

P5-20...L120-11

Model: E16

en Assembly and Operating Instructions

Sun protection drives for locking systems

Important information for:

• Fitters / • Electricians / • Users

Please forward accordingly!

These instructions must be kept safe for future reference.

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General

These tubular drives are high-quality products with the following features:

- Optimised for sun protection applications with locking system
- freely programmable locking and unlocking limit position
- Automatic detection of upper limit position
- Automatic detection of lower limit position when the locking system is activated
- Easy to set and delete the limit positions using the programming unit
- Several drives can be operated in parallel
- Compatible with existing drives with electronic limit switching (4-core connecting cable)
- Compatible with the comprehensive range of the drive manufacturer's control units
- Smooth operation of the system and the drive increases the service life
- For plug-in connecting cable

Please follow these Assembly and Operating Instructions when installing and setting up the device.




The date of manufacture comes from the first four digits of the serial number.

The numbers 1 and 2 indicate the year and the numbers 3 and 4 indicate the calendar week.

Example: 34th calendar week in 2020

Ser. No.:	2034XXXXX
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Explanation of pictograms

	CAUTION	CAUTION indicates a hazardous situation which, if not avoided, could result in injury.
	ATTENTION	ATTENTION indicates measures that must be taken to avoid damage to property.
		Denotes user tips and other useful information.

Warranty

Structural modifications and incorrect installation which are not in accordance with these and our other instructions can result in serious injuries, e.g., crushing of limbs. Therefore, structural modifications may only be carried out with our prior approval and strictly in accordance with our instructions, particularly the information contained in these Assembly and Operating Instructions. Any further processing of the products which does not comply with their intended use is not permitted.

The end product manufacturer and fitter have to ensure that all the relevant current statutory, official and, in particular, EMC regulations are adhered to during utilisation of our products, especially with regard to end product manufacture, installation and customer advice.

Safety instructions

The following safety instructions and warnings are intended to avert hazards and to prevent property damage and personal injury.

Instructions for the user

General information

- The drive must be disconnected from its power source during cleaning and maintenance and when replacing parts.
- All work, including maintenance and cleaning, on electrical installations as well as other system parts must always be performed by trained technicians, in particular qualified electricians.
- Children from the age of 8 years and persons with reduced physical, sensory or mental capabilities or lack of experience and/or knowledge may use these devices, provided they are supervised or have been instructed in the safe use of the device, and have understood the hazards involved. Children must not play with the device.
- Systems have to be checked regularly by authorised specialists for wear and damage.
- Always put damaged systems out of operation immediately until they are repaired by an authorised specialist.
- Do not operate equipment if people or objects are within the danger zone.
- Observe the danger zone of the equipment during operation.
- Ensure that there is adequate clearance (at least 40 cm) between moving parts and adjacent objects.



Caution

Safety instructions for avoiding serious injuries.

- **Crushing or shearing points must be avoided or protected.**

Instructions for installation and commissioning

General information

- Observe the safety instructions in EN 60335-2-97. Please note that this list of safety instructions is not exhaustive, since it would be impossible for the standard to include all sources of danger. For example, the design of the operated product, the way the drive works in the situation it is installed in or even the way the end product is mounted in the end user's place of use cannot be taken into consideration by the drive manufacturer.
If any questions or uncertainties regarding the safety instructions contained in the standard arise, please contact the manufacturer of the part or end product in question.
- All applicable standards and regulations for electrical installation must be complied with.
- All work, including maintenance and cleaning, on electrical installations as well as other system parts must always be performed by trained technicians, in particular qualified electricians.
- Only use spare parts, tools and accessory devices which have been approved by the drive manufacturer.
Unapproved third-party products or modifications to the system and its accessories represent a risk to your safety and the safety of others. This means that the use of unapproved third-party products, or modifications which have not been agreed with or approved by us, are prohibited. We do not accept liability for damage or injury arising from such actions.
- Position switch with OFF presetting within sight of the driven product, but away from moving parts, at a height of over 1.5 m. This must not be publicly accessible.
- Permanently mounted control devices must be positioned where they can be seen.
- Rated torque and duty cycle must be suitable for the requirements of the driven product.
Technical data - rated torque and service life can be found on the type plate of the tubular drive.
- Hazardous moving parts of the drive must be installed at a height of over 2.5 m above floor level or any other surface from which the drive can be accessed.
- To ensure safe operation of the system after commissioning, the limit positions must be correctly set/programmed in.
- Drives with a H05VV-F connecting cable may only be used indoors.
- Drives with a H05RR-F, S05RN-F or 05RN-F connecting cable may be used both indoors and outdoors.
- To connect the drive to the driven part, solely mechanical accessory components made by the drive manufacturer from the current product catalogue may be used. The components must be installed in accordance with the manufacturer's instructions.

