P5/16C PR+...R40/17C PR+; P3/30C PS...L120/11C PS(+) Version: SMI

en Assembly and Operating Instructions

SMI-Rohrantriebe

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:

PR+SMI

- · Ideal for use with roller shutters
- Installation possible without stops (from lower point to upper point)
- · Simple to set the limit position by pressing a button on the programming unit
- · Automatic detection of limit positions thanks to intelligent electronic system with stop systems
- · Secure anti-lifting device
- · Slight pressure applied to the roller shutter curtain makes it difficult to raise or reach underneath
- suitable for rigid aluminium, steel and wooden profiles
- · Obstruction detection in down direction when using suspension springs and anti-lifting device
- · Blockage detection in upwards direction (e.g., end strip frozen to the window sill)
- The limit positions do not have to be reset: Changes in the shading solution are accommodated automatically when using stop systems.
- · Drive puts the roller shutter curtain under low tensile load
- · Considerably lower stop load, and thus considerably lower shading solution load.
- · Several drives can be operated in parallel
- Suitable for all KNX/SMI actuators made by the drive manufacturer.
- For plug-in connecting cable

PS(+)SMI

- · Optimised for sun protection applications
- Installation without stops is possible (from extended point to retracted point)
- · Automatic detection of limit positions thanks to intelligent electronic system with stop systems
- The limit positions do not have to be reset: Changes in the shading solution are accommodated automatically when using stop systems.
- · Simple to set the limit position by pressing a button on the programming unit
- Suitable for awnings, cassette awnings, screens, drop-arm awnings and conservatory shades. Type "+" drives are specially
 designed for cassette awnings
- · Considerably lower stop load, and thus considerably lower shading solution load.
- · Several drives can be operated in parallel
- · Smooth operation of the system and the drive increases the service life
- Suitable for all KNX/SMI actuators made by the drive manufacturer.
- · For plug-in connecting cable

Please observe these Assembly and Operating Instructions when installing and setting up the equipment. 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: 24th calendar week in 2012

Ser. No.:	1224XXXXX
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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.
i		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

- All work, including maintenance and cleaning, on electrical installations as well as other system parts must always be performed by authorised specialists, 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.
- Stop and disconnect the equipment from the mains power supply when maintenance and cleaning is being performed either on the system itself or in the immediate vicinity of it.
- 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

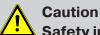
the drive manufacturer.

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 authorised specialists, 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 control devices within sight of the driven product, but away from moving parts, at a height of over 1.5 m.
- 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.
- Moving parts of drives must be installed at a height of over 2.5 m above floor level or any other surface from which access to the drive is gained.
- 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.



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 technological 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 drive mains connecting cable is damaged, 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.

Intended use

PR+SMI	PS(+)SMI
The PR+SMI type of tubular drive described in these instruc- tions is intended solely for the operation of roller shutters. This type of tubular drive supports not only curtain attachment by means of springs but also mechanical anti-lifting devices (e.g., Zurfluh-Feller, Simu, GAH Alberts and Deprat). These are detected automatically.	The PS(+)SMI type of tubular drive described in these instruc- tions is intended solely for the operation of awnings, screens and conservatory shades. It may only be used in networked systems if all the individual drives are exactly synchronised and reach their limit positions at the same time.
For sun protection applications, please use only the types of tu- bular drive designed for this purpose.	The "+" type of tubular drive has been designed particularly for the operation of cassette awnings with a higher requirement for closing torque (clean closure of the cassette).
	For roller shutter applications, please use only the types of tu- bular 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.

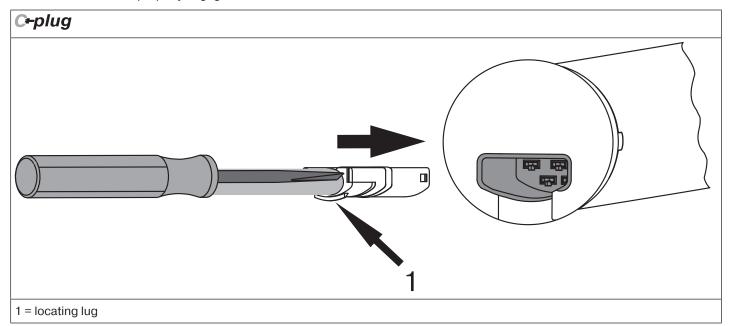
Attention

Only use anti-lifting devices if the roller shutter laths are sufficiently strong. The closed curtain must not project beyond the guide tracks or else there is a risk of the joint between the top two laths being subjected to excessive strain and getting damaged.

