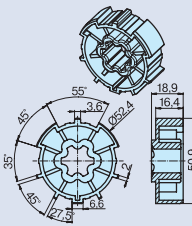
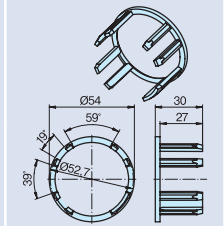

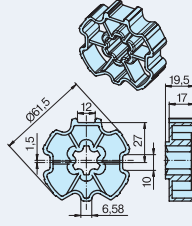
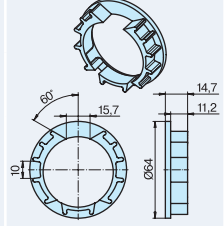

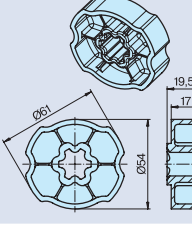
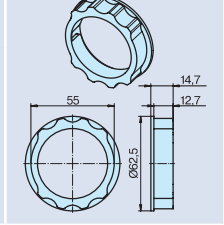

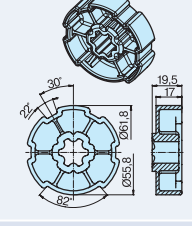
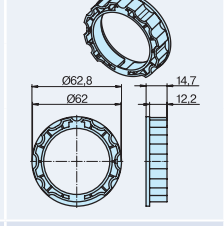

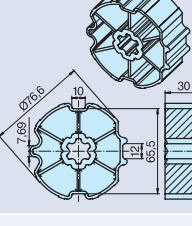
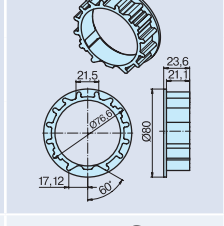

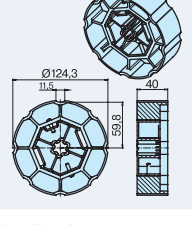
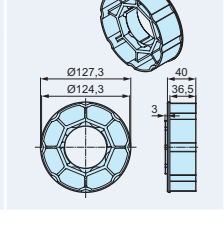

profilee shaft

Drive adapter	Ring	App. *	Manu- facturer	Designation (Dimensions)	P5 – P13	R7 – R50	L44 – L120
			Zurflüh Feller	Drive adapter ZF45x0.5  Ring ZF45x0.5	4930 300 135 0  4930 300 136 0		
			Helio- screen	Drive adapter 47x2  Ring 47x2	4930 300 305 0  4930 300 306 0		



# Drive adapters and rings

profilee shaft

Drive adapter	Ring	App.*	Manu- facturer	Designation (Dimensions)	P5 – P13	R7 – R50	L44 – L120
			Benthin	Drive adapter Benthin 52+62  Ring Benthin 52+62  Wall bracket	4930 300 442 0  4930 300 443 0  4930 300 432 0		
			Zurflüh Feller	Drive adapter ZF54  Ring ZF54  Intermediate ring 50x 1.5	4930 300 193 0  4930 300 390 0  4930 300 102 0	4930 300 193 0  4930 300 390 0	
			Zurflüh Feller	Drive adapter ZF64x0.8  Ring ZF64x0.8  Intermediate ring 50x 1.5	4930 300 140 0  4930 300 141 0  4930 300 102 0	4930 300 140 0  4930 300 141 0	
			Hoos, Metal- preß, Weis- bender	Drive adapter HM65  Ring HM65  Intermediate ring 50x 1.5	4930 300 048 0  4930 080 707 0  4930 300 102 0	4930 300 048 0  4930 080 707 0	
			Ecker- mann, Imbac	Drive adapter E65  Ring E65  Intermediate ring 50x 1.5	4930 300 047 0  4930 040 707 2  4930 300 102 0	4930 300 047 0  4930 040 707 2	
			Zurflüh Feller	Drive adapter ZF80x 1.2  Ring ZF80x 1.2  Intermediate ring 63x 1.5		4930 300 327 0  4931 300 149 0  4930 300 628 0	4931 300 148 0  4931 300 149 0
			Alukon	Drive adapter A128  Ring A128  Ring 70			4931 300 302 0  4931 200 104 0  4931 030 707 4

\*Application

## Hexagonal shaft

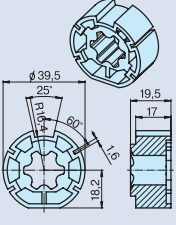
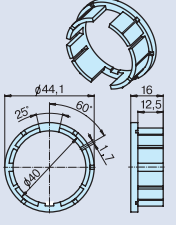

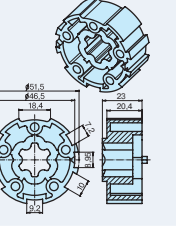
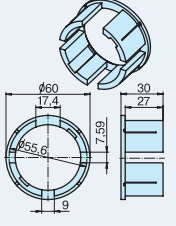

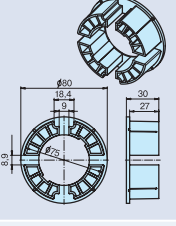

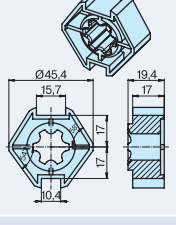
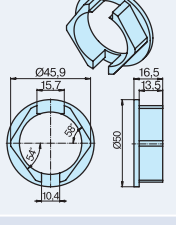

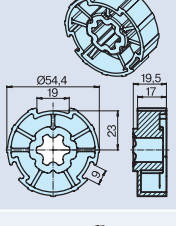
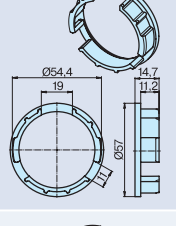

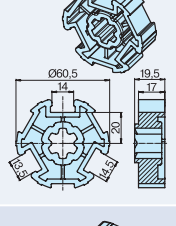
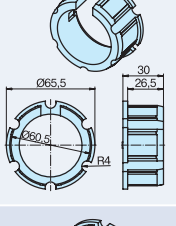
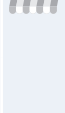
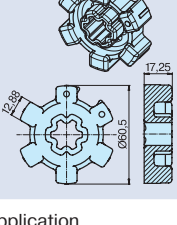
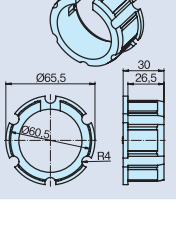
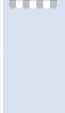
Drive adapter	Ring	App.*	Manu- facturer	Designation (Dimensions)	P5 – P13	R7 – R50	L44 – L120
			Butz- bach, Rieko	Drive adapter B60 Ring B60 Intermediate ring 50 x 1.5	4930 300 046 0 4930 030 707 1 4930 300 102 0	4930 300 046 0 4930 030 707 1	
			Butz- bach, Rieko	Drive adapter B75 Ring B75 Intermediate ring 63 x 1.5		4930 300 189 0 4931 010 707 4 4930 300 628 0	
			Butz- bach	Drive adapter B75 Ring B75			4931 300 081 0 4931 010 707 4
			Butz- bach	Drive adapter B85 Ring B85			4931 300 082 0 4931 020 707 4