- If the drive is used for shading solutions in a specially marked area (e.g., escape routes, hazard zones, safety areas), compliance with all applicable regulations and standards must be ensured.
- Once the drive has been installed, the fitter must mark the used tubular drive in the “Technical data” chapter and make a note of the installation position.



Caution

Safety instructions for avoiding serious injuries.

- **When electrical or electronic equipment and units are operated, certain components, e.g., the power supply unit, are live. Physical injuries or damage to property can result in the event of unauthorised interventions or failure to heed warnings.**
- **Be careful when touching the tubular drive, as it heats up during operation for technical reasons.**
- **Before installation, shut down all lines and control devices that are not essential for operation.**
- **Crushing or shearing points must be avoided or protected.**
- **When installing the drive, all-pole disconnection from the mains with a contact gap of at least 3 mm per pole must be provided (EN 60335).**
- **If the mains connecting cable is damaged, it may only be replaced by the manufacturer. If the drive has a plug-in connecting cable, it must be replaced with the same type of mains connecting cable, which is available from the drive manufacturer.**

Attention

Safety instructions for avoiding property damage.

- **Ensure that there is adequate clearance between moving parts and adjacent objects.**
- **The drive must not be carried by the mains connecting cable.**
- **All latching connections and fastening screws on the brackets must be checked to ensure that they are secure.**
- **Ensure that nothing rubs against the tubular drive, such as shading solution attachments, screws, etc.**
- **The drive must be fitted horizontally.**

Intended use

The type of tubular drive described in these instructions is intended solely for the operation of sun protection systems with locking system. To function properly, these tubular drives need a fixed stop in the upper limit position (retracted sun protection). It may only be used in networked systems if all the individual drives are exactly synchronised and reach the limit positions at the same time.

When mounting connection parts on the drive dia. 35 mm PXX/XX, only use screws EJOT Delta PT 40x12 WN 5454 Torx (9900 000 545 4).

For roller shutter applications, please use only the types of tubular drive designed for this purpose.

This type of tubular drive is designed for use in single systems (one drive per barrel).

The tubular drive must not be used in potentially explosive areas.

The connecting cable is not suitable for transporting the drive. Always carry the drive by the housing tube.

Other applications, uses and modifications are not permitted in order to protect the safety of the users and others, since these actions can impair the system's safety and carry the risk of personal injury and property damage. The drive manufacturer does not accept liability for damages or injury arising from such actions.

Always observe the information in these instructions when operating or repairing the system. The drive manufacturer does not accept liability for damage or injury resulting from improper usage.

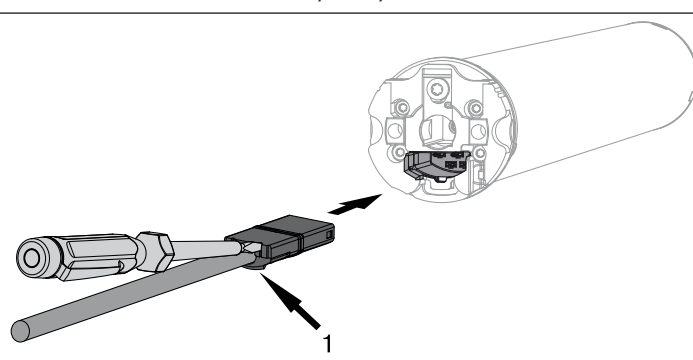
Assembling and disassembling the plug-in connecting cable



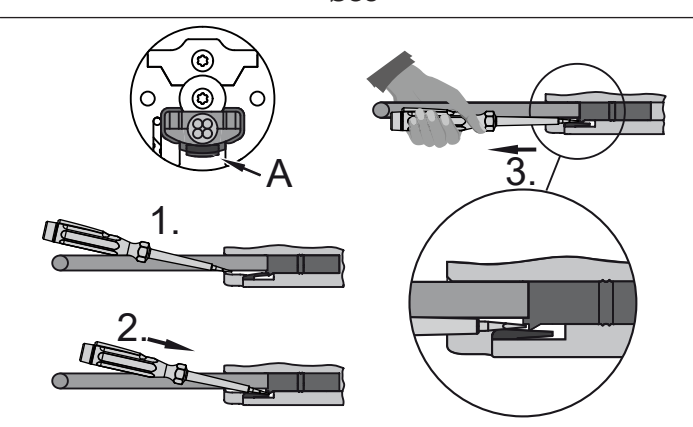
Caution

The power supply to the connecting cable must be disconnected prior to assembly/disassembly.