Assembling and disassembling the plug-in connecting cable

Assembling the plug-in connecting cable

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. Check that the cable is properly engaged.



Disassembling the plug-in connecting cable for tubular drives dia. 35.

Caution Prior to disassembly, the power supply to the connecting cable must be disconnected.

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.

Now you can pull out the connecting cable along with the flathead screwdriver.

dia. 35	C-plug
	2
A = snap-in pin	



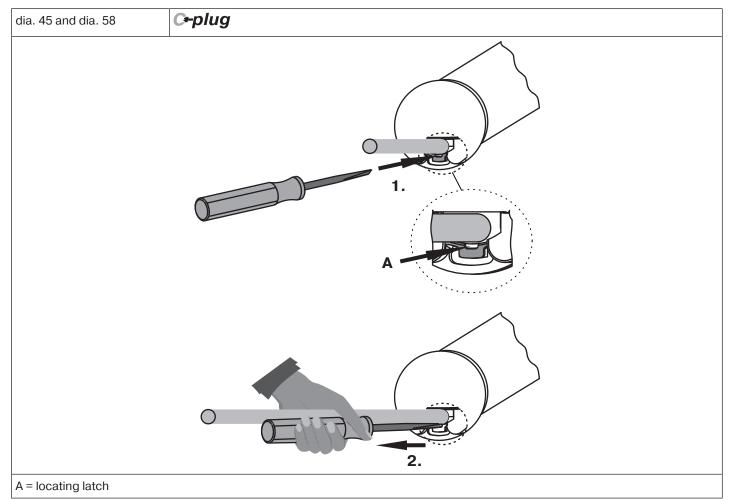
BECKER

Disassembling the plug-in connecting cable for tubular drives dia. 45 and dia. 58

Caution Prior to disassembly, the power supply to the connecting cable must be disconnected.

Insert a suitable flathead screwdriver right into the recess of the locating latch, so that the latch releases the locating lug from the plug.

Now you can pull out the connecting cable along with the flathead screwdriver.



Installation

Assembling the drive

Attention

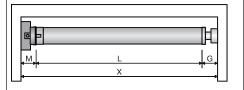
To connect the drive to the driven part, solely mechanical accessory components made by the drive manufacturer from the current product catalogue may be used.

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 and wall bracket. 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.

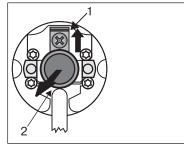
The space required at the side (M) varies depending on the combination of drive and wall bracket.

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.

Attention

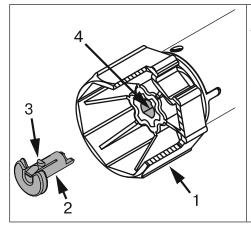
For PR+SMI When using anti-lifting devices, closed brackets must be fitted. The tubular drive presses the closed curtain down to make it difficult for people to reach under it or raise it. Only use curtains made of sufficiently strong material, such as aluminium, steel or wood. To prevent damage to the curtain it must run in guide tracks from top to bottom.

Undoing the mounting pin



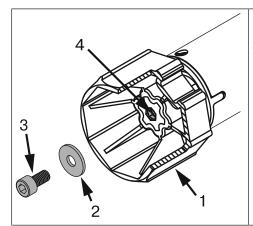
When pushed in, the mounting pin (2) locks automatically. To undo the mounting pin (2), push the tab washer (1) upwards and pull out the mounting pin (2).

Assembling the drive adapter with drive adapter safety catch



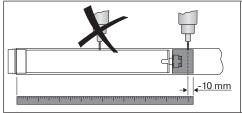
Put the drive adapter (1) onto the drive shaft of the tubular drive. You can see which way to insert the safety catch (2) from its shape. When inserting the drive adapter safety catch (2) into the hole (4), make sure that the locking lug (3) engages. You will hear a click. Check that the safety catch is securely in position by pulling on the drive adapter (1).

Assembling the drive adapter with screw connection



Put the drive adapter (1) onto the drive shaft of the tubular drive. For the assembly, use an M6 x 12 screw (3) with appropriate washer (2) and suitable screw retainer. Threaded hole (4)

Securing the drive against axial displacement



In order to secure the drive against axial displacement, we recommend screwing the drive adapter to the tube.

