INTELLIGENT DRIVES & CONTROLS FOR SHUTTERS AND AWNINGS

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INSTALLATION & OPERATING INSTRUCTIONS

Instructions and notes for installation and operation

3T-MOTORS Radio shutter / awning motors

with mechanical limit switches + emergency manual operation

Motor type 3T45-RNH
(For shafts from 60 mm)

3T45-20RNH
3T45-40RNH

Attention:
It is important for the safety of persons to follow these instructions.
Keep these instructions for future reference.

3T-COMPONENTS GmbH & Co. KG

www.3t-components.de | WEEE-Reg.-Nr.: DE 77028333

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Learn more about us:

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GUIDELINE

With this guide, you can determine the ideal torque in Newton meters (Nm) for the shutter motor.

DETERMINE WEIGHT ROLLER SHUTTER

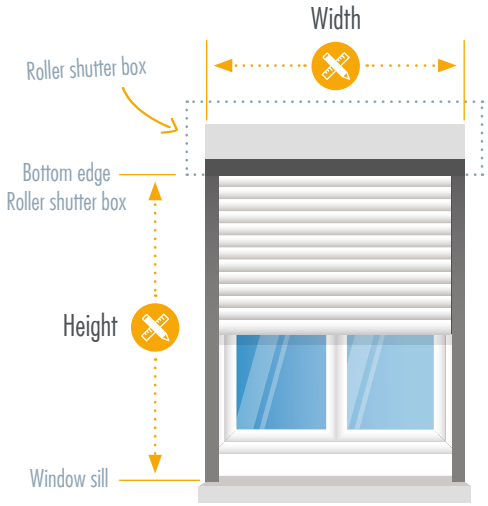
1.) Determine roller shutter area
(Height + 150 mm) x Width = Roller shutter area (m^2)

2.) Determine weight roller shutter material
Take approximate weights per m^2 of roller shutter area from the table.

3.) Determine weight roller shutter
Roller shutter area (m^2) x weight roller shutter material (m^2)

4.) Calculate required traction force
Friction losses must be taken into account (rail guidance) of approx. 10%!

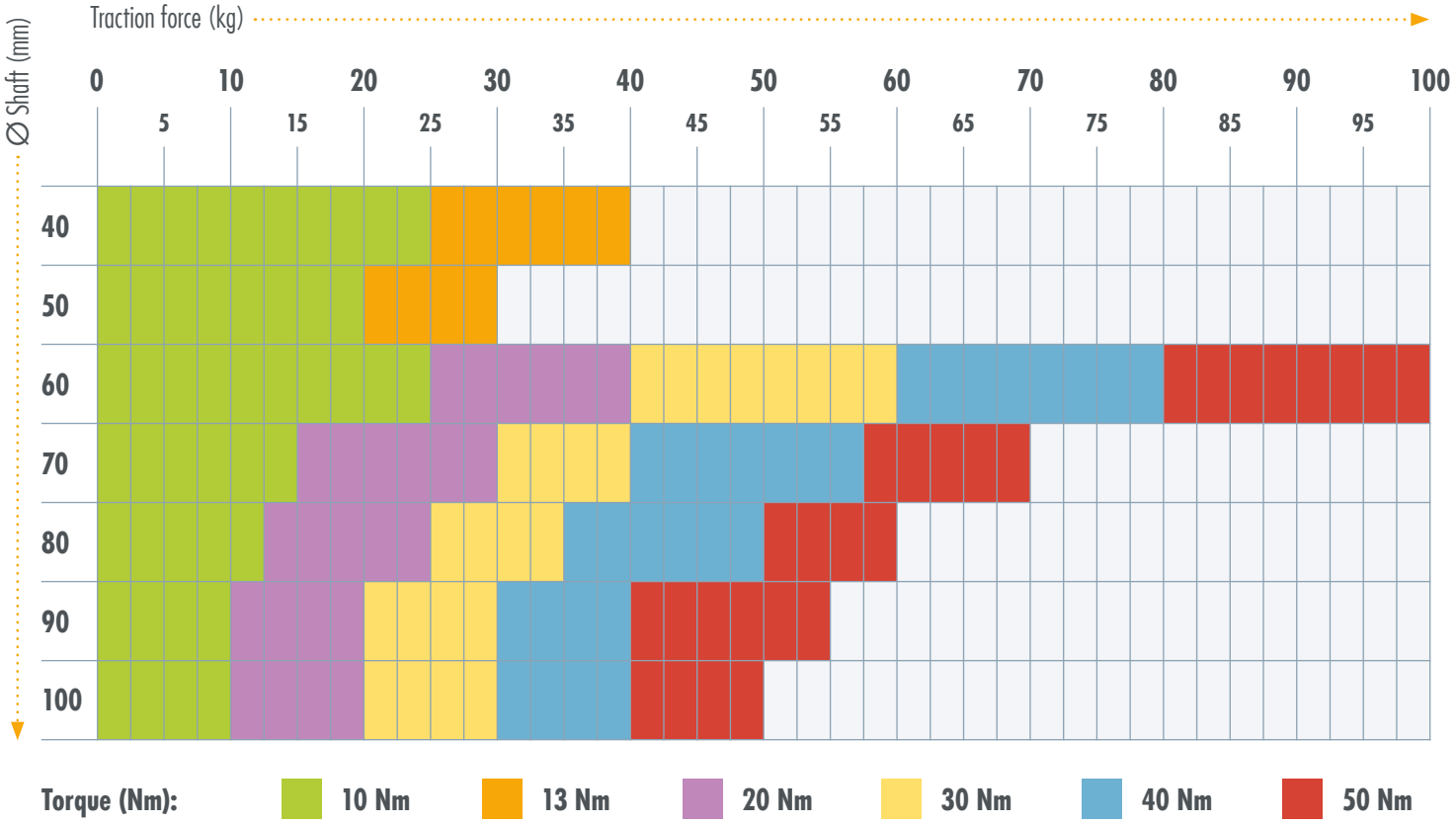
Material	kg / m^2
PVC	5
Aluminum Light	6
Aluminum Heavy	9
Steel	11
Wood	11



Roller shutter area (m^2) x Weight roller shutter material (m^2) = Weight roller shutter (kg) + 10% Friction losses = Required traction force (kg)

Example:
PVC-Roller shutter area 3,00 m^2 x Weight roller shutter material 5 kg = 15 kg Weight roller shutter + 10% Friction losses = 16,5 kg Required traction force

DETERMINE SHUTTER MOTOR TORQUE



SAFETY INSTRUCTIONS

Please read these important safety instructions before commissioning!
Incorrect installation can cause serious personal injury and damage to property.
The warranty claim expires in case of non-observance of this user information with all contained notes and regulations.
In case of non-observance of these instructions, the manufacturer or supplier shall not be liable for any personal injury or property damage incurred.