Assembling the plug-in connecting cable

<p style="text-align: center;">Ø35/Ø45/Ø58</p>  <p>1 = locating lug</p>	<p>Insert the dead connecting cable into the drive head until the locating lug clicks into place in the drive. If necessary, use a suitable flathead screwdriver to assist with insertion. Set the screwdriver into one of the two plug grooves provided for this purpose.</p> <p>Check that the cable is properly engaged.</p>
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Disassembling the plug-in connecting cable for tubular drives

<p style="text-align: center;">Ø35</p>  <p>A = snap-in pin</p>	<p>Insert a suitable flathead screwdriver between the locating lug and the snap-in pin, so that the snap-in pin releases the locating lug from the plug.</p> <p>Now you can pull out the connecting cable along with the flat-head screwdriver.</p>
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Ø45/Ø58	<p>Insert a suitable flathead screwdriver right into the recess of the locating latch, so that the latch releases the locating lug from the plug.</p> <p>Now you can pull out the connecting cable along with the flat-head screwdriver.</p>
A = locating latch	

Assembly

Assembling the drive

Attention

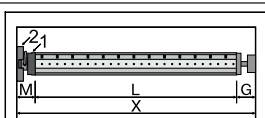
To connect the drive to the driven part, solely mechanical accessory components made by the drive manufacturer from the current product catalogue may be used.

Prior to mounting, the fitter must ensure that the masonry and the system being motorised are sufficiently robust (drive torque plus weight of the shading solution).



Caution

Electrical connections may only be carried out by a qualified electrician. Prior to assembly, the power supply must be disconnected and secured. Please give the enclosed connection information to the responsible electrical contractor.

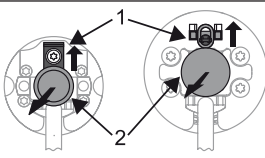


Calculate the space required at the side (M) by measuring the drive head (1) and wall bracket (2). The clear dimension of the box (X) minus the space required at the side (M) and idler (G) gives the length (L) of the barrel: $L = X - M - G$.

The space required at the side (M) varies depending on the combination of drive and wall bracket.

Then mount the wall bracket and idler. Ensure that the barrel is aligned at right angles to the wall and that sufficient axial play is allowed for the mounted system.

Assembling and disassembling the mounting pin

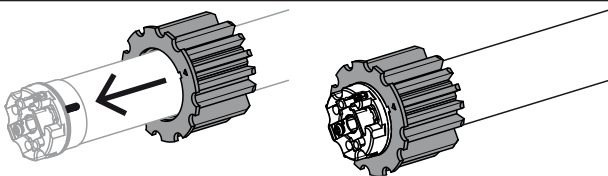


Ø45, Ø58

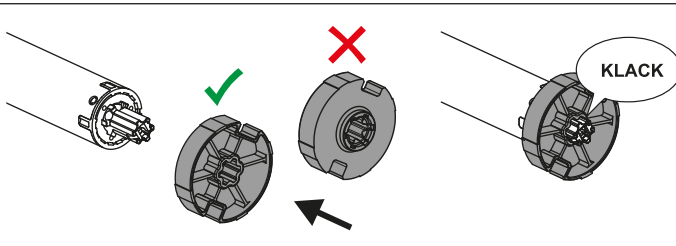
When pushed in, the mounting pin (2) locks automatically. To undo the mounting pin (2), push the tab washer (1) upwards and pull out the mounting pin (2).

Assembling and disassembling the drive adapter

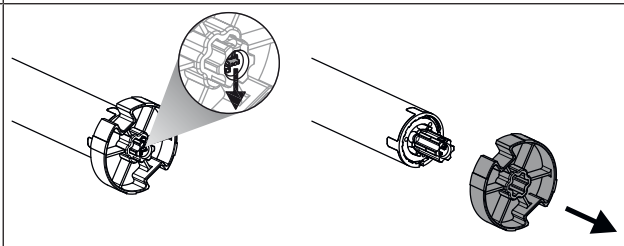
Fitting the ring onto the thrust ring



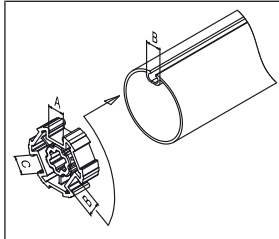
Assembling the drive adapter with safety catch on the drive shaft



Disassembling the drive adapter with safety catch on the drive shaft

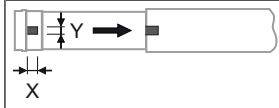


Mounting the drive in the tube



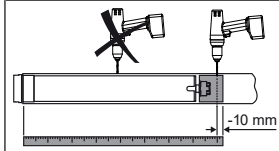
For profile shafts:

In the case of some drive adapters, tolerances of the groove widths in different barrels can be offset by rotating the drive adapter into a different groove recess. These groove recesses have different sizes and allow the drive to fit exactly.



For round shafts:

Measure the lug of the thrust ring (X, Y). Then notch the tube on the motor side, so the lug of the thrust ring can also be pushed into the shaft. There must be no play between the lug of the thrust ring and the shaft.