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





Fixing the drive adapter to the barrel dia. 35 and dia. 45 and dia. 58

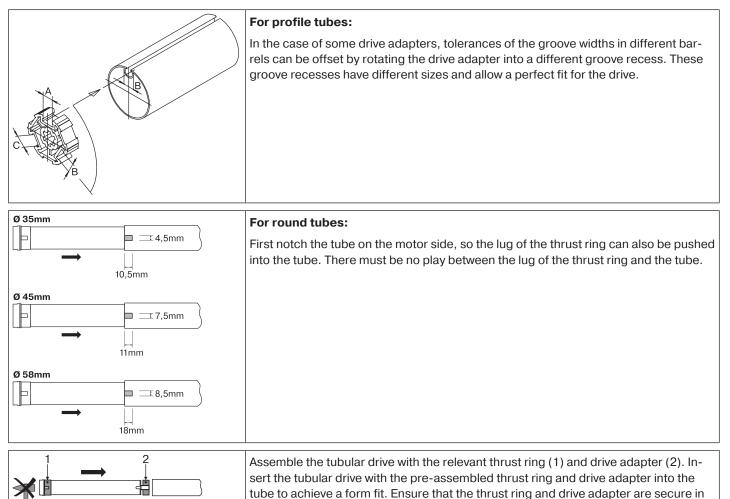
Size of drive [mm]	Diameter of barrel [mm]	Torque max. [Nm]	Fastening screws for drive adapter (4 pc.)
dia. 35	40 mm plastic drive adapter	13	Self-tapping screw
			dia. 4.8 x 9.5 mm
dia. 45	50 - 70 mm plastic drive adapter	25	Self-tapping screw
			dia. 4.8 x 9.5 mm
dia. 45	50 - 85 mm plastic drive adapter	40	Self-tapping screw
	for obstacle detection		dia. 4.8 x 9.5 mm
dia. 45	50 - 85 mm diecast drive adapter	50	Self-tapping screw
			dia. 4.8 x 9.5 mm
dia. 58	85 - 133 mm aluminium drive adapter	120	Countersunk screw
			M8 x 16 mm
dia. 58	63 - 120 mm diecast drive adapter	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! The curtain can only be secured using springs or rigid shaft connectors.

Mounting the drive in the tube



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

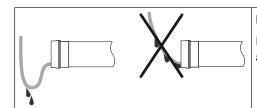
the tube.

Position the barrel so that the roller shutter curtain can be attached with springs or fit the rigid shaft connectors in accordance with the manufacturer's instructions.



For PR+SMI

When employing springs/anti-lifting devices, we recommend the use of at least three; for longer tubes, use three springs/anti-lifting devices per metre of barrel.

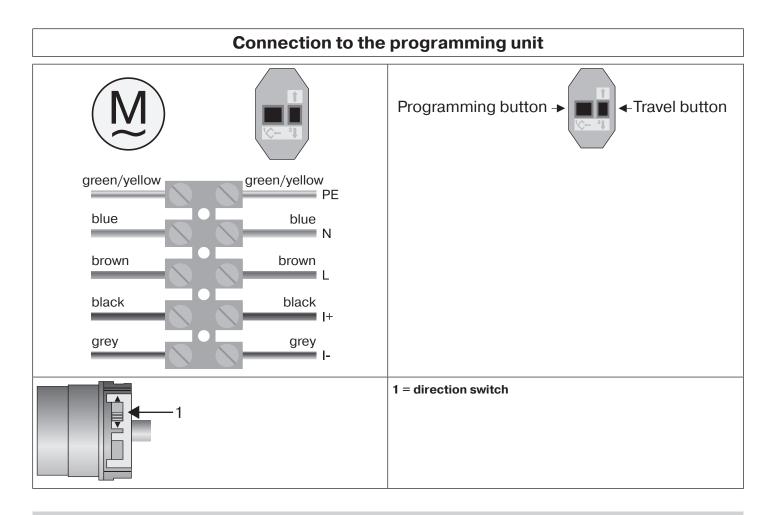


Lay the connecting cable

Lay the connecting cable up to the tubular drive, and fix The connecting cable and any antennae must not project into the winding chamber. Cover any sharp edges.

