

P3/30...P9/16

Version: PS

en Assembly and Operating Instructions

Tubular drives for sun protection applications

Important information for:

• Fitters / • Electricians / • Users

Please forward accordingly!

These instructions must be kept safe for future reference.

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Table of contents

| | |
|--------------------------------------------------------------------|----|
| General | 3 |
| Warranty | 3 |
| Safety instructions | 4 |
| Instructions for the user | 4 |
| Instructions for installation and commissioning..... | 4 |
| Intended use | 6 |
| Installation..... | 6 |
| Assembling the drive | 6 |
| Assembling the drive adapter with drive adapter safety catch | 6 |
| Mounting the drive in the tube | 7 |
| Setting the limit positions with the switches | 8 |
| Deleting the limit positions with the switches | 9 |
| Setting the limit positions using the programming unit..... | 10 |
| Deleting the limit positions using the programming unit..... | 12 |
| Information for the electrician | 13 |
| Disposal | 13 |
| Maintenance | 13 |
| Technical data dia. 35 | 14 |
| What to do if...? | 14 |
| Sample wiring diagrams | 15 |
| Declaration of conformity | 17 |

General

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

- 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.
- Easy setting of limit positions for this shading solution by pushing a button on the programming unit or via a switch on the drive
- Suitable for awnings, screens and drop-arm awnings.
- Considerably reduced stop load, and thus considerably reduced shading solution load
- Left or right hand installation
- 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

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: 34th calendar week in 2020

| | |
|-----------|-----------|
| Ser. No.: | 2034XXXXX |
|-----------|-----------|

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 awnings, screens and drop-arm awnings.

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 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.

Installation

Assembling the drive

Attention

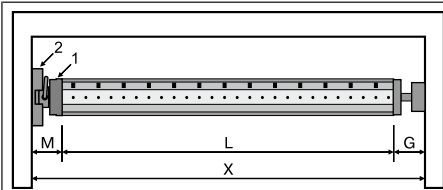
To connect the drive to the driven part, solely mechanical accessory components made by the drive manufacturer from the current product catalogue may be used.

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.

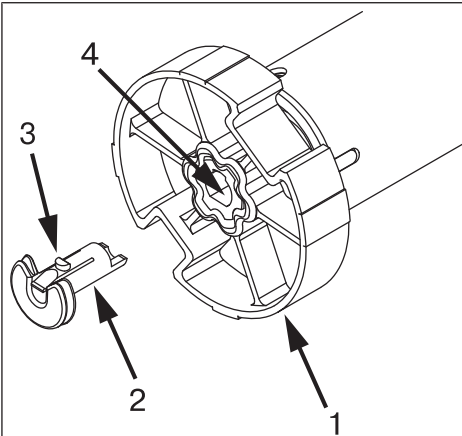


Calculate the space required at the side (M) by measuring the drive head (1) and wall bracket (2). The clear dimension of the box (X) minus the space required at the side (M) and idler (G) gives the length (L) of the barrel: $L = X - M - G$.

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

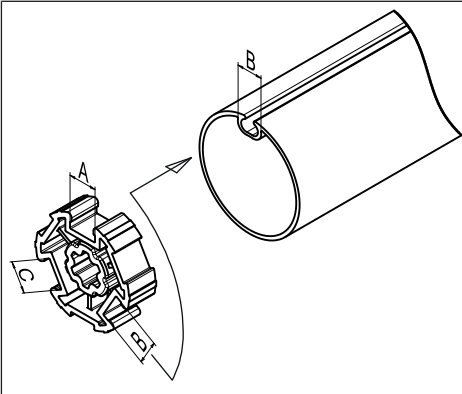
Then mount the wall bracket and idler. Ensure that the barrel is aligned at right angles to the wall and that sufficient axial play is allowed for the mounted system.