To ensure secure torque transmission for **round shafts**, we recommend screwing the drive adapter to the shaft (see the table below).

Attention! When drilling into the barrel, never drill near the tubular drive!

Size of drive [mm]	Drive adapter	Torque max. [Nm]	Fastening screws (4 units)
dia. 35-dia. 45	All	Up to 50	Self-tapping screw dia. 4.8 x 9.5 mm
dia. 58	Aluminium drive adapter	Up to 120	Countersunk screw M8 x 16 mm
dia. 58	Diecast drive adapter	Up to 120	Self-tapping screw dia. 6.3 x 13 mm

We also recommend screwing the idler to the barrel.

Attention

Do not hammer the tubular drive into the tube or drop it into the barrel!



Assemble the tubular drive with the relevant ring (1) and drive adapter (2). If the ring has several grooves, select the groove which is a perfect fit and push the ring (1) onto the thrust ring.

Insert the tubular drive with the pre-assembled ring (1) and drive adapter (2) into the tube to achieve a form fit. Ensure that the ring and drive adapter are secure in the tube.

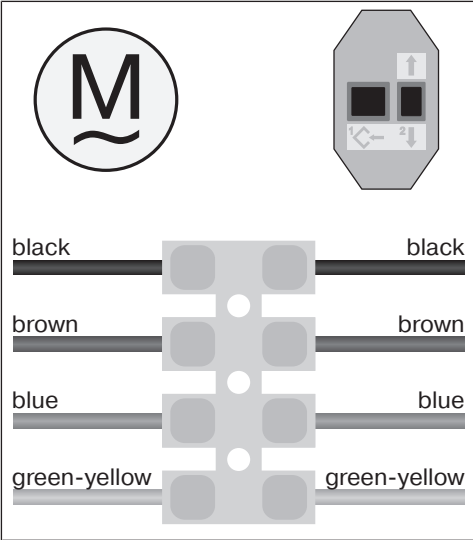
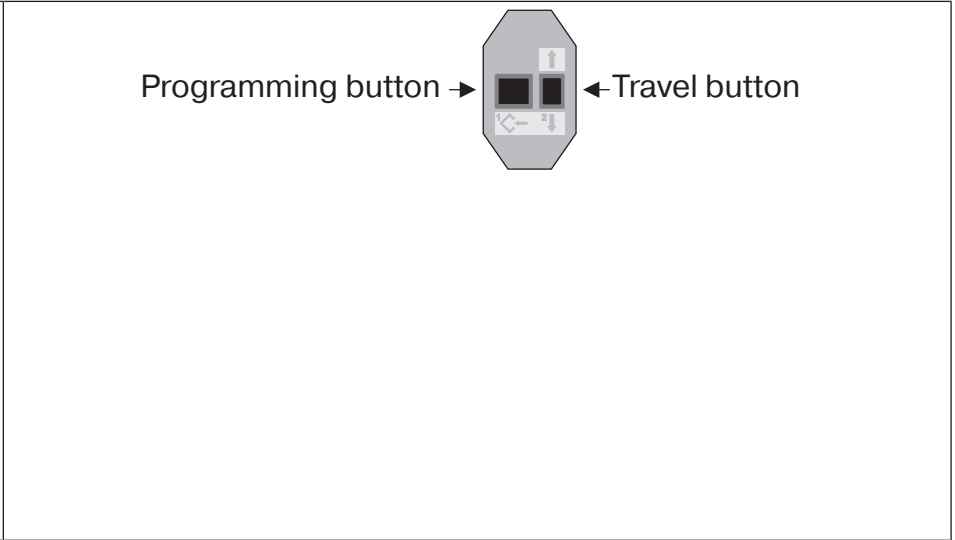


Mount the assembled unit comprising shaft, tubular drive and idler on the box and secure the drive with a splint or spring pin according to the type of wall bracket fixing.



Lay the connecting cable

Lay the connecting cable up to the tubular drive, and fix. The connecting cable must not project into the winding chamber. The exterior antenna, if present, must not be shortened or damaged under any circumstances and must not project into the winding space. Cover any sharp edges.