This symbol indicates danger due to electrical energy.
Danger to persons and objects may arise if the associated information is not observed!

GENERAL SAFETY INSTRUCTIONS

- WARNING: Important safety instructions.
  Follow all instructions as incorrect installation may result in serious injury.
- WARNING: The drive must be disconnected from the power source during cleaning, maintenance and replacement of parts.
- Danger to life from electric shock when working on electrical equipment.
- The electrical connection, installation and commissioning of the receiver may only be carried out by qualified personnel.
- Before installing the drive, remove all unnecessary cables and disable all devices, that are not required for operation with power.
- The relevant regulations and guidelines must be followed without fail, to avoid damage to persons and objects.
- Observe safety instructions according to EN 60 335-2-97: The power supply cable of the drives must be laid internally.
- Installation according to DIN 18073: The roller shutter box cover must be easily accessible and removable.
- Installation according to EN 60335: Only switches / pushbuttons / switching devices with a minimum contact opening of 3 mm may be used, furthermore the up and down direction must be interlocked against each other.
- When installing in damp rooms, observe regulations (VDE 0100, part 701 and 702).
- Do not use defective devices: Never use defective equipment.
  Periodically inspect the equipment for imbalance and signs of wear or damage to cables and suspension springs.
  Do not use equipment if repair or touch-up is necessary.
  There is a risk of personal injury and property damage due to electric shock or short circuit.
- Retain the instructions for future reference.

This symbol indicates general danger.
Failure to comply may result in danger to persons and property!

IMPROPER USE

- Persons are to be instructed with the correct operation of the tubular motor.
- The roller shutter movement must be monitored in order not to endanger persons.
- Do not allow children to play with motor controls.
- Store the handheld transmitter in such a way that unintentional operation is prevented (e.g. by children playing).
- The device can be used by children aged 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge, if they have been given supervision and instruction concerning use of the appliance in a safe way and are aware of the hazards involved.
- Children are not allowed to play with the equipment.
- If the power supply cord of this device is damaged, it must be replaced by the manufacturer or its customer service or a similarly qualified person to prevent hazards.

This symbol indicates important information that can ensure the safe and proper use of the appliance.

PROPER USE

- Use tubular motors only for automating shutters.
- Only use original components and original accessories from the manufacturer.
- The mains connection cable of the drives must be laid internally in the empty conduit up to the junction box.
  The local electrical regulations must be observed.
- For the electrical connection of the tubular motors, a 230 V / 50 Hz power connection with fuse must be available at the installation site.
- Inspect the installation frequently for imbalance and signs of wear or damage to cables and springs.
  Do not use if repairs or adjustments are required.

FUNCTION OVERVIEW

SCOPE OF DELIVERY – MOTOR TYPE 3T45-RNH

1 Motor
2 Limit switch adapter
3 Shaft adapter
4 Connection cable 3 meters
6 Universal bearing & cotter pin
8 Securing bracket
5 Adjustment pin
8 Emergency hand crank eyelet
9 Manual

FUNCTION OVERVIEW – MOTOR TYPE 3T45-RNH

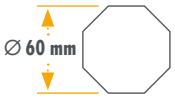
APPLICATION

Motorized radio shutters & awnings

SUITABLE FOR

Round shafts with outer diameter: 63 mm / 70 mm / 78 mm / 85 mm

8-sided Shafts from 60 mm



CE

Optional adapter sets + accessories
you will find in our store under mounting accessories

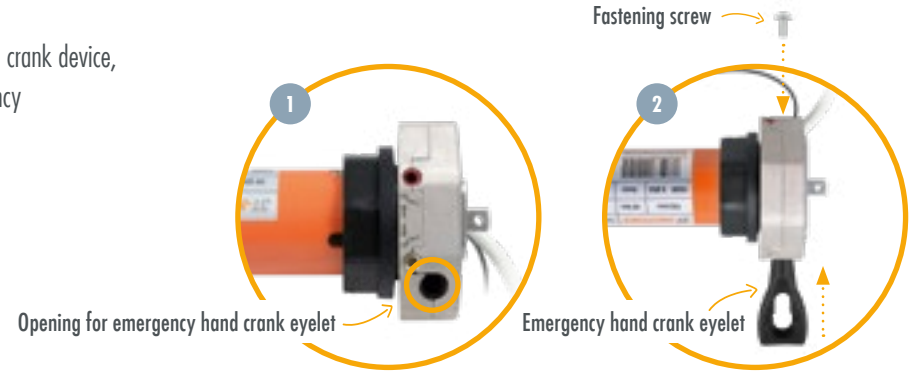
Technical data

Motor type	3T45-40RNH	3T45-20RNH
Torque (Nm)	40	20
Traction power (kg)	80	40
Max. Projection (m)	Suitable for folding awnings with up to 5 m projection (with 2 folding arms)	–
Max. PVC shutter area (m^2)	11	6
Max. ALU shutter area (m^2)	9,5	4,7
Power (W)	198	145
Standby consumption (W)	2	2
Turn Speed (U/min)	15	15
Limit switch capacity (min)	22	22
Operating voltage (V AC)	230 V / 50 Hz	230 V / 50 Hz
L1 Total motor length (mm)	781	751
L2 Installation length (mm)	751	721
Connection line (m)	3	3
Max. Runtime (min)	4	4
Protection class	IP44	IP44
EAN	4260601760499	4260601761359

MANUAL EMERGENCY OPERATION

To operate the awning or roller shutter manually in an emergency, insert the emergency hand crank eyelet into the opening provided for this purpose (> fig. 1) on the motor head and secure it with the fastening screw (> fig. 2). Then hook the crank handle onto the crank eyelet and turn the motor by cranking in the relevant direction. Make sure that the set limit switch points are not exceeded.

In order to avoid unnecessary wear of the emergency hand crank device, manual operation should only be carried out in an emergency (e.g. in the event of a power failure).



INSTALLATION NOTES

Before installation, all non-essential electrical wiring must be removed, all mechanisms that are not necessary for motorized operation must be deactivated.