Assembling the drive adapter with drive adapter safety catch



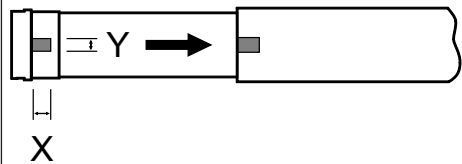
Put the drive adapter (1) onto the drive shaft of the tubular drive. You can see where to insert the safety catch (2) from its shape. When inserting the drive adapter safety catch (2) into the hole (4), make sure that the locking lug (3) engages. You will hear a click. Check that the safety catch is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

Mounting the drive in the tube



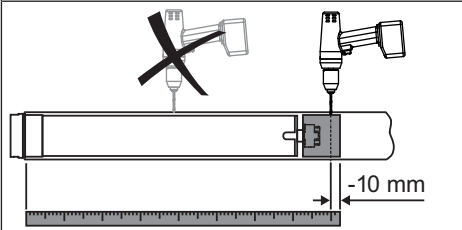
For profile tubes:

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).

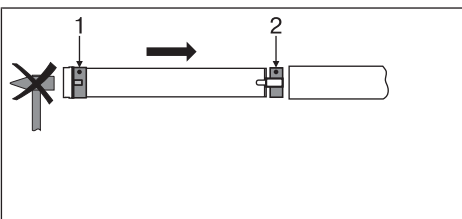
Attention! When drilling into the barrel, never drill near the tubular drive!

| 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

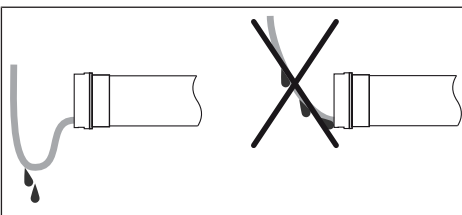
Do not hammer the tubular drive into the tube or drop it into the barrel!



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 barrel, tubular drive and idler on the box and secure the drive with a split 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 and any antennae must not project into the winding chamber. Cover any sharp edges.

Setting the limit positions with the switches

Setting the limit positions

There are **2** ways to set the limit positions:

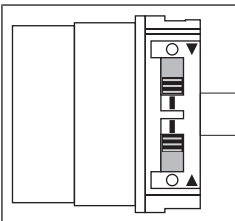





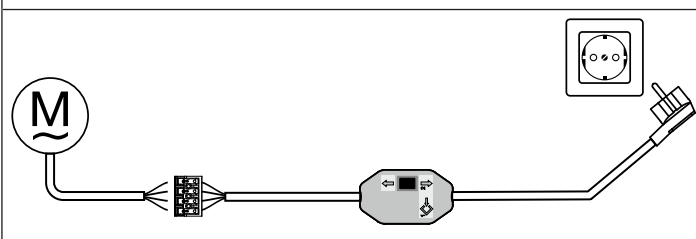
- Extended point to retracted point
- Extended position to retracted stop

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

i 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.

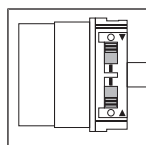



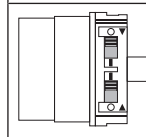

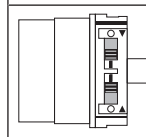
Attention

The cord switch set is only designed for the commissioning, and not for continuous operation.

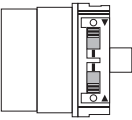
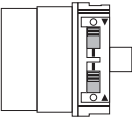
| | | |
|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|  | <p>Programming setting  Switch  Delete setting  Direction arrows  </p> | |
|  | <p>Connect the pigtail wires of the tubular drive to those of the same colour in the cord switch set or operator control and switch on the power supply.</p> | |

Extended point to retracted point

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

| | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p>Set both switches to the delete setting.</p> |
| <p> /  1s</p> | <p>Execute a short drive command.</p> |
| <p></p> | <p>Open to the desired extended limit position.</p> |
|  | <p>Change the setting of the extending direction of rotation switch from the delete setting to the programming setting.</p> |
| <p></p> | <p>Then open to the desired retracted limit position.</p> |
|  | <p>Now change the setting of the retracting direction of rotation switch from the delete setting to the programming setting.</p> <p>► The limit positions are now set.</p> |

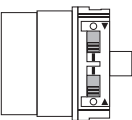
Extended position to retracted stop

| | |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
|  | Set both switches to the delete setting . |
| ▲ / ▼ 1s | Execute a short drive command. |
| ▼ | Open to the desired extended limit position. |
|  | Change the setting of the extending direction of rotation switch from the delete setting to the programming setting. |
| ▲ | Then retract to the upper permanent stop until the tubular drive switches off automatically. ▶ The limit positions are now set. |