Setting the limit positions using the programming unit

 <p>black</p> <p>black</p> <p>brown</p> <p>brown</p> <p>blue</p> <p>blue</p> <p>green-yellow</p> <p>green-yellow</p>	 <p>Programming button →</p> <p>← Travel button</p>
	Unlocked
	Locked
Locking bolt	Moving part of the locking system on the front section of the sun protection system
Bolt mechanism	Fixed part of the locking system in the guide track of the sun protection system

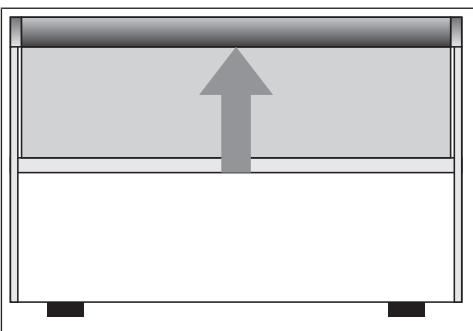
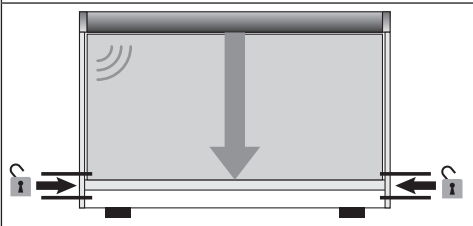
Connect the wires of the tubular drive to those of the same colour in the programming unit (Item No. 4935 200 011 0) and switch on the power supply.

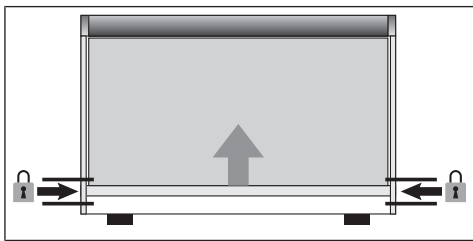
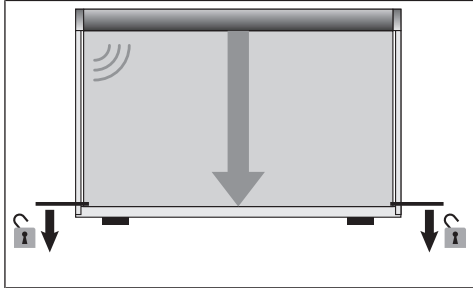
Attention

The tubular drives are designed for short-time operation (S2/KB 4 min). An inbuilt thermal protection switch prevents overheating of the tubular drive. During commissioning (long drop distance or long running time), the thermostat may trigger. The drive will switch off. After a short cooling-down period, the system is ready for operation again. The drive does not achieve its full duty cycle until it has cooled to ambient temperature. Avoid a situation where the thermal protection switch cuts in repeatedly.



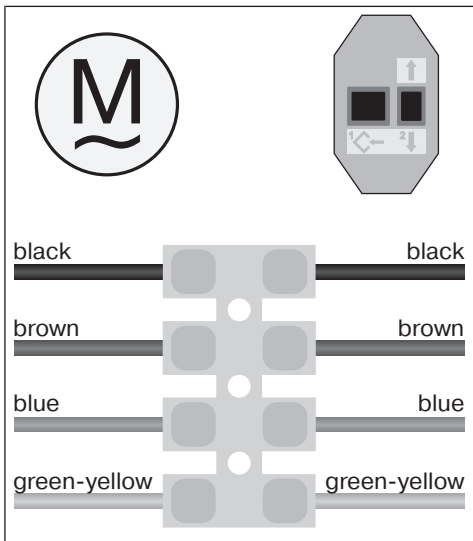
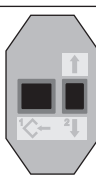



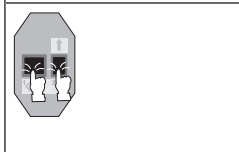

If the tubular drive switches off prematurely while opening, due to an obstruction, the obstruction can be cleared by closing the screen and removing the obstruction. The upper limit position can be set by opening again.

	<p>First, press the travel button to retract to the upper limit position, until the tubular drive switches itself off.</p>
	<p>Run the bolt past the locking point and stop the tubular drive. Then press the programming button.</p> <ul style="list-style-type: none"> ▷ The locking limit position is now saved and the tubular drive makes a "click" sound to confirm.


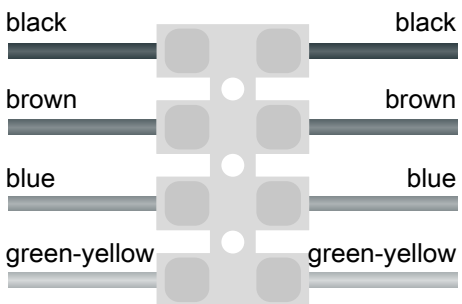


	<p>Use the travel button to run the bolt in the open direction until it is engaged by the bolt mechanism.</p> <ul style="list-style-type: none"> ▶ The tubular drive switches off automatically.
	<p>Use the travel button to run the bolt in the down direction and disengage it from the bolt mechanism, then stop the tubular drive. Then press the programming button.</p> <ul style="list-style-type: none"> ▶ The unlocking limit position is now saved and the tubular drive makes a "click" sound to confirm. ▶ Limit positioning is now complete. <p>The sun protection system will now lock and unlock automatically in the lower limit position when you close and open it.</p>

Deleting the limit positions using the programming unit

i Connect the wires of the tubular drive to those of the same colour in the programming unit and switch on the power supply.
Please pause for 1 sec after the last drive command before beginning the deletion sequence. Also leave a pause of 1 sec between the individual steps of the deletion sequence.