- Do not expose the tubular motor to crushing, impact, falling or contact with any liquids. Do not punch holes in the entire length of the tube (motor casing) or attach screws to it.

- Please use suitable suspension springs to fasten the roller shutter curtain to the roller shutter shaft. You will find suitable suspension springs in our store under mounting accessories.

- Grinding marks of any kind on the motor housing will void the warranty.

- The inspection cover of the roller shutter box must be easily accessible and removable.

- We recommend using a tubular motor with a power 10% higher than the weight of the shutter, to compensate for the frictional resistance of the rail guide. > See Guideline / Determine torque (page 3)

- The motor is designed for short-time operation (4 min). It has an internal thermal circuit breaker which interrupts the power supply in the event of overheating, e.g. as a result of continuous operation. The cooling phase is min. 10 min, the thermal switch resets automatically. Regular operation is only possible after the the motor has cooled down completely.

INSTALLATION INSTRUCTIONS

Please note:

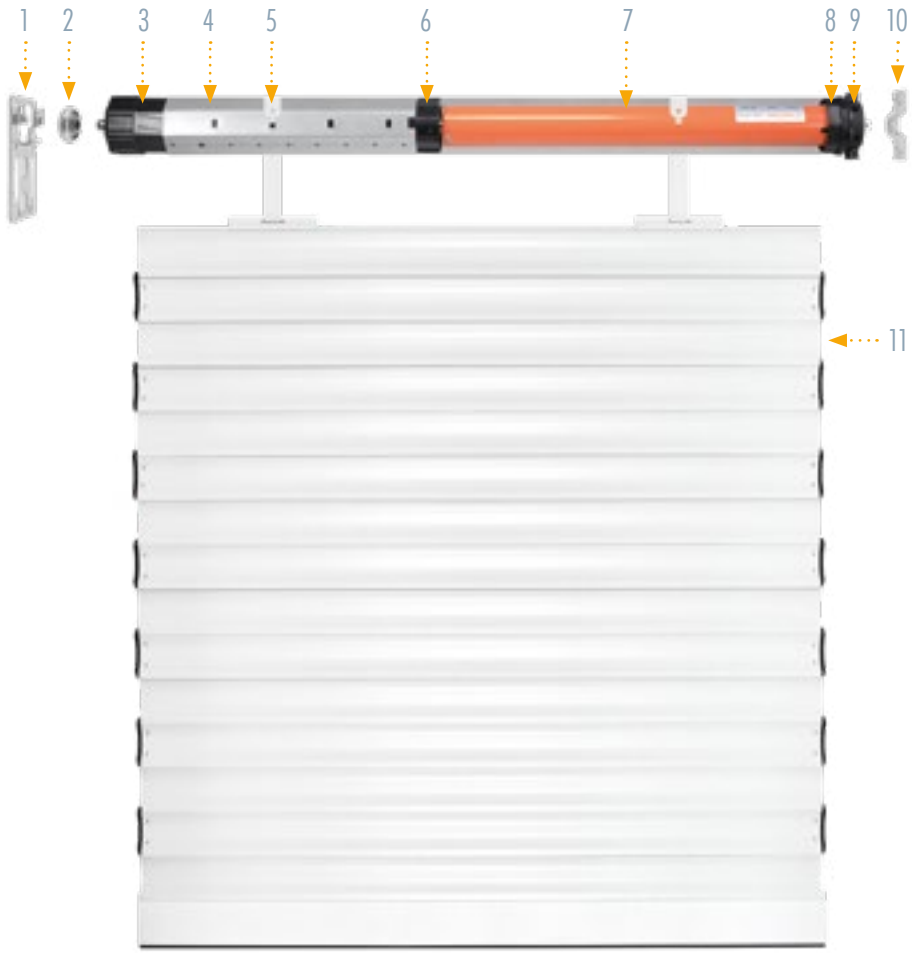
- The motor can be installed on the right-hand side as well as on the left-hand side.
  If the direction of rotation is reversed, please exchange the wires for the up and down direction.
- The setting of the end positions is only possible in the installed state (motor in shutter shaft).
- Never place screws in the area of the tube motor, as they will damage the motor.
- **Engine damage caused by improper use or unprofessional installation, lead directly to loss of warranty.**

INSTALLATION RADIO SHUTTER MOTOR

Installation situation

1 Counter bearing*
2 Ball bearing*
3 Roller capsule*
4 Shutter shaft*
5 Suspension spring*
6 Shaft adapter
7 Tubular motor
8 Limit switch adapter
10 Limit switches
10 Engine mount
11 Shutter curtain*

* Accessories; not included



1 Prepare power connection:

- The mains connection cable of the drive must be laid internally in the empty conduit up to the junction box.
  The local electrical regulations must be observed.

INSTALLATION INSTRUCTIONS

2 Remove shutter shaft:

- Lower the roller shutter.
- Open the cover of the roller shutter box.
- Release the suspension springs from the roller shutter shaft.
- Lift roller shutter shaft incl. ball bearing out of the holder.

3 Prepare motor for installation:

- Push limit switch adapter flush against motor head. > fig. 3.1 / 3.2
- Secure the shaft adapter with the supplied securing bracket. > fig. 3.3 / 3.4
- Push the motor into the roller shutter shaft without using force (never knock it in). The fold of the shaft must lie over the recess in the shaft adapter. > fig. 3.5 / 3.6
- Make sure that the roller shutter shaft is flush with the motor head limit switch adapter. > fig. 3.7 / 3.8