# 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  Ring M40 Crown Wheel 43 mm	4930 300 408 0  4930 300 409 0		
				Drive adapter M50 Drive Wheel Universal  Ring M50 Crown Wheel 60 mm		4930 300 406 0  4930 300 407 0	
				Ring M50 Crown Wheel 80 mm		4930 300 416 0	
				Drive adapter 50x2 Rolmatic  Ring 50x2 Rolmatic	4930 300 103 0  4930 300 104 0		
				Drive adapter 57,5  Ring 57,5  Intermediate ring 50 x 1.5	4930 300 173 0  4930 300 174 0  4930 300 102 0	4930 300 173 0  4930 300 174 0	
				Drive adapter 63N K to 25 Nm  Ring 63N		4930 300 084 0  4930 300 415 0	
				Drive adapter 63N D from 30 Nm  Ring 63N		4930 300 052 0  4930 300 415 0	

\*Application

Drive adapter	Ring	App.*	Manu- facturer	Designation (Dimensions)	P5 – P13	R7 – R50	L44 – L120
				Drive adapter Forjas 70  Ring Forjas 70		4930 300 217 0  4930 300 218 0	
				Drive adapter DW70N  Ring DW70N		4930 300 055 0  4930 070 707 0	
				Drive adapter DW74N  Ring DW74N		4930 300 056 0  4930 010 707 2	
				Drive adapter DW78R+F  Ring DW78R+F		4930 300 091 0  4930 300 033 0	
				Drive adapter DW78N 1.5 mm centre offset  Ring DW78N			4931 300 365 0  4931 300 357 0
				Drive adapter DW78N 4 mm centre offset  Ring DW78N			4931 300 086 0  4931 230 707 0
				Drive adapter DW78 x 1  Ring DW78 x 1			4931 300 079 0  4931 210 707 1





# Drive adapters and rings

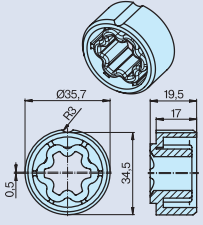

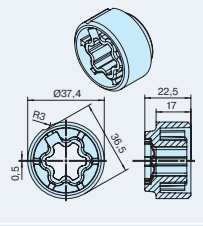
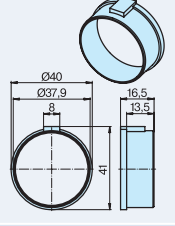

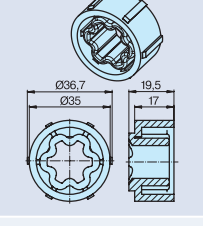
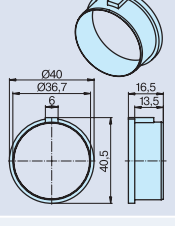

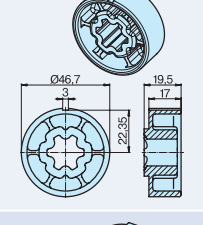
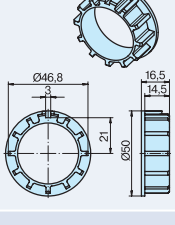
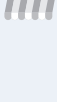
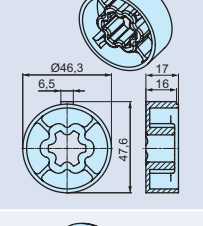
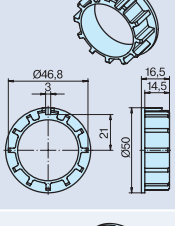
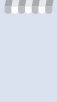
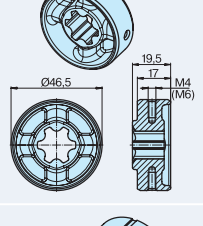
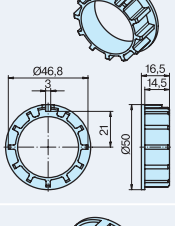
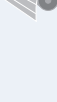
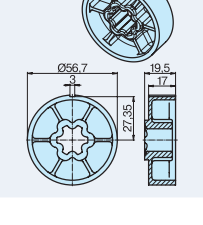
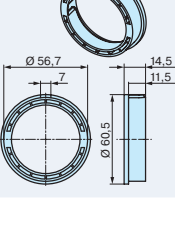

## Grooved shaft

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 adap- ter 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

## Roand tube

Drive adapter	Ring	App.*	Manu- facturer	Designation (Dimensions)	P5 – P13	R7 – R50	L44 – L120
				Drive adapter 38 x 1 / 40 x 2	4930 300 088 0 Without ring**		
				Drive adapter 40 x 1 / 42 x 2  Ring 40 x 1 / 42 x 2	4930 300 086 0  4930 300 087 0		
				Drive adapter 40 x 1.3 / 40 x 1.5  Ring 40 x 1.3 / 40 x 1.5	4930 300 195 0  4930 300 196 0		
				Drive adapter 50 x 1.5  Intermediate ring 50 x 1.5	4930 300 049 0  4930 300 102 0	4930 300 049 0  Without ring**	
				Drive adapter Siral 50  Intermediate ring 50 x 1.5	4930 300 050 0  4930 300 102 0	4930 300 050 0  Without ring**	
			Warema	Drive adapter 50 x 1.5 Thread M4  Intermediate ring 50 x 1.5	4930 300 420 0  4930 300 102 0	4930 300 420 0  Without ring**	
				Drive adapter 60 x 1.5  Ring 60 x 1.5  Intermediate ring 50 x 1.5	4930 300 075 0  4930 300 076 0  4930 300 102 0	4930 300 075 0  4930 300 076 0	



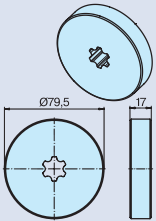
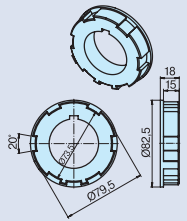

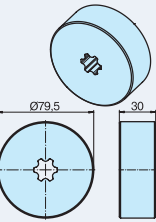
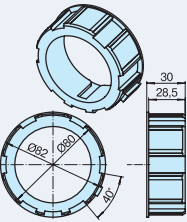

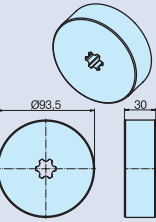
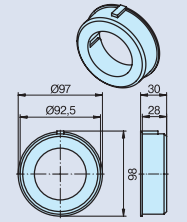

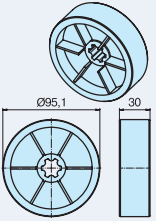
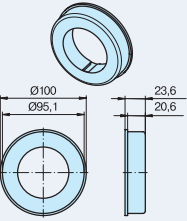

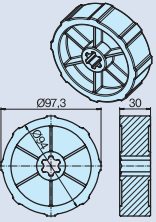
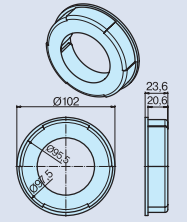

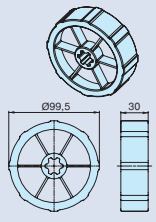
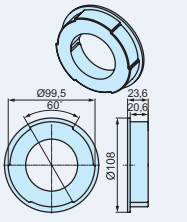

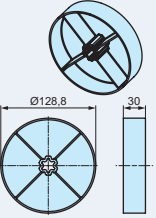
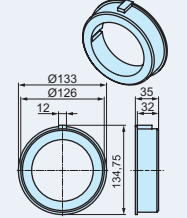