	<p style="text-align: center;">Programming button →  ← Travel button</p>
	<p>Press the programming button and keep it pressed.</p>
	<p>Then press down the travel button and keep it pressed.</p>
	<p>Now release the programming button, but continue to keep the travel button pressed.</p>
	<p style="text-align: center;"> 2x</p> <p>Next press the programming button again.</p> <ul style="list-style-type: none"> ▶ The tubular drive acknowledges. ▶ Both limit positions are deleted.

Adjusting the limit positions with a rotary switch or a locking button

	
	
	Unlocked
	Locked
Locking bolt	Moving part of the locking system on the front section of the sun protection system
Bolt mechanism	Fixed part of the locking system in the guide track of the sun protection system

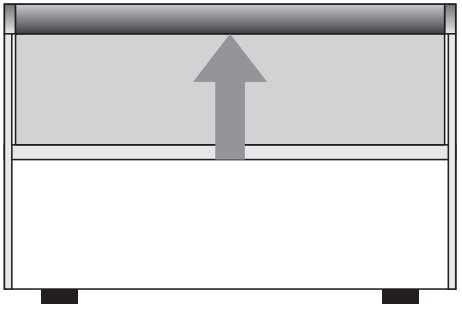
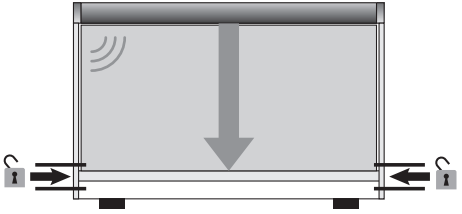


Connect the wires of the tubular drive to those of the same colour in the rotary switch or a locking button and switch on the power supply.

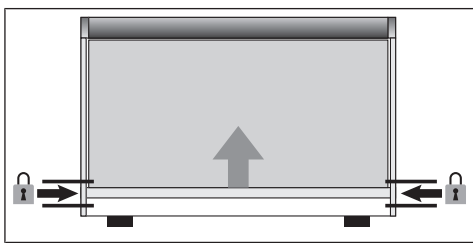
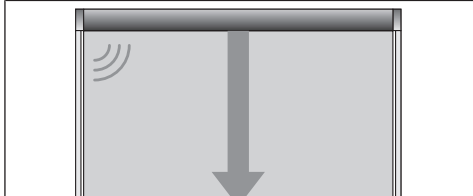
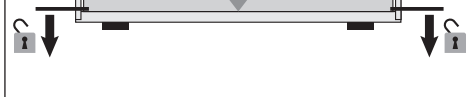



Attention

The tubular drives are designed for short-time operation (for the operating mode, please see technical data). An inbuilt thermal protection switch prevents overheating of the tubular drive. During commissioning (long drop distance or long running time), the thermostat may trigger. The drive will switch off. After a short cooling-down period, the system is ready for operation again.

The drive does not achieve its full duty cycle until it has cooled to ambient temperature. Avoid a situation where the thermal protection switch cuts in repeatedly.

i If the tubular drive switches off prematurely while opening, due to an obstruction, the obstruction can be cleared by closing the screen and removing the obstruction. The upper limit position can be set by opening again.

	<p>Firstly, travel to the lower upper position until the tubular drive switches off automatically.</p>
	<p>Run the bolt past the locking point and stop the tubular drive. Carry out the following sequence without interruption between the individual drive commands.</p> <ul style="list-style-type: none"> ▷ The locking limit position is now saved and the tubular drive makes a "click" sound to confirm.
	<p>1 s 1 s until STOP and hold until</p>
	

	<p>Use the travel button to run the bolt in the open direction until it is engaged by the bolt mechanism.</p> <ul style="list-style-type: none"> ▷ The tubular drive switches off automatically.
	<p>Run the bolt in the down direction and disengage it from the bolt mechanism, then stop the tubular drive. Carry out the following sequence without interruption between the individual drive commands.</p> <ul style="list-style-type: none"> ▷ The unlocking limit position is now saved and the tubular drive makes a "click" sound to confirm.
	<p>  1 s  1 s  until STOP and hold until (M) 1x </p>
	<p>Limit positioning is now complete.</p> <p>The sun protection system will now lock and unlock automatically in the lower limit position when you close and open it.</p>

Deleting the limit positions with a rotary switch or a locking button

i The switching commands sequence must be carried out in quick succession. Any additional functions that have been set are retained.

Carry out the following deletion sequence without interruption between the individual drive commands:

 1 s
 1 s
 1 s
 1 s
 1 s
 1 s
 1 s
 until
(M) 2x
 STOP

The tubular drive makes a "click click" sound to confirm.