4 Mount bearings:

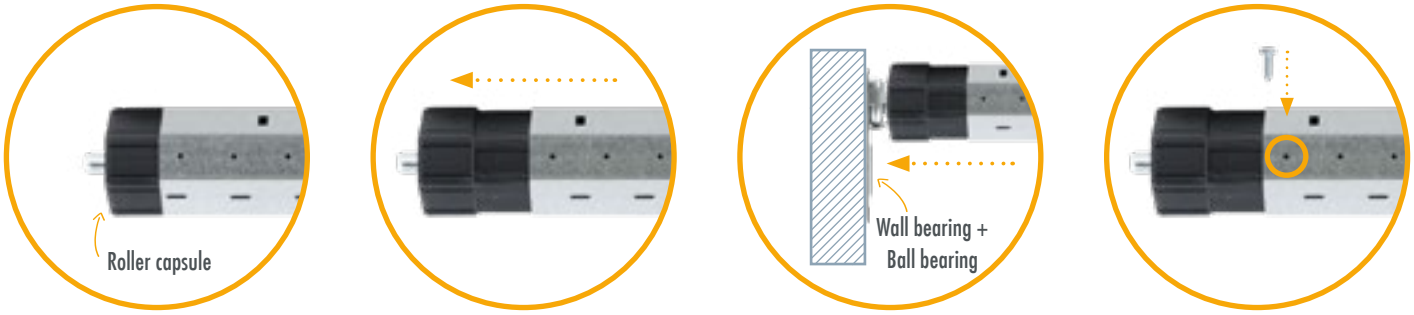
- Remove old wall bearing on motor side (left or right installation possible).
- Mount motor bearing at this point (2 mounting options: Universal bearing & cotter pin and cover cap bearing & securing clips / clip bearing).
- Please mount the bearings so that the limit switches are freely accessible.
- Make sure that the roller shutter motor with the shaft unit sits horizontally in the roller shutter box.

5 Mount motor with shaft unit:

- Insert the motor head (with the entire shaft unit) into the motor bearing and secure it with the supplied cotter pin or securing clips (Cover cap bearing).

INSTALLATION INSTRUCTIONS

- On the opposite side of the motor, push the roller capsule out of the roller shutter shaft until it fits into the ball bearing inserted in the wall bearing.
- Fix roller capsule to roller shutter shaft with self-tapping screw. Position the screw at a punched hole. This prevents the screw from slipping.

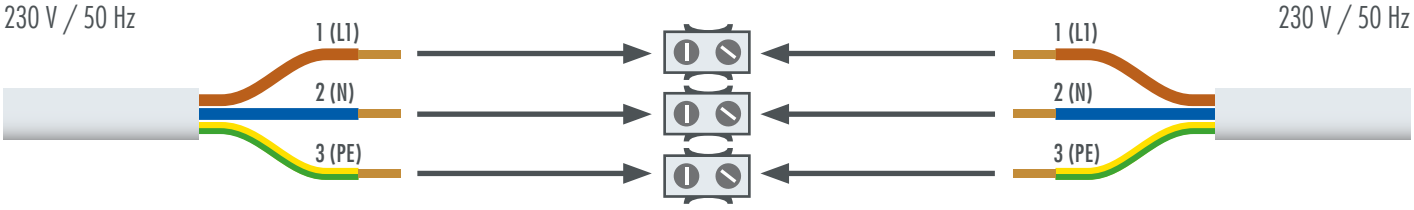


6 Shutter motor wiring:

- Connect the radio roller shutter motor to the mains.
- The electrical connection of the roller shutter motor and control unit may only be carried out by qualified personnel.

Power grid
230 V / 50 Hz

Shutter motor
230 V / 50 Hz



1) brown / black = L1 / Phase
2) blue = N Neutral conductor
3) green/yellow = PE Protective conductor

1) brown / black = L1 / Phase
2) blue = N Neutral conductor
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7 Programming radio transmitter:

- Pair radio transmitter to shutter motor. See Programming radio transmitter > Pairing handheld transmitter to 3T radio motor type RNH (page 15)
- If the direction of rotation is reversed, please change it with the paired radio handheld transmitter > Change direction of rotation of radio motor (page15).

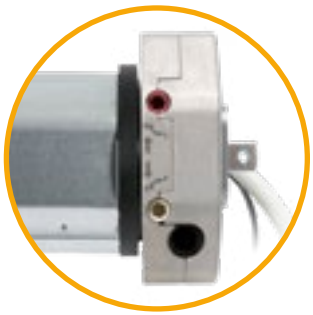
INSTALLATION INSTRUCTIONS

8 Setting the end positions:

Explanation of the limit switch screws

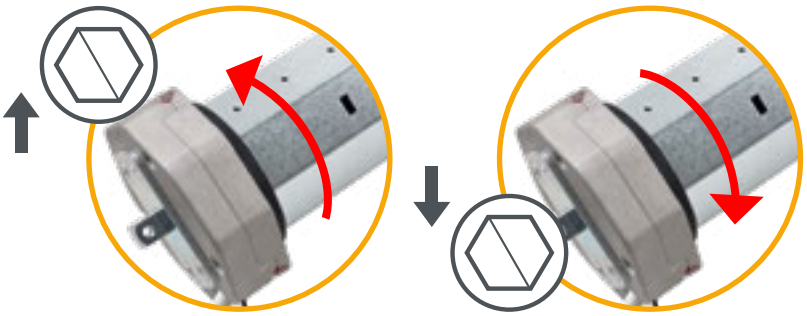
There are 2 limit switch screws on the motor head. One limit switch screw is responsible for the upper end position, the other for the lower end position. The end positions can be adjusted by turning the limit switch screws with the adjustment pin.

Adjustment pin



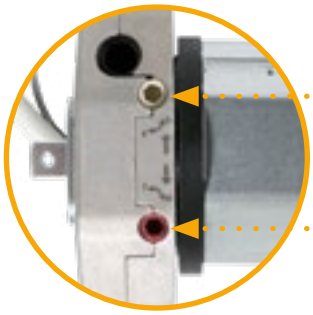
Motor type 3T45-RNH / Power cable to rear

Motor type 3T45-RNH / Power cable to front



The straight up and down arrows indicate the direction of rotation of the motor and shaft and thus show you for which end position the limit switch screw next to it is responsible. Depending on whether the direction of rotation leads to unrolling or rolling up of the roller shutter, the limit switch screw is responsible for the lower or upper end position (unrolling > lower end position, rolling up > upper end position).

The arrows with PLUS and MINUS apply to both limit switch screws and show you in which direction you must turn the adjusting pin to switch off the motor sooner or later. Turning the limit switch screw in the PLUS direction after switching off allows the motor to continue moving step by step in the corresponding direction. Turning the limit switch screw in the MINUS direction during travel causes the motor to switch off earlier. For motor type 3T45-RNH / power cable to the front, the PLUS and MINUS directions change (see marking on the motor head).