Attention

If the allocation table for the SMI tubular drives is incorrect or not available, commissioning of the KNX/SMI actuator is not possible.



Attention The programming unit is only designed for the commissioning, not for continuous operation.

Connect the wires of the tubular drive to those of the same colour in the programming unit (Item No. 4935 200 034 0) and switch on the power supply.



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Adjusting the PR+SMI limit positions

Switch the direction switch (1) to the opposite position.

The running direction will now have changed.

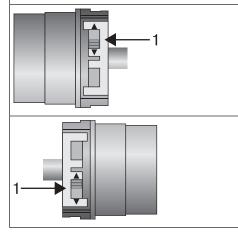
Check the assignment of the direction of rotation before positioning the limit stops.

Press the UP or DOWN button

- ▶ The shading solution runs in the desired direction.
- ► The running direction is OK.

If the shading solution runs in the wrong direction, the running direction must be switched. Proceed as follows:

Check the running direction again.



It is only possible to change the direction of rotation if no limit position has been set. It may be necessary to delete both limit positions in order to change the direction of rotation.

There are 4 ways to set the limit positions:

- Lower point to upper point (not the stops)
- Lower point to upper stop
- · Anti-lifting device in the lower limit position to upper stop

• Anti-lifting device in the lower limit position to upper point without stop (only with the programming unit) The limit position becomes fixed after the tubular drive has turned off automatically in the desired position three times.

If the tubular drive switches off prematurely while opening or closing, due to an obstruction, the obstruction can be cleared by reversing a short way and removing the obstruction. The desired limit position can be set by opening/closing again. i

There is no shading solution length adjustment with this limit position setting.

	Close to the desired lower limit position.
ي ال	Press the programming button of the programming unit for 3 seconds. ▷ The tubular drive makes a "click" sound to confirm.
	Then move to the desired upper limit position.
ي ال	 Press the programming button of the programming unit for 3 seconds. The tubular drive makes a "click" sound to confirm. The limit positions are now set.

Lower point to upper stop

	Close to the desired lower limit position.
<u>ب</u>	Press the programming button of the programming unit for 3 seconds. The tubular drive makes a "click" sound to confirm.
	 Then open as far as the permanent upper stop. The tubular drive switches off automatically. The limit positions are now set.

Anti-lifting device in the lower limit position to upper stop

Move down to the lower limit position. The tubular drive switches off automatically.
Then open as far as the permanent upper stop.
The tubular drive switches off automatically.
 The limit positions are now set.



Anti-lifting device in the lower limit position to upper point without stop

		Move down to the lower limit position.
		Then move to the desired upper limit position.
	و ال	 Press the programming button of the programming unit for 3 seconds. The tubular drive makes a "click" sound to confirm. The limit positions are now set.

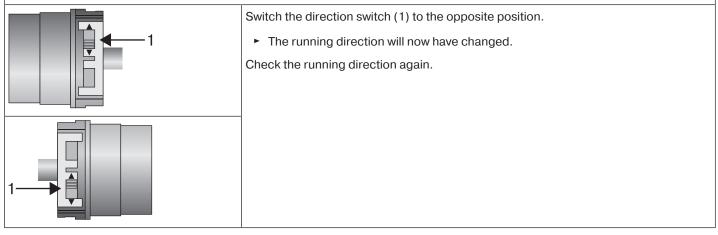
Adjusting the PS(+)SMI limit positions

Check the assignment of the direction of rotation before positioning the limit stops.

Press the retract or extend button.

- ▷ The shading solution runs in the desired direction.
- ► The running direction is OK.

If the shading solution runs in the wrong direction, the running direction must be switched. Proceed as follows:



It is only possible to change the direction of rotation if no limit position has been set. It may be necessary to delete both limit positions in order to change the direction of rotation.

There are 2 ways to set the limit positions:

- Extended position to retracted position without stop
- Extended position to retracted stop

The limit position becomes fixed after the tubular drive has turned off automatically in the desired position three times.

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

There is no shading solution length adjustment with this limit position setting.

	Open to the desired extended limit position.
الا	Press the programming button of the programming unit for 3 seconds. The tubular drive makes a "click" sound to confirm.
	Then open to the desired retracted limit position.
ولا	 Press the programming button of the programming unit for 3 seconds. The tubular drive makes a "click" sound to confirm. The limit positions are now set.