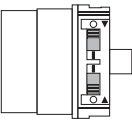
Deleting the limit positions with the switches

Deleting individual limit positions

i It is only possible to delete an individual limit position if the extended point to retracted point without stop was programmed with the switches.

| | |
|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
|  | Change the setting of the switch of the relevant limit position from the programming setting to the delete setting. |
| ▲ / ▼ 1s | Execute a short drive command. ▶ The limit position is now deleted. |

Deleting both limit positions

| | |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
|  | Change the setting of both switches from the programming setting to the delete setting. |
| ▲ / ▼ 1s | Execute a short drive command. ▶ Both limit positions are deleted. |

Setting the limit positions using the programming unit

Setting the limit positions

There are **2** ways to set the limit positions:

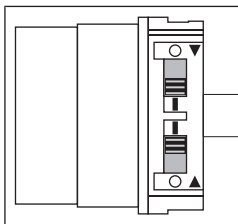





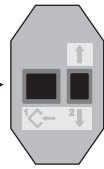
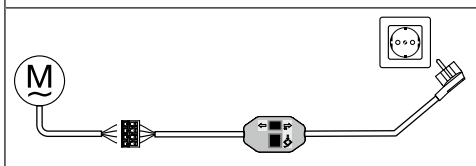
- Extended position to retracted position
- Extended position to retracted stop

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

i 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.

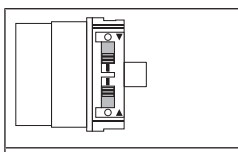

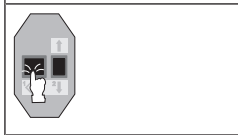

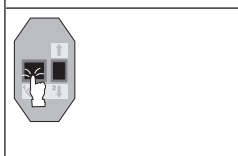
Attention

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

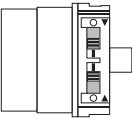



| | | |
|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
|  | <p>Programming setting  Switch  Delete setting  Direction arrows  </p> | <p>Programming button →  ← Travel button</p> |
|  | <p>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.</p> | |

Extended point to retracted point with programming unit

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

| | |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p>Set both switches to the programming setting.</p> |
|  | <p>Open to the desired extended limit position.</p> |
|  | <p>M 1x Press the programming button of the programming unit for 3 seconds. ▷ The tubular drive confirms.</p> |
|  | <p>Then open to the desired retracted limit position.</p> |
|  | <p>M 1x Press the programming button of the programming unit for 3 seconds. ▷ The tubular drive confirms. ► The limit positions are now set.</p> |

Extended point to retracted stop with programming unit

| | | |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
|  | Set both switches to the programming setting. | |
|  | Open to the desired extended limit position. | |
|  | M 1x | Press the programming button of the programming unit for 3 seconds. ▷ The tubular drive confirms. |
|  | Then retract to the permanent upper stop. ▷ The tubular drive switches off automatically. ▶ The limit positions are now set. | |


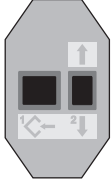
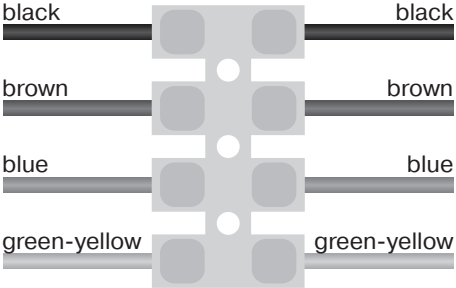






Deleting the limit positions using the programming unit









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

| | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;">  </div> <div style="text-align: center;">  </div> </div> <div style="margin-top: 20px; text-align: center;">  </div> | <div style="text-align: center; margin-bottom: 20px;">  </div> |
|  | 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. |
|  | <p>Next press the programming button again.</p> <ul style="list-style-type: none"> ▷ The tubular drive acknowledges. ▶ 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. |
|  |  2x | Next press the programming button again. <ul style="list-style-type: none"> ▶ The tubular drive acknowledges. ▶ Both limit positions are deleted. |