Left installation

Limit switch screw white:
Lower end position

Limit switch screw red:
Upper end position

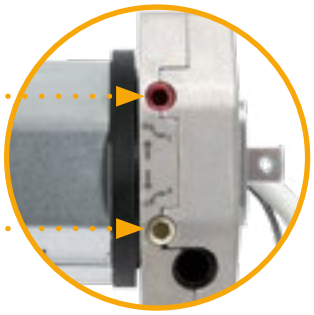
Power cable to rear

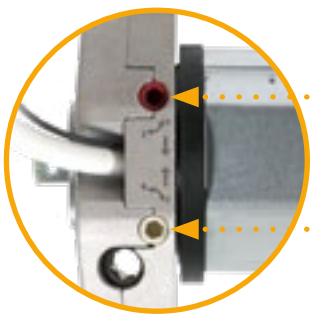
Direction of rotation
Limit switch screw

Right installation

Limit switch screw red:
Lower end position

Limit switch screw white:
Upper end position





Left installation

Limit switch screw red:
Upper end position

Limit switch screw white:
Lower end position

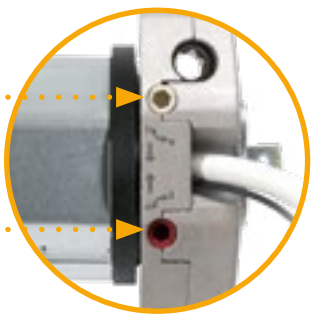
Power cable to front

Direction of rotation
Limit switch screw

Right installation

Limit switch screw white:
Upper end position

Limit switch screw red:
Lower end position



INSTALLATION INSTRUCTIONS

Special case: Roller shutter rolls down in front of motor + shaft

If the roller shutter curtain rolls in front of the motor and shaft, the responsibilities of the limit switch screws for the upper and lower end positions are reversed. See illustration of left-right installation page 10: upper end position > lower end position / lower end position > upper end position.

1. Setting the lower end position

- Do not fasten the roller shutter curtain!
  Detach all suspension springs from the roller shutter shaft!
- Move the motor + shaft in the downward direction until the lower limit switch-off occurs automatically and the motor stops.
- Move motor + shaft upwards.
  While the motor is moving upwards, turn the adjustment pin on the limit switch screw for the upper limit position in the MINUS direction (up to 100 turns, depending on the motor type) until the motor switches off after approx. 4 turns.
  This prevents the roller shutter from being pulled out of the guide rails when the upper end position is set.
- Move motor + shaft in downward direction to the lower end position until the motor stops automatically.
- If the shaft has to be turned a little to hook in the suspension springs, use the adjustment pin on the limit switch screw for the lower end position in the PLUS direction. This causes the motor to turn the shaft stepwise. The rectangular openings in the shaft for hooking in the suspension springs should point forward and be easily accessible.
- Hang the roller shutter curtain on the roller shutter shaft using the suspension springs.

2. Setting the upper end position

- Allow the motor + roller shutter to move upwards until the motor stops automatically at the previously set upper end position.
- To set the upper end position, turn the adjustment pin on the limit switch screw for the upper end position in the PLUS direction to raise the motor + roller shutter further. The upper end position should be that the roller shutter stops approx. 3 cm before the roller shutter box. Reason is the expansion of the roller shutter due to the temperature difference in summer and winter.
- After setting the end positions, lower and raise the motor + shutter to check the set end positions.

Adjustment pin is needed

Note heat generation

The end position setting without shutter curtain load leads to more heat generation in the motor. This is normal behavior and does not result in damage to the motor. If the motor heats up too much, the thermal protection switch of the motor is automatically triggered. After a cooling phase of at least 10 minutes, the motor is ready for operation again.

INSTALLATION INSTRUCTIONS

INSTALLATION RADIO AWNING MOTOR

1 Preparation:

- Screw in awning & secure with straps or ropes.
- Remove awning from wall bracket & place on safe surface.

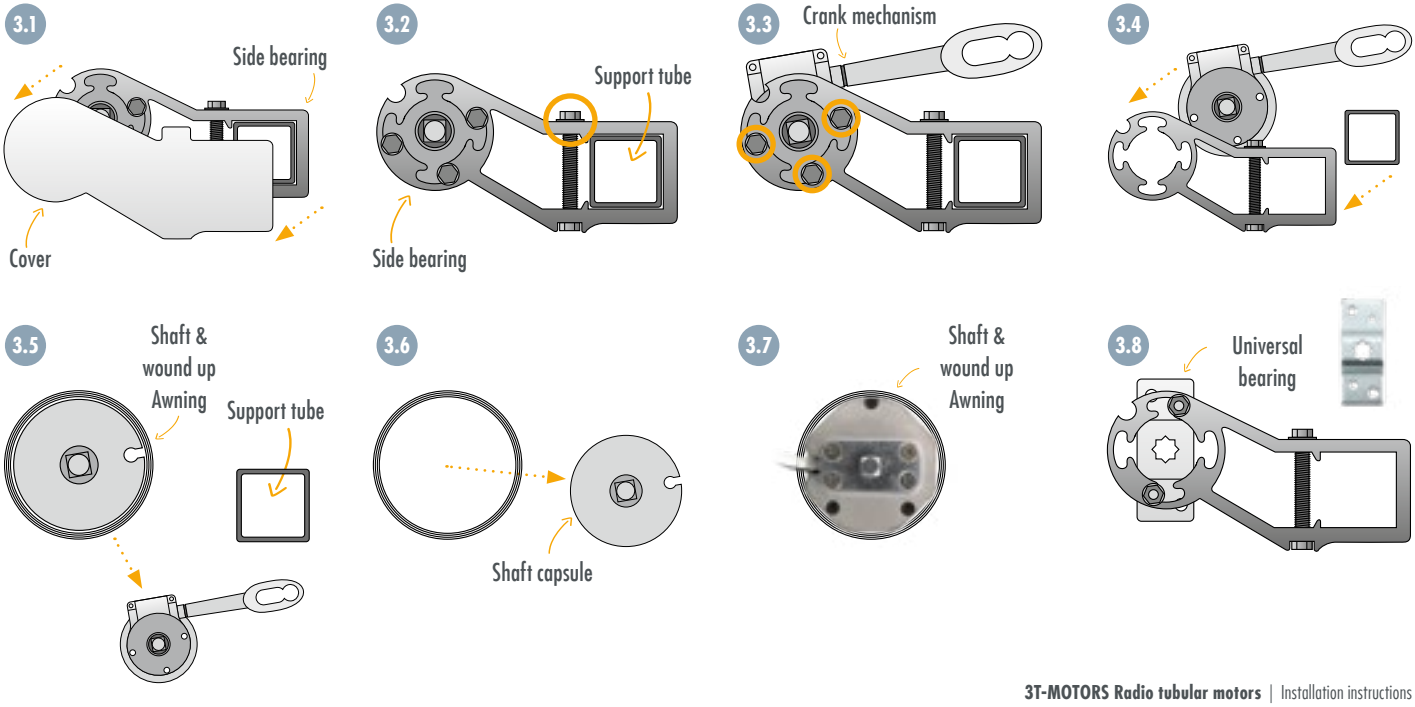
Attention:
Awning arms are under strong tension!