Both limit positions are deleted.

Activating/deactivating the additional fabric untensioning function with the programming unit

On delivery, the fabric untensioning function is deactivated. To activate it, move to the upper limit position. Press the programming button for approx. 5 seconds. The drive moves a short distance out of the limit position and back again. The fabric untensioning function is now active.

Repeat the procedure to deactivate it.

Information for the electrician

Tubular drives with electronic limit switching can be connected in parallel. The maximum switching contact load of the switching equipment (timer, relay control, switch, etc.) must be observed. To operate drives with electronic limit switching, only use switching elements (timers) that are **not** earthed via the drive. The outputs of the switching element must be potential-free in the neutral position.

Use external conductor L1 to control the up and down direction. Other devices or consumers (lamps, relays, etc.) must not be directly connected to the drive connecting cables. For this purpose, the drives and additional devices must be decoupled by relay controls.

When installing the drive, all-pole disconnection from the mains with a contact gap of at least 3 mm per pole must be provided.

Attention

Only use mechanically or electrically locked switching elements with a marked zero position! This also applies when drives with electronic and mechanical limit switching are used in the same system. The changeover time for switching the running direction must be at least 0.5 s. The switch and control must not execute simultaneous UP and DOWN commands. Protect the electrical connections from damp.

Once you have finished wiring everything to the control, ALWAYS check the right direction assignment of the drive to the control buttons UP and DOWN, EXTEND and RETRACT.

If the drive is to be operated with devices which contain sources of interference, the electrician must ensure suitable interference suppression for the relevant devices.

Disposal



The crossed-out bin symbol on the product indicates that the device is subject to mandatory disposal separate from household waste. This product must be handed over to a collection point for electrical and electronic equipment at the end of its service life. The packaging material must be disposed of properly.

Maintenance

These drives are maintenance-free.

Technical data dia. 35

Tubular drive	P5-20	P9-16
Model	E16	
Type	C SE I2	
Rated torque [Nm]	5	9
Output speed [rpm]	20	16
Limit switch range	64 revolutions	
Supply voltage	230 V AC / 50 Hz	
Connected load [W]	115	110
Rated current consumption [A]	0.47	0.47
Operating mode	S2 4 min	
Degree of protection	IP 44	
Min. tube inside diameter [mm]	37	
Emission sound pressure level [dB(A)]	≤ 70	

Technical data dia. 45

Tubular drive	R8-17	R12-17	R20-17	R30-17	R40-17
Model	E16				
Type	C SE I2				
Rated torque [Nm]	8	12	20	30	40
Output speed [rpm]	17	17	17	17	17
Limit switch range	64 revolutions				
Supply voltage	230 V AC / 50 Hz				
Connected load [W]	100	110	160	205	260
Rated current consumption [A]	0.45	0.50	0.75	0.90	1.15
Operating mode	S2 4 min				
Degree of protection	IP 44				
Min. tube inside diameter [mm]	47				
Emission sound pressure level [dB(A)]	≤ 70				

Technical data dia. 58

Tubular drive	L50-17	L70-17	L80-11	L80-17*
Model	E16			
Type	C SE I2			
Rated torque [Nm]	50	70	80	80
Output speed [rpm]	17	17	11	17
Limit switch range	64 revolutions			
Supply voltage	230 V AC / 50 Hz			
Connected load [W]	315	430	310	470
Rated current consumption [A]	1.40	1.90	1.40	2.10
Operating mode	S2 4 min			
Degree of protection	IP 44			
Min. tube inside diameter [mm]	60			
Emission sound pressure level [dB(A)]	≤ 70			

Tubular drive	L100-11	L120-11
Model	E16	
Type	C SE I2	
Rated torque [Nm]	100	120
Output speed [rpm]	11	11
Limit switch range	64 revolutions	
Supply voltage	230 V AC / 50 Hz	
Connected load [W]	354	435
Rated current consumption [A]	1.56	1.90
Operating mode	S2 4 min	
Degree of protection	IP 44	
Min. tube inside diameter [mm]	60	
Emission sound pressure level [dB(A)]	≤ 70	

*) This tubular drive is not yet available.

What to do if...?