Extended position to retracted stop

	Open to the desired extended limit position.
<u>ب</u>	Press the programming button of the programming unit for 3 seconds. The tubular drive makes a "click" sound to confirm.
	 Then close to the permanent upper stop. ▷ The tubular drive switches off automatically. ▶ The limit positions are now set.



Deleting the limit positions using the programming unit

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.

Deleting a limit position when 2 limit positions are programmed

	Programming button
green/yellow PE blue blue N brown brown L black black I+ grey grey I-	
	Open/close to the limit position to be deleted.
	Press the programming button and keep it pressed.
	Then press down the travel button and keep it pressed.
	Now release the programming button, but continue to keep the travel button pressed.
	 Next press the programming button again. P The tubular drive makes a "click click" sound to confirm. The limit position is now deleted.

Deleting both limit positions

Open/close the shading solution to a point between the limit positions.
Press the programming button and keep it pressed.
Then press down the travel button and keep it pressed.
Now release the programming button, but continue to keep the travel button pressed.
 Next press the programming button again. The tubular drive makes a "click click" sound to confirm. Both limit positions are deleted.



What to do if...?

Problem	Cause	Remedy			
The roller shutter curtain is raised un- evenly or not at all.	 One or more attachments have broken off. Lath has broken off. 	Repair system; then re-program limit po- sitions.			
Tubular drive overruns the limit position or does not reach the set limit position.	A short circuit caused by dampness.	Repair electrical installation and re-pro- gram limit positions.			
	External devices are connected to the connecting cables of the tubular drive.	Check electrical installation; remove ex- ternal devices; reset limit positions.			
	Due to long cable, L1 and N connection have been reversed.	Swap L1 and N (N = blue, L1 = brown); re- set limit positions.			
	Stops have broken off or one or more at- tachments are broken.	Repair system; reset the tubular drive, then re-program limit positions			
Tubular drive does not retract after the extended limit position has been set.	The tubular drive wrongly continues to ex- tend and switches itself off automatically. Both limit positions are now programmed in the tubular drive.	Delete the limit positions, reprogram the outer limit position, and retract immediately.			
Tubular drive stops arbitrarily; cannot be	Tubular drive is overloaded.	Use a more powerful tubular drive.			
restarted in the same direction.	Sun protection system keeps sticking; too much friction.	Ensure that the sun protection system runs smoothly.			
	A pre-used tubular drive is installed	Delete limit positions, then re-program limit positions.			
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 work even after standing still for a long period of time).	Replace the tubular drive; carry out RE- SET with the programming button. No clicking sound (emergency program); tu- bular drive can be opened and closed for dismounting using the programming unit.			
	Tubular drive switched off the last time it went in that direction because of an ob- struction.	Clear and remove the obstruction and set the drive in the direction required.			
	Electrical connection faulty.	Check the electrical connection.			
Tubular drive only runs for approx. 5 seconds.	Tubular drive is in error mode.	Re-program limit positions.			
The tubular drive does not function prop- erly in SMI operation.	Electrical connection faulty.	Check the electrical connection.			

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 (EN 60335).

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

This product is made of various materials which must be disposed of properly. Find out about the applicable regulations on recycling or disposal for this product in your country.

The packaging material must be disposed of properly.

Technical data dia. 35					
Туре	P3/30C	P5/16C	P5/20C	P5/30C	P9/16C
	PS(+)SMI	PR+SMI	PS(+)SMI	PS(+)SMI	PR+SMI
					P9/16C
					PS(+)SMI
Rated torque [Nm]	3	5	5	5	9
Output speed [rpm]	30	16	20	30	16
Limit switch range	64 revolutions				
Supply voltage			230 V AC / 50 Hz		
Connected load [W]	85	85	115	115	110
Rated current consumption [A]	0.36	0.36	0.47	0.47	0.47
Mode	S2 4 min				
Degree of protection	IP 44				
Min. tube inside diameter [mm]	37				
Emission sound pressure level [dB(A)]	≤ 70				