2 Prepare motor for installation:

- Slide limit switch adapter flush against motor head. > fig. 2.1 / 2.2
- Secure the shaft adapter with the supplied securing bracket. > fig. 2.3 / 2.4

3 Installation awning motor:

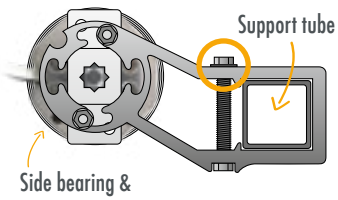
- Remove the cover to access the side bearing (also awning bracket) and fastening screws. > fig. 3.1
- Loosen the screw that secures the side bearing to the support tube. > fig. 3.2
- Remove all screws connecting the side bearing and the crank mechanism. > fig. 3.3
- Remove the side bearing from the support tube. > fig. 3.4
- Remove the crank mechanism. > fig. 3.5
- Remove the shaft capsule from the shaft. > fig. 3.6
  If the shaft capsule is tight, use a hammer and screwdriver.
  Be careful not to damage the shaft.
- Push the awning motor with shaft adapter first into the shaft. > fig. 3.7
- Make sure motor head & limit switch adapter are flush in shaft.
- Screw the universal bearing onto the side bearing on the side facing the awning shaft. > fig. 3.8



INSTALLATION INSTRUCTIONS

- Slide the side bearing with universal bearing onto the support tube & fasten. > fig. 3.9
- Ensure that the motor square spigot is properly engaged in the universal bearing. > fig. 3.10
- Secure the motor square spigot with the supplied cotter pin. > fig. 3.11
- Attach the cover to the side bearing. > fig. 3.12
- Install awning & release fuses.

3.9



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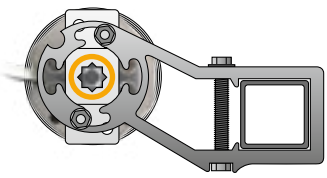

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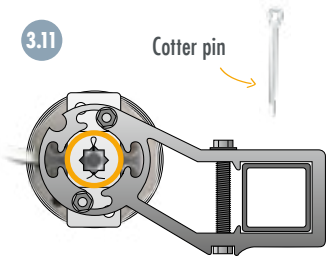

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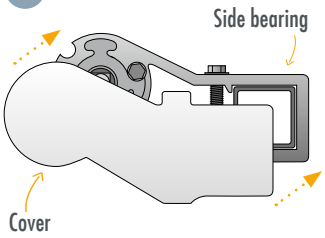
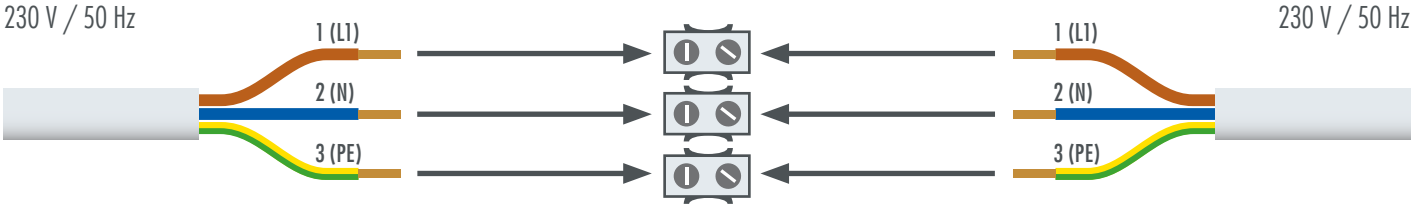


4 Awning motor wiring:

- Connect the radio awning motor to the mains.
- The electrical connection of the awning motor and control may only be carried out by qualified personnel.
- If the motor runs in the opposite direction after installation, the direction of rotation of the radio motor must be changed via the radio transmitter (p. 14).

Power grid
230 V / 50 Hz

Radio awning motor
230 V / 50 Hz



1) brown / black = L1 / Phase
2) blue = N Neutral conductor
3) green/yellow = PE Protective conductor

1) brown / black = L1 / Phase
2) blue = N Neutral conductor
3) green/yellow = PE Protective conductor

5 Programming radio transmitter

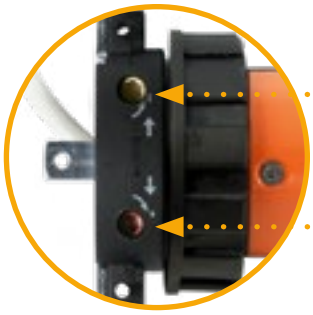
- Teach radio transmitter to shutter motor. See Programming radio transmitter > Teaching hand-held transmitter to 3T radio motor type RNH (page 15).
- If the direction of rotation is reversed, please change it with the taught-in radio handheld transmitter > Change direction of rotation of radio motor (page 15).

INSTALLATION INSTRUCTIONS

6 Setting the end positions:

Explanation of the limit switch screws

There are 2 limit switch screws on the motor head. One limit switch screw is responsible for the „EXTEND" position, the other for the „RETURN" position.
By turning the limit switch screws with the adjustment pin, the positions of the limit switch can be adjusted.
A detailed description of the limit switch screws and the markings on the motor head can be found on page 10.