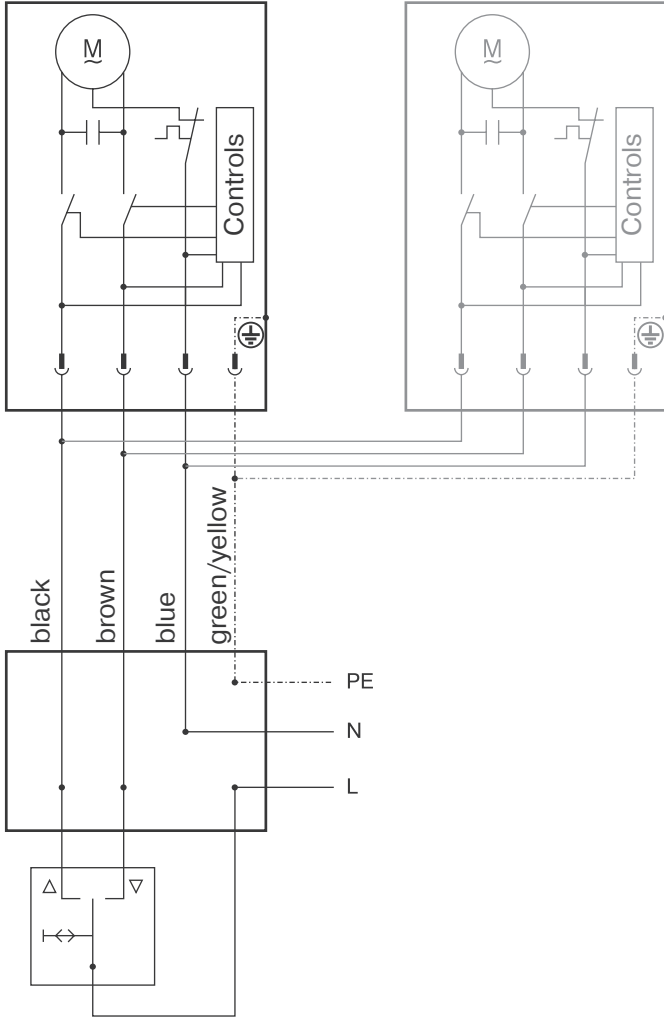
Problem	Remedy
Tubular drive overruns the limit position or does not reach the set limit position.	Repair system; delete limit positions, then reprogram limit positions.
	Check electrical installation, remove external devices, delete limit positions and then reset limit positions.
Tubular drive stops arbitrarily; cannot be restarted in the same direction.	Tubular drive is overloaded. Use a higher-torque tubular drive.
	Ensure that the system runs smoothly.
Tubular drive does not run in the right direction.	Tubular drive is overheated. The tubular drive is operational again after a few minutes.
	Tubular drive is faulty (does not run even after standing still for a long period of time). Replace the tubular drive.
	Clear and remove the obstruction and set the drive in the direction required.
	Check the electrical connection.
Tubular drive only runs for approx. 1 second.	Tubular drive is faulty. Replace the tubular drive.

Sample wiring diagram



The assignment of the black and brown wires according to the direction of travel is dependant on how the drive is installed (mounted to the right or to the left).

Controlling one/several drive(s) via a single switch/button



Declaration of conformity

BECKER-ANTRIEBE GMBH
Friedrich-Ebert-Str. 2 – 4
35764 Sinn, Germany



BECKER

- Original -

EU Declaration of Conformity

Document No.: **5100 310 005 0**

We hereby declare that the following product series

Product designation: **Tubular motor**

Type designation: **P3/30.., P4/16.., P4/17.., P5/16.., P5/30.., P5/20.., P9/16.., P13/9.., R4/17.., R7/17.., R7/85.., R8/17.., R12/11.., R12/17.., R15/17.., R20/11.., R20/17.., R25/17.., R30/11.., R30/17.., R40/11.., R40/17.., R50/3,5.., R50/11.., L44/14.., L50/11.., L50/17.., L60/11.., L60/17.., L70/17.., L80/11.., L80/17.., L100/11.., L120/11..**

Version: **C, EVO, M, HK, R, S, F, P, E, O, SMI, A0...Z9, mute, +**

From serial number: **from 232300001**

complies with the applicable regulations of the following Directives:

Directive 2006/42/EC (MD) L157, 09.06.2006

Directive 2014/30/EU (EMC) L96, 29.03.2014

Directive 2011/65/EU (RoHS) L174, 01.07.2011

Furthermore, the safety objectives of the **Low Voltage Directive 2014/35/EU** as per Appendix I No.1.5.1 of Directive 2006/42/EC have been met.

Applied standards:

DIN EN 60335-1:2020

DIN EN 60335-2-97:2017

EN 61000-6-1:2019

EN 61000-6-3:2022

EN 14202:2004

Authorised party for the compilation of the technical documentation:

Becker-Antriebe GmbH, Friedrich-Ebert-Str. 2 – 4, 35764 Sinn, Germany

This declaration of conformity was issued:

Sinn, 02.06.2023

Place, Date

Maik Wiegemann, Management

This declaration certifies compliance with the Directives cited but does not represent any assurance of characteristics. The safety warnings in the supplied product documentation must be observed!

CE Antriebe M+E_ 5100 310 005 0 _de

For UK-Markets:

The Declaration of Conformity can be provided upon request from Becker Motors Ltd., or can be downloaded on www.beckermotors.co.uk.

**UK
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