# Drive adapters and rings

## Roand tube

Drive adapter	Ring	App.*	Manu- facturer	Designation (Dimensions)	P5 – P13	R7 – R50	L44 – L120
				Drive adapter 63x 1.5  Ring 63x 1.5  Intermediate ring 50x 1.5	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 63x 1.5		4930 300 628 0	
				Drive adapter 63x 1.5			4931 300 083 0 Without ring**
				Drive adapter 70x 1.5  Ring 70x 1.5		4930 300 061 0  4930 300 062 0	
				Drive adapter 70x 1.5  Ring 70x 1.5			4931 300 084 0  4931 050 707 4
				Drive adapter 70x2  Ring 70x2			4931 300 085 0  4931 060 707 4

\*Application

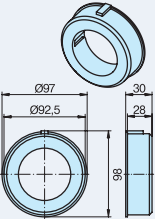

\*\*Barrel fits on the thrust ring of the drive

Drive adapter	Ring	App.*	Manu- facturer	Designation (Dimensions)	P5 – P13	R7 – R50	L44 – L120
				Drive adapter 83 x 1.5 / 85 x 2.5  Ring 83 x 1.5 / 85 x 2.5		4930 300 098 0  4930 300 100 0	
				Drive adapter 83 x 1.5 / 85 x 2.5  Ring 83 x 1.5 / 85 x 2.5			4931 300 119 0  4931 300 125 0
				Drive adapter 98 x 2  Ring 98 x 2			4931 300 115 0  4931 300 126 0
				<b>R7 – R25</b> Drive adapter 100 x 2  Ring 100 x 2  Ring 63 x 1.5		4930 300 185 0  4931 300 160 0  4930 300 628 0	4931 300 167 0  4931 300 160 0
				Drive adapter 102 x 2  Ring 102 x 2			4931 300 104 0  4931 300 049 0
				Drive adapter 108 x 3.6  Ring 108 x 3.6			4931 300 155 0  4931 300 043 0
				Drive adapter 133 x 2  Ring 133 x 2			4931 300 120 0  4931 300 127 0



# Drive adapters and rings

Roand tube

Drive adapter	Ring	App.*	Manu- facturer	Designation (Dimensions)	P5-P13	R7-R50	L44-L120
				Ring 98x2			4931 300 126 0

\*Application

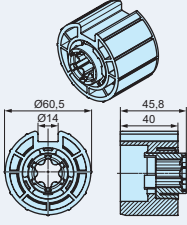
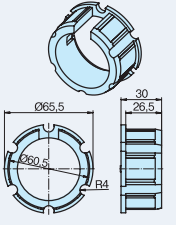

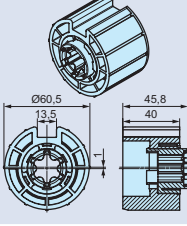
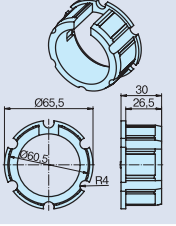

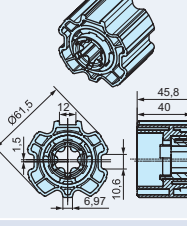
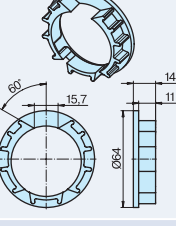

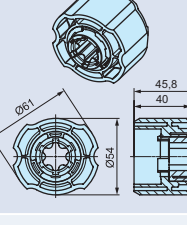

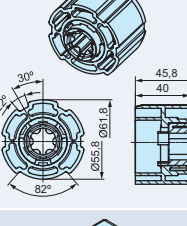
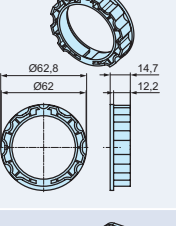

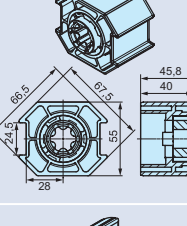
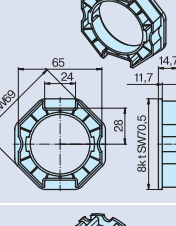

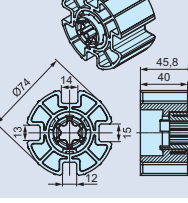
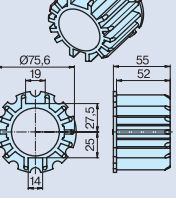

## Drive adapters and rings for sensitive obstacle detection

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	


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# 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  Ring 63N  Intermediate ring 50x1.5	4930 200 276 0  4930 300 415 0  4930 300 102 0	4930 200 276 0  4930 300 415 0	
				Drive adapter O-63N 13.5 mm  Ring 63N  Intermediate ring 50x1.5	4930 200 277 0  4930 300 415 0  4930 300 102 0	4930 200 277 0  4930 300 415 0	
				Drive adapter O-ZF64  Ring ZF64x0.8  Intermediate ring 50x1.5	4930 200 231 0  4930 300 141 0  4930 300 102 0	4930 200 231 0  4930 300 141 0	
				Drive adapter O-HM65  Ring HM65  Intermediate ring 50x1.5	4930 200 245 0  4930 080 707 0  4930 300 102 0	4930 200 245 0  4930 080 707 0	
				Drive adapter O-E65  Ring E65  Intermediate ring 50x1.5	4930 200 249 0  4930 040 707 2  4930 300 102 0	4930 200 249 0  4930 040 707 2	
				Drive adapter O-SM70  Ring SM70  Intermediate ring 50x1.5	4930 200 236 0  4930 000 607 0  4930 300 102 0	4930 200 236 0  4930 000 607 0	
				Drive adapter O-DW78 R+F  Ring DW78 R+F		4930 200 274 0  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 63 x 1.5		4930 300 628 0	
				Drive adapter O-D100		4930 200 278 0	
				Ring DW100		4931 300 336 0	
				Intermediate ring 63 x 1.5		4930 300 628 0	
				Drive adapter Forjas 70		4930 200 279 0	
				Ring Forjas 70		4930 300 218 0	

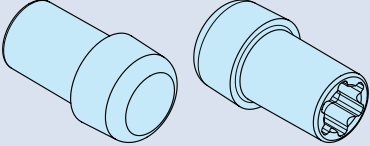
## Adapter kit for R series Tubular drives R7 – R50

	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

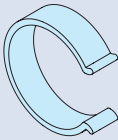

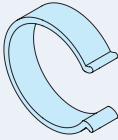

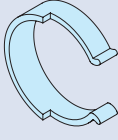

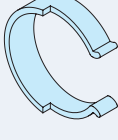

## Dismantling tool for drive adapters

	Name	Application	Item number
	Dismantling tool for drive adapters		4930 300 606 0

## Fasteners for drive adapters

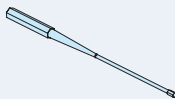

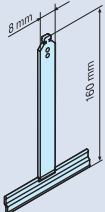

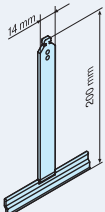





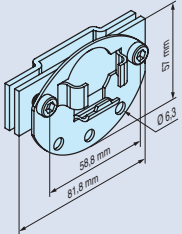

Name	Application	R7–R20	R30–R120	L44–L120
Drive adapter safety catch		4930 300 161 0		
Tooth lock washer			9900 101 679 7	
Screw M6			9901 250 091 2	
Screw M6 for drive adapter 102 / 125-octagonal				9901 252 091 2
Washer for drive adapter 102 / 125-octagonal				4931 300 161 0