Left installation

Limit switch screw white: „RETURN"

Limit switch screw red: „EXTEND"

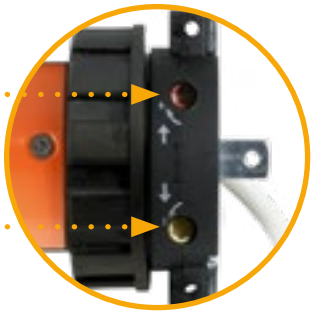
Power cable to rear

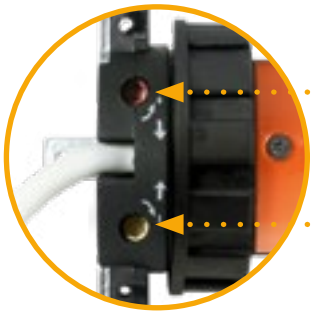
Direction of rotation Limit switch screw

Right installation

Limit switch screw red: „RETURN"

Limit switch screw white: „EXTEND"





Left installation

Limit switch screw red: „EXTEND"

Limit switch screw white: „RETURN"

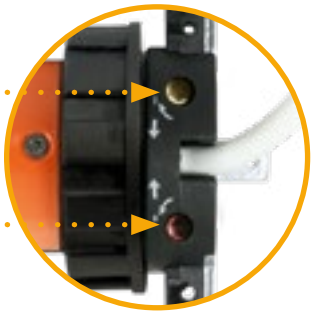
Power cable to front

Direction of rotation Limit switch screw

Right installation

Limit switch screw white: „EXTEND"

Limit switch screw red: „RETURN"



Adjustment pin is required

1. Setting the position „EXTEND"

- Set the switch to „EXTEND", awning moves OUT.
- Run the tubular motor in the „EXTEND" direction until the end switch-off occurs.
- If the motor is to continue moving, turn the adjustment pin on the „EXTEND" limit switch screw in the PLUS direction until the desired position is reached.

2. Setting the position „RETURN"

- Set the switch to „RETURN", awning moves IN.
- Run the tubular motor in the „RETURN" direction until the end switch-off occurs.
- If the motor is to continue moving, turn the adjustment pin on the „RETURN" limit switch screw in the PLUS direction until the desired position is reached and the awning is fully retracted.

If the awning motor travels too far:

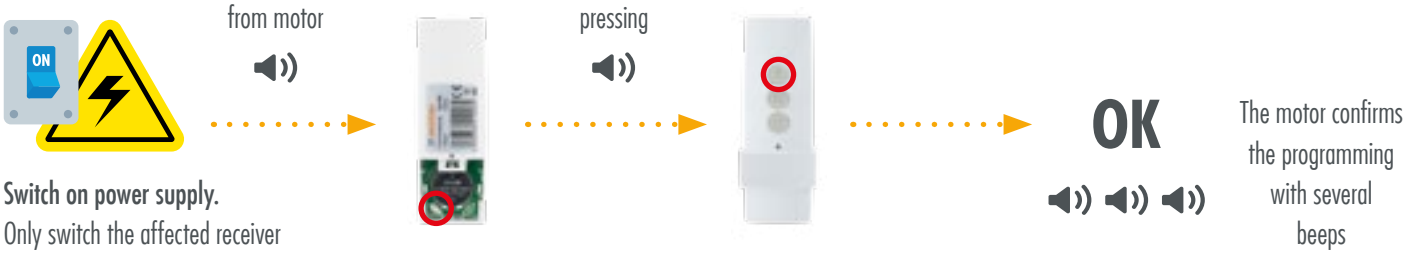
- While the tubular motor is moving in the relevant direction (EXTENDING or RETURNING), turn the adjusting pin on the relevant limit switch screw in the MINUS direction until the tubular motor switches off. If this is not possible, stop with the switch.
- After switching off by turning the limit switch screw in the PLUS direction, allow the tube motor to move to the desired end position.
- If this does not work, run the tube motor again in the opposite direction, stop and repeat this procedure.

PROGRAMMING RADIO TRANSMITTER

Important when teaching, changing or deleting transmitters:
Only one relevant motor may be switched to voltage!
Several radio motors or radio receivers can be programmed to form a group with the same transmission channel.
For multi-channel transmitters, channel by channel must be taught or transferred.

Pairing handheld transmitters with Radio motor Type RNH:

After switching on the power supply, programming (pressing the buttons) must be carried out within 10 seconds. Otherwise the motor returns to its original state.



Switch on power supply.
Only switch the affected receiver to voltage.

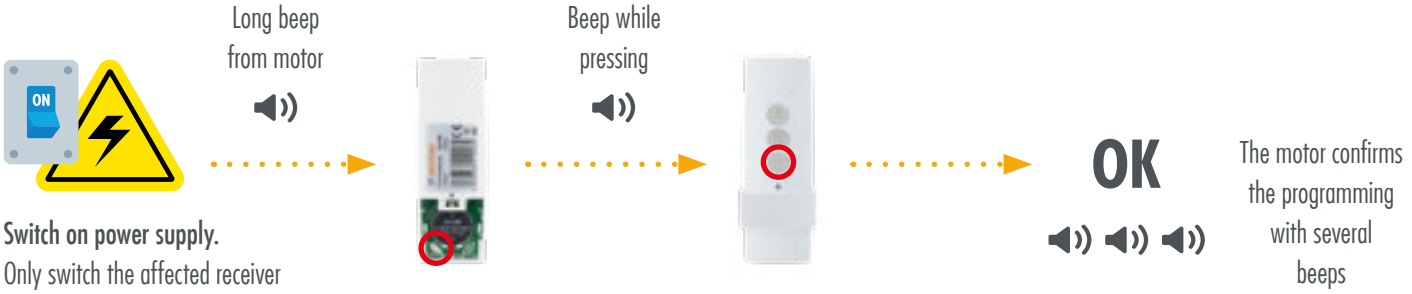
2 x Press button P2 / Set Up

1 x Press Up-button

The motor confirms the programming with several beeps

Change direction of rotation of radio motor:

After switching on the power supply, programming (pressing the buttons) must be carried out within 10 seconds. Otherwise the motor returns to its original state.



Switch on power supply.
Only switch the affected receiver to voltage.

2 x Press button P2 / Set Up

1 x Press Down-button

The motor confirms the programming with several beeps

Pairing another handheld transmitter:

After switching on the power supply, programming (pressing the buttons) must be carried out within 10 seconds. Otherwise the receiver returns to its original state.

Leave Power supply switched on.
Leave voltage of all motors switched on.