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

| Type | P3/30PS | P5/20PS | P5/30PS | P9/16PS |
|---------------------------------------|------------------|---------|---------|---------|
| Rated torque [Nm] | 3 | 5 | 5 | 9 |
| Output speed [rpm] | 30 | 20 | 30 | 16 |
| Limit switch range | 64 revolutions | | | |
| Supply voltage | 230 V AC / 50 Hz | | | |
| Connected load [W] | 85 | 115 | 115 | 110 |
| Rated current consumption [A] | 0.36 | 0.47 | 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 | | | |

What to do if...?

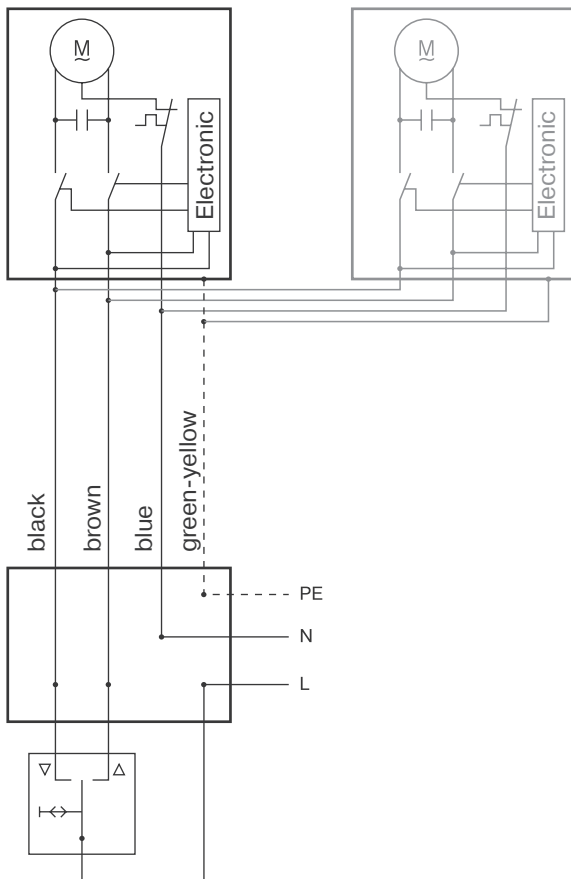
| Problem | Cause | Remedy |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Tubular drive overruns the limit position or does not reach the set limit position. | A short circuit caused by dampness. | Repair electrical installation, reset limit positions. |
| | External devices are connected to the connecting cables of the tubular drive. | Check electrical installation, remove external devices, re-set limit positions. |
| | Due to long cable, L1 and N connection have been reversed. | Change around L1 and N (N = blue, L1 = black/brown); reset limit positions. |
| | Stops or one or more attachments have broken off. | Repair system, reset tubular drive, then re-set limit positions. |
| Tubular drive does not retract after the extended limit position has been set. | The tubular drive was extended further by mistake and switched off automatically. Both limit positions are now programmed in the tubular drive. | Delete limit positions, re-set the outer limit position and retract directly. |
| Tubular drive stops arbitrarily; cannot be restarted in the same direction. | Tubular drive is overloaded. | Use a more powerful tubular drive. |
| | Sun protection system keeps sticking; too much friction. | Ensure that the sun protection system runs smoothly. |
| | A pre-used tubular drive is installed. | Delete and then re-set the 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 programme); tubular 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 obstruction. | 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 secs. | Tubular drive is in error mode | Reset the limit positions or replace the tubular drive |

| Problem | Cause | Remedy |
|--------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| When you attempt to set the limit positions using the programming unit, this does not work. | Before, the limit positions were set with the switches. | Set both switches to the delete setting. Execute a short drive command. Set both switches to the programming setting simultaneously. Re-set the limit positions using the programming unit. |
| When you attempt to set the limit positions with the switches, this does not work properly. | The limit positions have been reached more than 16 times. | Set both switches to the delete setting. Execute a short drive command. Re-set the limit positions. |
| The tubular drive switches off automatically before the first required limit position (extended limit position) is programmed. | Tubular drive has detected a torque increase. | <ol style="list-style-type: none"> By releasing and running past this position. By pressing the reset button at this position. |