# 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

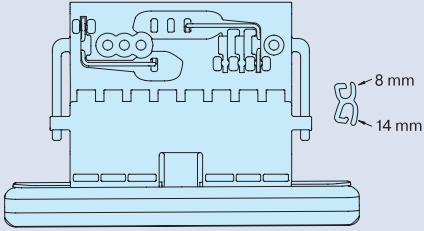

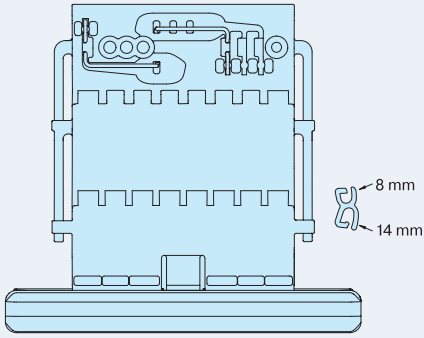

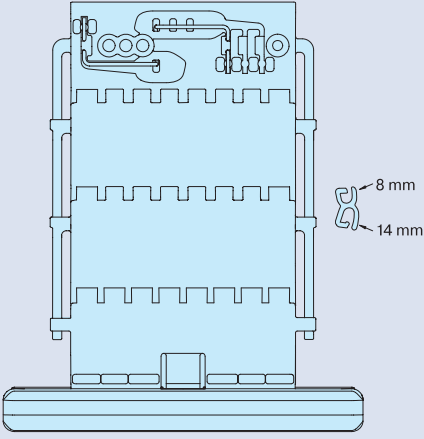



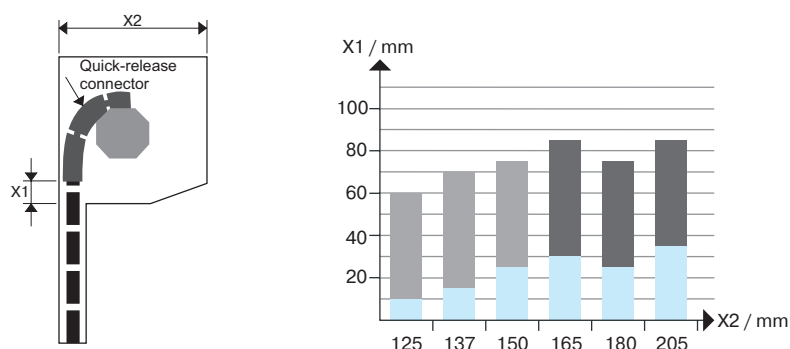
# Setting tools / suspension springs

	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

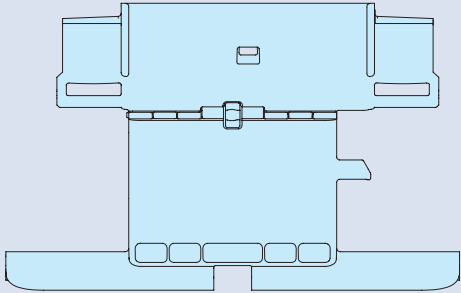

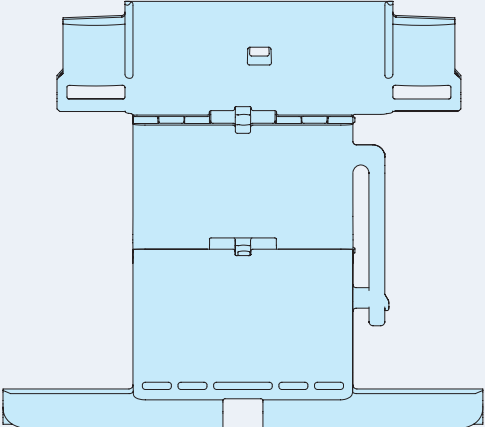

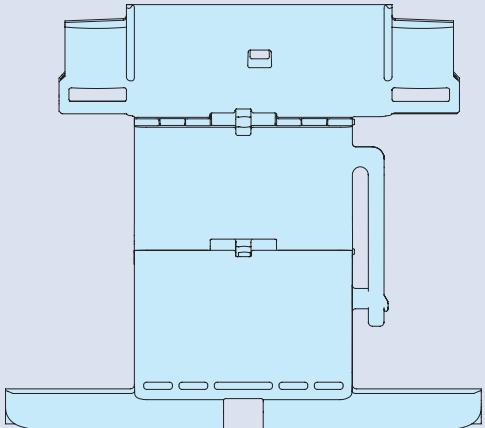

	Name	Application	Item number
	Rigid safety spring 1-link	<ul style="list-style-type: none"> <li>For 50 mm and 60 mm shaft diameters</li> <li>With mounting profile for 8 mm and 14 mm roller shutter laths</li> <li>Roller shutter tubular drives with automatic detection of anti-lifting devices (+-types, e. g. RP+, 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. RP+, 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. RP+, PR+, C01 etc.)</li> </ul> 	4902 000 308 0

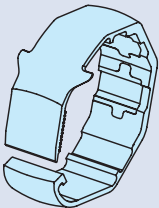

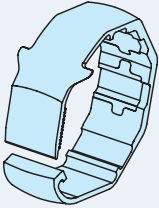

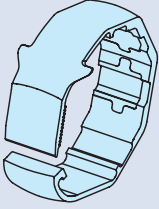



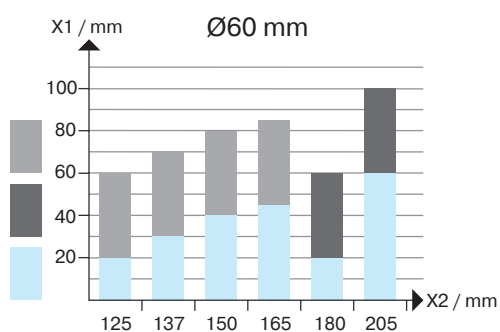
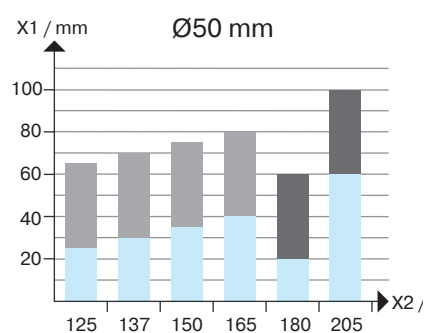
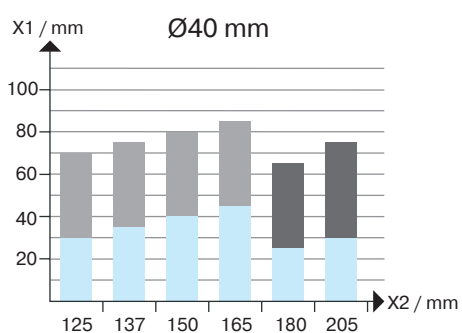
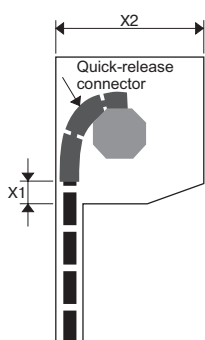
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# Rigid shaft connectors