		Technic	al data dia.	45		
Туре	R8/17C	R12/17C	R20/17C	R30/17C	R40/17C	R50/11C
	PR+SMI	PR+SMI	PR+SMI	PR+SMI	PR+SMI	PS(+)SMI
	R8/17C	R12/17C	R20/17C	R30/17C	R40/17C	
	PS(+)SMI	PS(+)SMI	PS(+)SMI	PS(+)SMI	PS(+)SMI	
Rated torque [Nm]	8	12	20	30	37	50
Output speed [rpm]	17	17	17	17	17	11
Limit switch range	64 revolutions					
Supply voltage	230 V AC / 50 Hz					
Connected load [W]	100	110	160	205	230	240
Rated current con- sumption [A]	0.45	0.50	0.75	0.90	1.18	1.10
Mode	S2 4 min					
Degree of protection	IP 44					
Min. tube inside dia- meter [mm]	47					
Emission sound pres- sure level [dB(A)]	≤ 70					

Technical data dia. 58

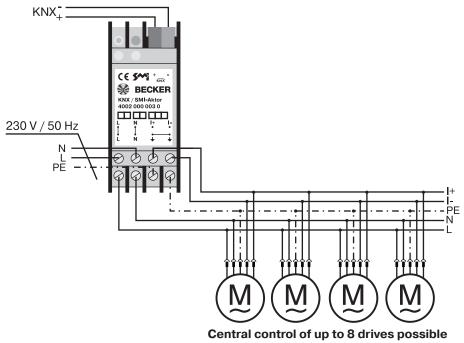
Туре	L50/17C	L60/11C	L60/17C	L70/17C		
	PS(+)SMI	PS(+)SMI	PS(+)SMI*	PS(+)SMI		
Rated torque [Nm]	50	60	60	70		
Output speed [rpm]	17	11	17	17		
Limit switch range		64 revolutions				
Supply voltage		230 V AC / 50 Hz				
Connected load [W]	315	265	380	430		
Rated current con- sumption [A]	1.40	1.20	1.75	1.90		
Mode		S2 4 min				
Degree of protection	IP 44					
Min. tube inside dia- meter [mm]	60					
Emission sound pres- sure level [dB(A)]	≤ 70					

Туре	L80/11C	L80/17C	L120/11C	
	PS(+)SMI	PS(+)SMI*	PS(+)SMI	
Rated torque [Nm]	80	80	120	
Output speed [rpm]	11	17	11	
Limit switch range		64 revolutions		
Supply voltage		230 V AC / 50 Hz		
Connected load [W]	310	470	435	
Rated current con- sumption [A]	1.40	2.10	1.90	
Mode	S2 4 min			
Degree of protection		IP 44		
Min. tube inside dia- meter [mm]	60			
Emission sound pres- sure level [dB(A)]		≤ 70		

*) This tubular drive is not yet available.

Sample wiring diagram

Controlling one/several drive(s) via a single KNX/SMI actuator



Button operation is activated by turning the power supply on and off.
 The drive permanently changes to SMI mode as soon as SMI bus voltage is detected on the I+ and I- lines.

Technical information as well as the KNX product database can be found on our homepage www.becker-antriebe.com



Assignment table for the SMI tubular drives				
Serial number of the drive (Consider applying a serial number sticker)	Place of installation	Direction of rotation as- signed / limit positions pro- grammed		

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Manufacturer's code: 2 = Becker-Antriebe GmbH

Project / customer	Room	
Signature	Signature	
Project manager / building contractor	Installing company	
This assignment table is also available to you on our website: www.becker-antriebe.com for the electronic work.		

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



- Original -

EU Declaration of Conformity

Document No./Month . Year: K001/05.16

We hereby declare that the following product series

 Product designation:
 Tubular motor

 Type designation:
 R4/17.., R8/17.., R12/17.., R15/17.., R20/17.., R25/17.., R30/17.., R40/17.., R50/11.., R40/17.. (37 Nm), R7/17.., P9/16.., P5/30.., P5/20.., P13/9.., P5/16.., P4/16.., P3/30.., L44/14.., L50/11.., L50/17.., L60/11.., L60/17.., L70/17.., L80/11.., L80/17.., L100/11.., L120/11..

Version:C, M, HK, R, S, F, P, E, O, SMI, A0...Z9, mute, +From serial number:from 161800001

complies with the applicable regulations of the following Directives:

Directive 2006/42/EC (MD) Directive 2014/30/EU (EMC) Directive 2011/65/EU (RoHS)

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:

EN 60335-1:2014 EN 60335-2-97:2015 EN 61000-6-1:2007 EN 61000-6-3:2011

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:

Detim

Sinn, 29.04.2016 Place, Date

Dipl.-Ing. Dieter Fuchs, 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!







