



TUBULAR DRIVES WITH ABSOLUTE ENCODER AND XCF-400e MOTOR CONTROLLER

for textile fire protection closures and smoke barriers. **By Becker.**

QUALITY
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for you. forever.

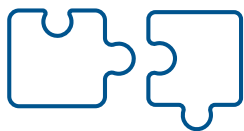
Our drive is your safety.

Competent solutions for demanding requirements.

The right drive for your system

For reliable protection in case of fire, a smoke curtain or fire protection closure must be rendered ineffective in a controlled manner and automatically reach the functional position. This self-closing feature, combined with the integrated control of the closing speed, makes fire protection solutions even safer. Whether in smoke protection closures, fire protection closures

or smoke barriers - the use of our tubular drives is proven and certified in application. Our self-closing drives, which bring the fire protection closure into the functional position without auxiliary energy - also known as fail-safe tube motors - are available in various designs and sizes.



Combine technologies:

The self-closing property, combined with our proven speed controllers make our fail-safe actuators unique.



Locking device:

The hold-open device integrated in most drives is DIBt approved and externally monitored - together we make fire protection even safer.



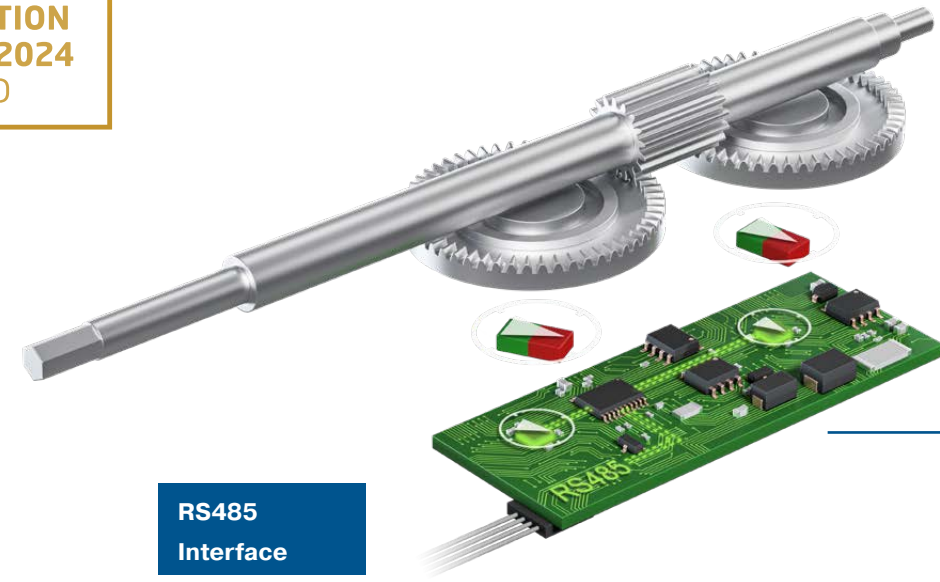
C2 Classification:

Our drives have a life expectancy of at least 10,000 cycles and are therefore the basis for your C2 classification.



Standards:

Our tubular drives meet the requirements of the standards relevant to your system, such as hEN 16034 or EN 12101-1.



RS485 Interface

Electronic limit switch

The end positions do not have to be set manually on the motor head, as is the case with a mechanical limit stop, but can be conveniently programmed via the control system. Access to the motor head during production or installation thus becomes obsolete. This enables, among other things:

- High precision positioning
- Travel path up to 40 revolutions
- No reference run necessary

! To integrate the position evaluation of the drive into your own control system this requires an RS485 interface.
We provide you with the protocol for the software implementation.



Motor control for smoke barriers and fire protection closures



Tubular drive
AE FKB(8...28) 10A

Motor control
XCF-400e

Configurable inputs and outputs

- Status relay for maintenance/end positions/intermediate position
- Inputs for latching/dead-man/intermediate position
- Fail-safe NC contact



Functionality can be extended via plug-in expansion cards

Progress through innovation

The new drive generation with electronic limit switch with absolute encoder inspires with unique features that already make textile fire protection systems safe for the future - both technically and in terms of standards.

With the newly developed absolute encoder integrated in the Becker tubular drive, every position of the blind can be detected with the highest resolution. Thanks to the combination of mechanics and electronics, no reference run is necessary even in case of danger or after a power failure. The rotational movement of the winding shaft is operatively connected to the limit switch - when the winding shaft rotates, a pinion is driven which meshes with two gearwheels with magnetic cores. Through this rotation, impulses are passed on to the limit switch board. Each

position of the gearwheels is thereby assigned an exact position of the smoke and fire protection system. Via an RS485 interface, data is transmitted to the control system and finally the position data is evaluated.

In combination with an approved control system, the limit switch fulfils **performance level (d)**.

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Intermediate position

- Precise switch-off in a freely selectable position between the end positions in case of danger
- Adjustable dwell time until restart

Functional monitoring

- Monitoring the locking device
- Monitoring of the closing speed regulator
- Alarm message in case of defect

PATENTED



Our tubular motor for fire protection systems features integrated electronic position detection. It continuously records and monitors the curtain's absolute position – even in the event of a power failure or an emergency. As a result, reference runs after an incident are no longer required. This ensures rapid availability and permanently precise control of the curtain position.

Emergency stop

- Electrical safety edge can be connected
- Emergency stop on release also possible in case of danger

Configuration and maintenance via PC-Softwaretool

- Setting of end positions and intermediate position
- Software protection through licence dongle
- Parameterisable maintenance interval
- Output of maintenance log
- USB-C interface onboard
- Access restriction configurable



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Drives and control units for
roller shutters, sun protection
and Extended Applications

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