## 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	■ For size 40 octagonal shafts 	4902 000 311 0
	Ring for rigid quickrelease connector	■ For size 50 octagonal shafts 	4902 000 313 0
	Ring for rigid quickrelease connector	■ For size 60 octagonal shafts 	4902 000 314 0



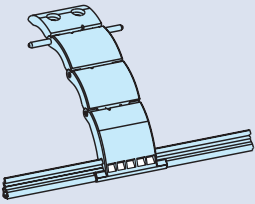

-  Add roller shutter laths
-  Area of application for 2-link quick-release connectors
-  Add roller shutter laths





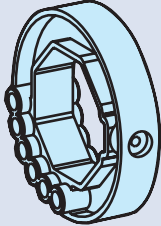

# Rigid shaft connectors

## 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	■ R8-E03 ... R20-E03	4902 000 259 0
		■ R8-C01 ... R40-C01	
		■ R8/17RP(+) – R20/17RP(+)	
			

# Connecting pieces

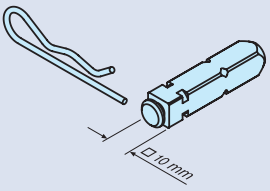


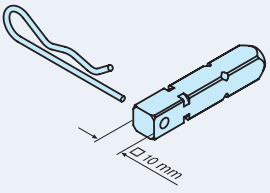


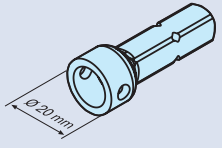


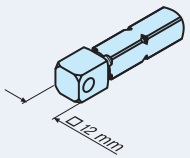


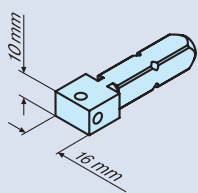


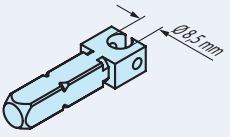

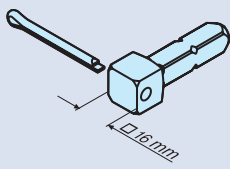


## Tubular drives P5 – P13

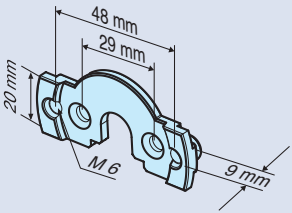

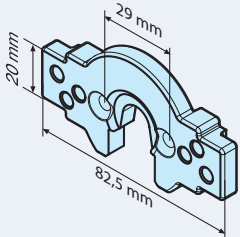

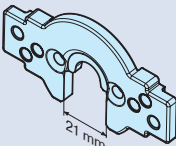


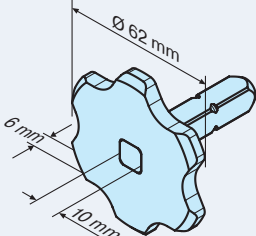


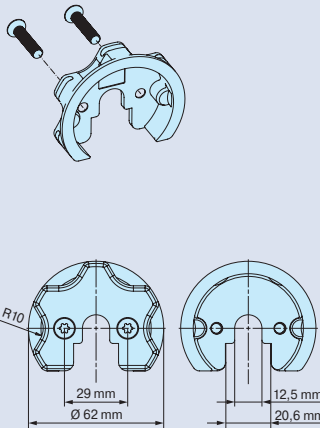


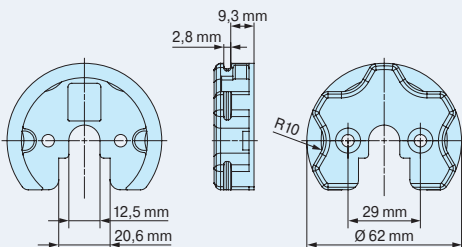

	Name	Application	Item number
	Connecting piece-P 4K-10 including screws, with square, 10 mm	Drives for roller shutters P5 – P13 Drives for sun protection P5 – P13	4930 200 140 0
	Connecting piece-P 20-roand including screws, with roand pin Ø 20 mm	Drives for roller shutters P5 – P13 Drives for sun protection 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

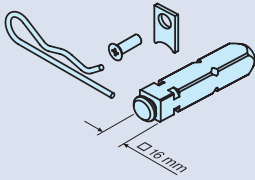


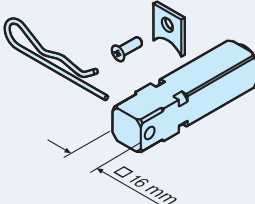


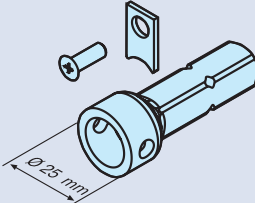


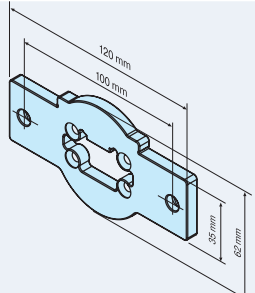

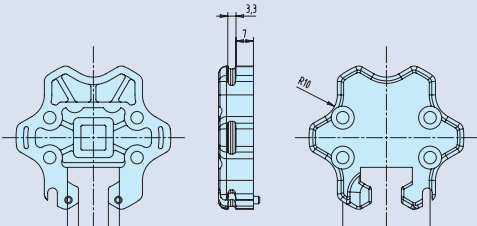


	Name	Application	Item number
	Mounting pin-R 1/10 Square 10 mm	 Drives for roller shutters R7 – R50  Drives for sun protection R7 – R50	4930 200 026 0
	Mounting pin-R 2/10 Square 10 mm	 Drives for roller shutters R7 – R50  Drives for sun protection R7 – R50	4930 200 030 0
	Mounting pin-R 3/20 round, 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 16 x 10 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	 Roller shutter drives with plug-in connecting cable (C-Plug) (one-sided load) R7 – R40  The item is not suitable for drive series E02, E03 or EVO.	4930 200 235 0
	B-strip-P C-plug including screws	 Drives for roller shutters R8 – R30, type E02, E03 and R8-EVO – R20-EVO   Drives for sun protection R8 – R30	4930 200 298 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