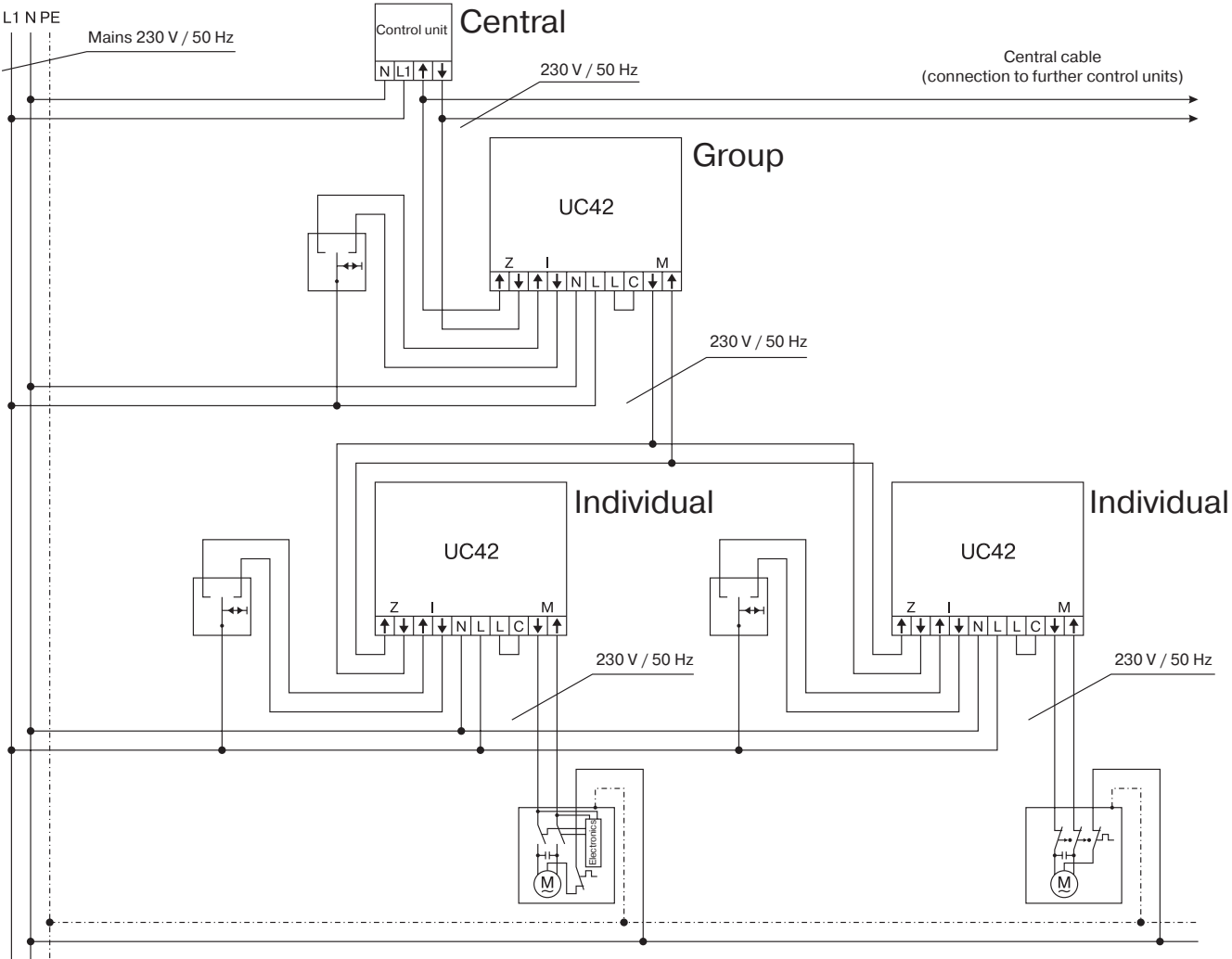
Sample wiring diagrams

i 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



Central, group and individual control using Centronic UnitControl UC42



Declaration of conformity

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- 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:
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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



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