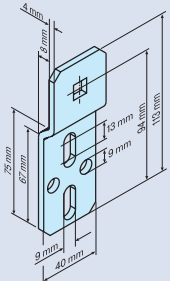

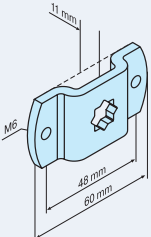

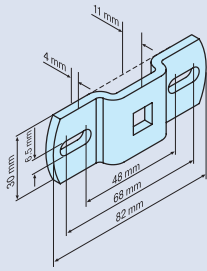

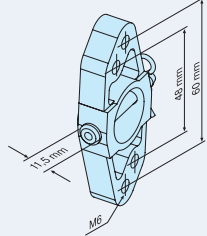


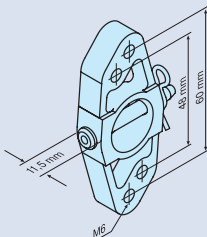


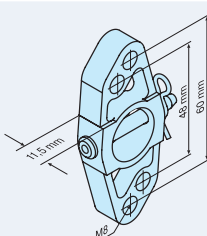


# Connecting pieces

## 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

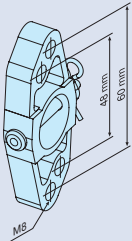


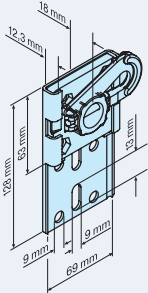

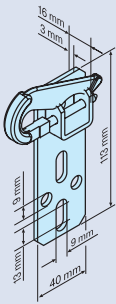

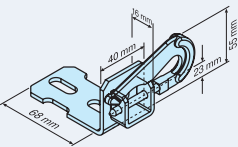

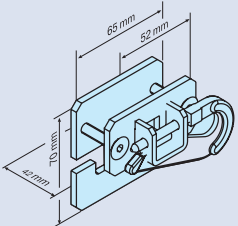

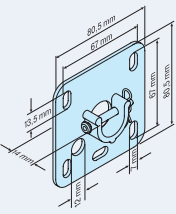

Tubular drives P5 – P13 and R7 – R50

	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

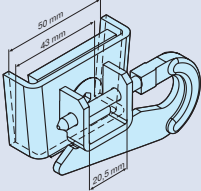

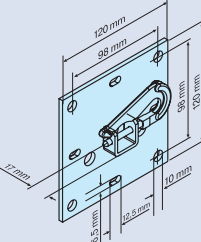

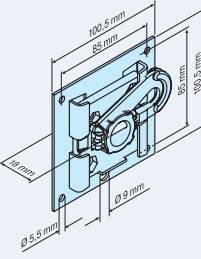

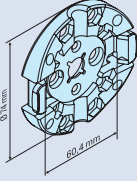

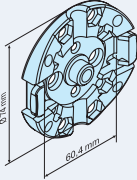



# Wall brackets, box brackets, system brackets and awning brackets

Tubular drives P5 – P13 and R7 – R50

	Name	Application	Item number
	Awning bracket M8 without spigot for mounting pin 3/20	 Drives for roller shutters R7 – R40  Drives for sun protection R7 – R40	4930 000 726 1
	Universal wall bracket-P/R 3/20 for mounting pin 3/20 and connecting piece Ø 20 mm	 Drives for roller shutters R7 – R50	4930 200 005 0
	Box bracket-P/R 3/20 for mounting pin 3/20 and connecting piece Ø 20 mm	 Drives for roller shutters R7 – R50	4930 010 607 0
	Behind-plaster bracket-P/R 3/20 for mounting pin 3/20	 Drives for roller shutters R7 – R50	4930 040 607 0
	Conversion bracket-P/R 3/20 for the behindplaster bracket for mounting pin 3/20	 Drives for roller shutters R7 – R30	4930 200 077 0
	Plate bracket-P/R B80 3/20 width 80 mm for mounting pin 3/20	 Drives for roller shutters R7 – R30	4930 000 607 2



	Name	Application	Item number
	Complete conversion set-P/R 3/20 for the behind plaster bracket for mounting pin 3/20	 Drives for roller shutters R7 – R30	4930 200 207 0
	Plate bracket-P/R B120 3/20 width 120 mm for mounting pin 3/20	 Drives for roller shutters R7 – R50	4930 200 001 0
	Motor bracket-P/R 3/20 for covering cap for mounting pin 3/20	 Drives for roller shutters R7 – R50	4930 200 036 0
	Wall bracket-P/R with catch for Mini strip	 Drives for roller shutters P5 – P13 R7 – R20	4930 300 382 0
	Wall bracket-P/R with catch 2 for Mini strip	 Drives for roller shutters P5 – P13 R7 – R20	4930 300 332 0



# Wall brackets, box brackets, system brackets and awning brackets

Tubular drives P5 – P13 and R7 – R50

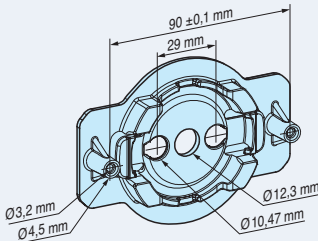

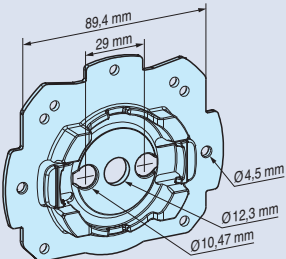

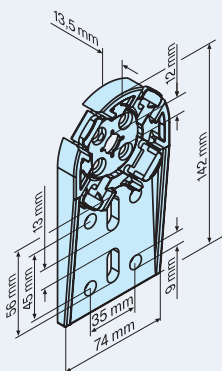

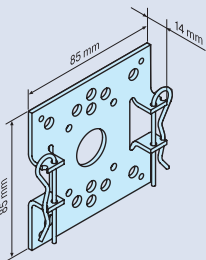

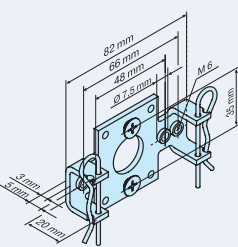

	Name	Application	Item number
	Wall bracket-P/R Exte with catch for Mini strip and EXTE and Alukon head piece	 Drives for roller shutters P5 – P13 R7 – R20	4930 300 524 0
	Wall bracket-P/R Gealan with catch for Mini strip and Gealan head piece	 Drives for roller shutters P5 – P13 R7 – R20	4930 300 525 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

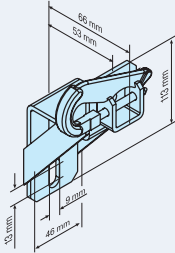

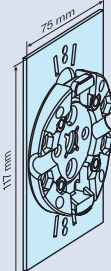

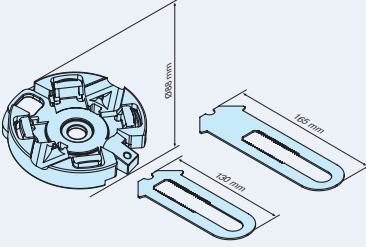

	Name	Application	Item number
	Wall bracket Lakal with catch for Mini strip and Lakal head piece	Drives for roller shutters P5 – P13 R7 – R20	4930 300 389 0
	Wall bracket-P/R Profine with catch for Mini strip and VariNova head piece	Drives for roller shutters P5 – P13 R7 – R20	4930 300 496 0
	Wall bracket-P/R 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

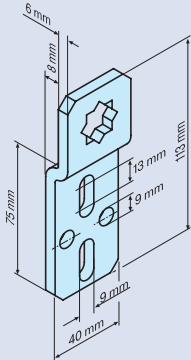

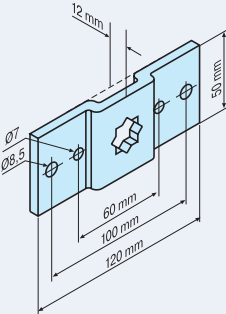

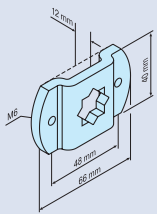

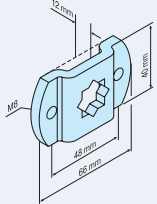

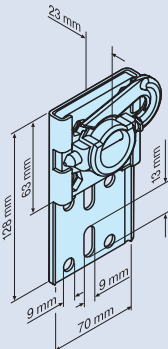

	Name	Application	Item number
	Wall bracket with catch ZF	 Drives for roller shutters to 20 Nm	4930 300 585 0
	Wall bracket with catch 2 ZF	 Drives for roller shutters to 20 Nm	4930 300 586 0
	New build bracket-P/R with catch for Mini strip	 Drives for roller shutters R7 – R20	4930 300 418 0
	Plate bracket-R 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

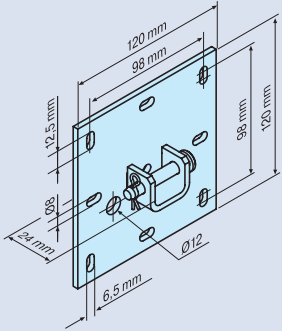

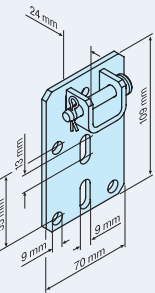

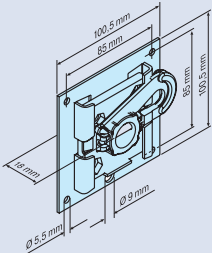

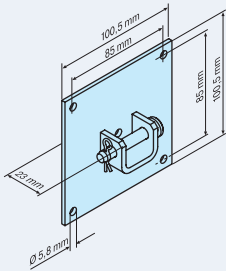

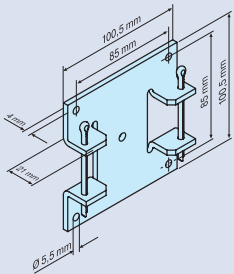

	Name	Application	Item number
	Box bracket-P/R 3/20 offset for mounting pin 3/20	 Drives for roller shutters R7 – R50	4930 200 098 0
	Wall bracket-P/R with catch including plate	 Drives for roller shutters R7 – R20	4930 200 186 0
	Universal frontmounting clamp bracket for covering cap sizes 125 – 165  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 and 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 caps 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

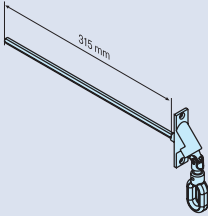

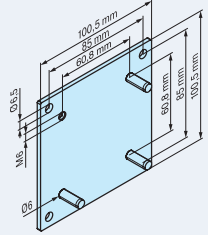

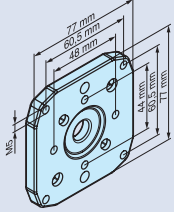

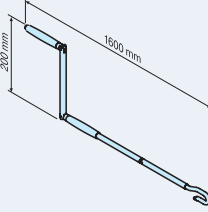

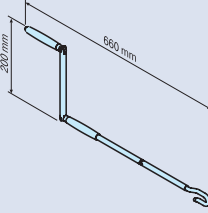

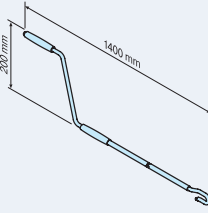

R12 – L120

	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	 <p><b>Note:</b> Permanently mounted crank</p> <p><b>Note:</b> Accessories for permanently mounted cranks</p>	4930 200 294 0
	Secure clip for pivoting bearing Ø 18,3 x 10 mm		4930 200 295 0
	Anchoring clip for wall mounting		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

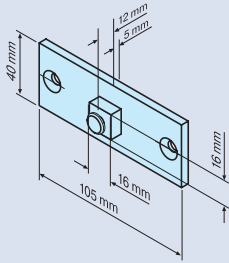


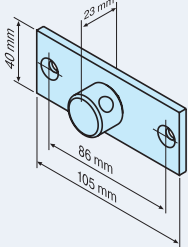


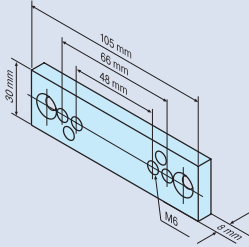

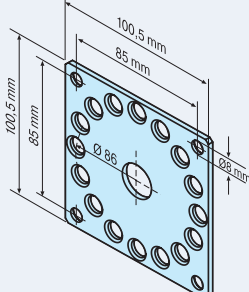



# Accessories for tubular drives with crank connection

R12 – L120

	Name	Application	Item number
	Pivoting bearing 90-Ö 90°, with hexagonal rod SW 7 mm connecting eye	 <b>Note:</b> Accessories for removable cranks only	4931 200 072 0
	Adapter plate HK with pins up to 120 Nm		4931 200 082 0
	Adapter flange HK to 120 Nm		4931 300 304 0
	Jointed crank, long	 <b>Note:</b> Removable crank	4930 200 143 0
	Jointed crank, short	 <b>Note:</b> Removable crank	4930 200 145 0
	Awning crank	 <b>Note:</b> Removable crank	4930 200 020 0

## Connecting pieces

	Name	Application	Item number
	Connecting piece-HK 16 square with 16 mm square	 Drives for roller shutters R12 – L120 (note the restrictions for wall brackets)   Drives for awnings R12 – L120 (note the restrictions for awning brackets)	4930 200 172 0
	Connecting piece-HK 3/25 with mounting pin 3/25	 Drives for roller shutters R12 – L120 (note the restrictions for wall brackets)   Drives for awnings (one-sided load) R12 – L80 (note the restrictions for awning brackets)	4931 200 085 0
	Awning bracket-HK M6 with fixing screws	 Drives for sun protection L44 – L120	4930 200 151 0
	Adapter plate-HK for covering caps with fastening screws	 Drives for roller shutters and roller doors L44 – L120	4930 200 149 0



	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	max. operating torque: 145 Nm, max. operating speed: 22 rpm, max. arresting torque: 365 Nm	2522 101 000 0
	2522 110 000 0 Mounting plate for 2522 101 000 0		
	2522 200 001 0 Shaft pin 70-4-16 compl.		



# Overview

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# Appendix

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Bracket selection list	219
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# Bracket selection list

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 204 in the catalogue (Mechanical Accessories)

with mounting pin 3

**Item no. 4930 300 159 0**

Page 200 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 209 in the catalogue (Mechanical Accessories)

or larger

Universal front mounting clamp bracket 165 – 230

**Item no. 4930 200 264 0**

Page 209 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 205 in the catalogue (Mechanical Accessories)

in conjunction  
with Mini strip-P

**Item no. 4930 200 232 0**

Page 199 in the catalogue (Mechanical Accessories)

with Mini strip-R

**Item no. 4930 200 244 0**

Page 201 in the catalogue (Mechanical Accessories)

with mounting pin 3

**Item no. 4930 300 159 0**

Page 200 in the catalogue (Mechanical Accessories)

with mounting pin on the right

**Item no. 4930 200 207 0**

Page 205 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 205 in the catalogue (Mechanical Accessories)

in conjunction  
with Mini strip-P

**Item no. 4930 200 232 0**

Page 199 in the catalogue (Mechanical Accessories)

with Mini strip-R

**Item no. 4930 200 244 0**

Page 201 in the catalogue (Mechanical Accessories)

or

a system bracket for the manufacturers: Exte, Gealan, Inoutic,  
Kömmerling, Profine, SKS, Thyssen and Veka  
Page 203 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 201 in the catalogue (Mechanical Accessories)

with plate bracket

**Item no. 4930 200 007 0**

Page 208 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 204 in the catalogue (Mechanical Accessories)

or

Conversion bracket 2

**Item no. 4930 200 207 0**

Page 205 in the catalogue (Mechanical Accessories)



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## Notes



## Notes

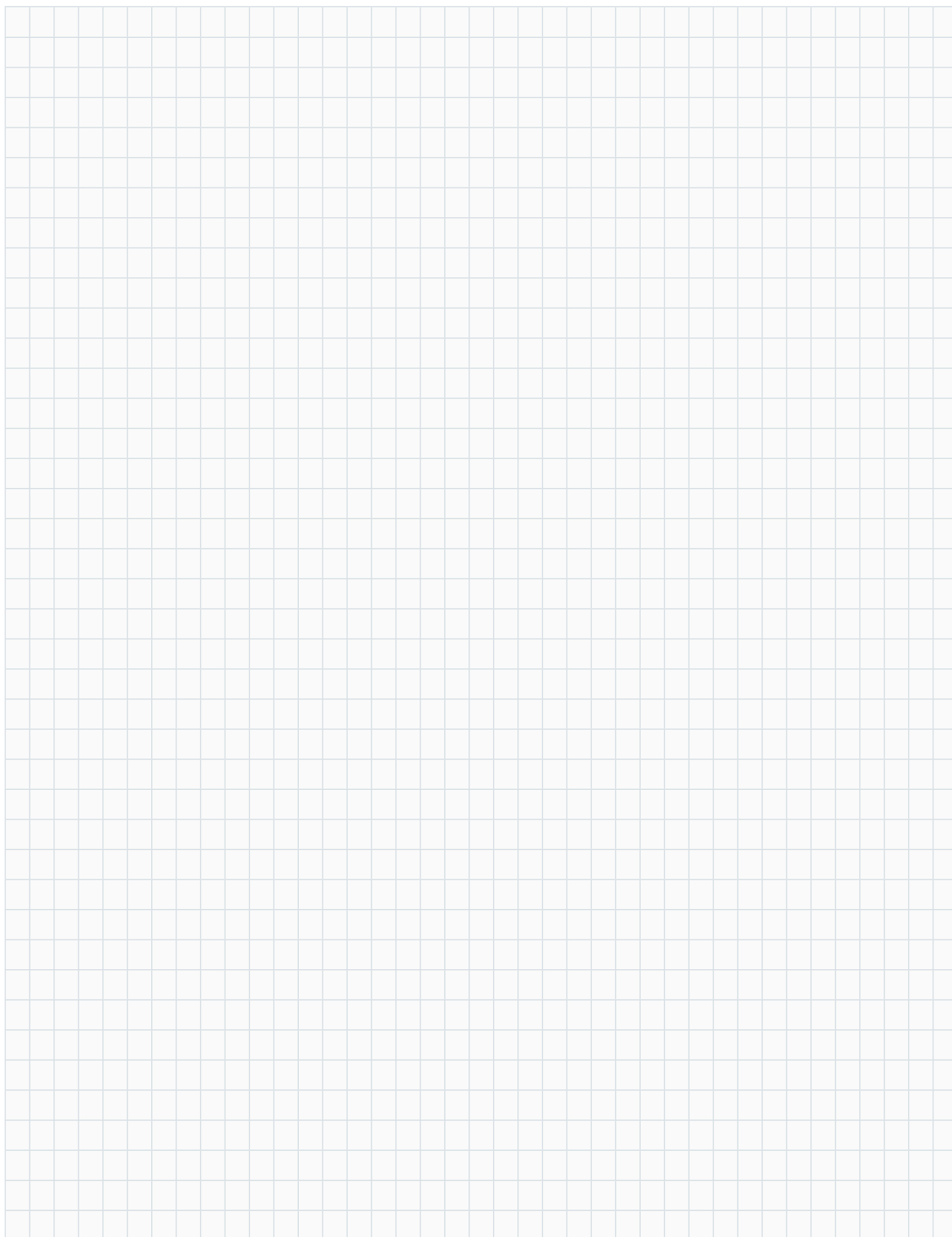
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## Notes



# Notes

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Together it's easier.

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# 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 January 2018 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

Agreements on dates or deadlines for a delivery of service are not binding unless put in writing. If all or part of the delivery or service is delayed due to circumstances beyond the control of the Manufacturer, including force majeure, traffic disruption, strikes, fire, water damage, power cuts, operational disruptions, administrative measures, lock-outs, lack of materials or other unavoidable events, the Manufacturer is entitled to extend the delivery period by the length of the disruption plus an appropriate lead time, or to withdraw from the contract completely or partially in consequence of the part of the contract not yet fulfilled. If the disruption continues for more than three months, the Purchaser is entitled, after setting a reasonable grace period, to withdraw from the contract with regard to the part of the contract that has not yet been fulfilled. If the delivery period is extended or the Manufacturer is freed from their obligation, the Purchaser has no claims to compensation arising from this. 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.

## §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 is at all times entitled to make part deliveries or deliver partial services.

## §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 that third-party industrial property rights are infringed, the Purchaser, irrespective of whether or not they are at fault, is obliged to exempt the Manufacturer from any third-party claims and pay compensation to the Manufacturer.

## §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 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.
  - 1.7 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. of the BGB (German Civil Code). 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.
  - 1.8 The manufacturer shall reimburse the contractor for the installation and expansion costs in case of a defective delivery according to § 439 Para. 3 of the BGB (German Civil Code), as soon as culpable conduct on the part of the manufacturer can be proven. No-fault reimbursement is excluded.
  - 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 §9 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. Obligation to inspect and give notice of defects  
The Purchaser is subject to a legal 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 service has been delivered or the risk transferred, the Purchaser must immediately check that the consignment is complete and determine any obvious defects within 10 days at the latest, clearly notified in writing to the Manufacturer. Once this 10-day period has elapsed, it is assumed that the consignment was complete and the goods free of defects at the time of transfer of risk.

#### **§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.

The provisions in § 9 are also applicable to Purchaser claims for compensation associated with control unit components, door, roller shutter and sun protection drives as well as all equipment that is not used in roller shutter or sun protection systems in the conventional sense, including fire protection systems, swimming pool systems, sports or similar facilities.

#### **§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**

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 the Purchaser fall into payment arrears, the Manufacturer shall be entitled to demand 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.

Issue date: 01/01/2018



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**We aim to get things moving.**  
**That's why we share our**  
**knowledge with our partners.**





# The BECKER academy

Knowledge makes the difference

As our partner, there's one thing you can rely on: we are always at your side. The BECKER academy makes it easy for you to become a qualified expert in all of our drive and control solutions – so that you are well prepared for the challenges of today and tomorrow. Whether fitters, electricians or door manufacturers: they should all be able to handle Becker solutions safely without the need for further assistance. After all, we don't just want to make life easier for your customers, but for you too.

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**Your personal contact partner:**

Nadine Heep-Bassl

Phone: 0 27 72 / 507-175

[nadine.heep-bassl@becker-antriebe.com](mailto:nadine.heep-bassl@becker-antriebe.com)



**BECKER**



**BECKER-Antriebe GmbH**

Drives and control units for  
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and Extended Applications

Friedrich-Ebert-Straße 2 – 4  
D-35764 Sinn

Tel.: 02772/507-0  
Fax: 02772/507-110

[info@becker-antriebe.com](mailto:info@becker-antriebe.com)  
[www.becker-antriebe.com](http://www.becker-antriebe.com)