2 x Press button P2 / Set Up of the already paired handheld transmitter

1 x Press button P2 / Set Up of the new handheld transmitter

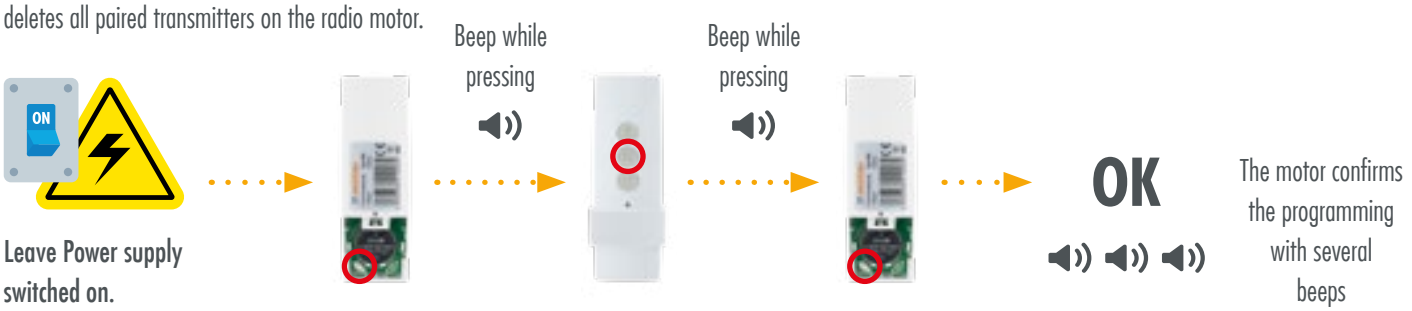
The motor confirms the programming with several beeps

PROGRAMMING RADIO TRANSMITTER

Delete handheld transmitter:

Programming (pressing the buttons) must be carried out within 10 seconds. Otherwise the motor returns to its original state.

Attention! Deleting the handheld transmitter deletes all paired transmitters on the radio motor.



Leave Power supply switched on.
Only switch the affected motor to voltage.

1 x Press button P2 / Set Up

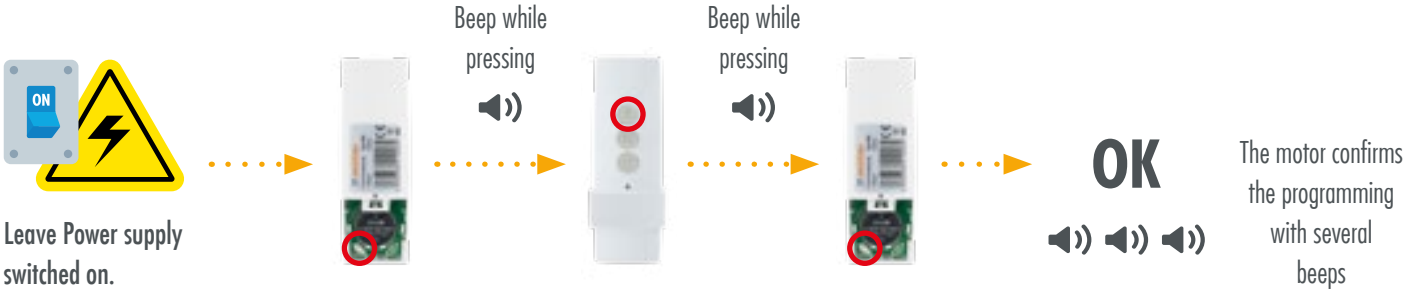
1 x Press Stop-button

1 x Press button P2 / Set Up

The motor confirms the programming with several beeps

Switching the operating mode Shutter and Blind:

Programming (pressing the buttons) must be carried out within 10 seconds. Otherwise the motor returns to its original state.



Leave Power supply switched on.
Only switch the affected motor to voltage.

1 x Press button P2 / Set Up

1 x Press Up-button

1 x Press button P2 / Set Up

The motor confirms the programming with several beeps

This setting allows switching from Shutter mode and Blind mode and vice versa.
Shutter operating mode: Motor immediately goes into self-hold when a direction button is pressed.
Blind operating mode: Jog mode possible. Only when the direction key is pressed for longer than 2 sec. Self-holding is carried out.

Note:
The following 3T-MOTORS transmitters do not have a P2 / Set Up button:

Radio mini transmitter FMSF

Radio wall transmitter WS1

Radio wall transmitter WS2

Radio wall transmitter WSE2

Radio timer WSTF1

Radio timer WSTF5

Button combination:
Press Up + Stop buttons simultaneously (FMSF / WS1 / WS2 / WSE2).
Press the Set and Mode buttons simultaneously (WSTF1 / WSTF5).

TROUBLESHOOTING

WHAT TO DO WHEN ...

... the motor does not run?
- Mains voltage is missing.
- Transmitter was not paired correctly.

... the motor is running in the wrong direction?
- Change the direction of rotation by pairing the transmitter again (see Change direction of rotation of radio motor > page 16).

... the motor does not switch off at the set point?
- Check fit of limit switch adapter (must be flush with motor head and shutter shaft).
- Roller capsule is not fixed or roller shutter shaft is too short.
- Set limit switch screw correctly (see instructions):
  MINUS turning during travel shortens the travel distance; PLUS turning after switch-off extends the travel distance.

... the motor does not switch off at all?
- Engine was run in removed state (limit switches only work in installed state).
- Check fit of limit switch adapter (must be flush with motor head and shutter shaft).
- Limit switches are too far apart:
  During travel, turn the relevant limit switch screw MINUS until the motor switches off.
  When the motor moves beyond the end position, stop it with the transmitter, let it move again in the opposite direction and repeat the process.
  Alternatively, turn both limit switch screws 15-20 turns in the MINUS direction and set again (first DOWN; then UP).

... the motor stops running after continuous operation?
- The thermal protection switch of the motor has tripped. After a cooling phase (min. 10 min.), the motor is ready for operation again.

... the motor cannot be paired?
- Radio motor was not set to „ready to learn" by switching power supply off / on.
- Switch off / switch on the power supply and repeat the pairing procedure.
- If no beep is heard from the motor after switching on the power supply, still perform the pairing procedure and test the transmitter.
- The pairing with pressing the keys must be done within 10 sec. after switching on the power supply and beeping of the motor. It must beep when pressed; if it does not beep, press repeatedly until it beeps 2 times at P2 button and final beeps after pressing the up or down key.
- Operating mode is not set to Manual mode (for radio timer handheld transmitter or radio timer).
- Group channel 0 set for multi-channel transmitters (can only be taught to channel 1-5 or 1-15).
- Battery is too weak or empty.

... the motor does not operate at the specified speed?
- Check roller shutter weight; if necessary, correct inclined installation of roller shutter shaft or Eliminate mechanical friction in the roller shutter box or rail guide.

EU Konformitätserklärung

Wir, die Firma

3T Components GmbH & Co. KG
Grete-Schickedanz-Straße 5
55545 Bad Kreuznach
Deutschland

erklären in alleiniger Verantwortung, dass das weiter unten genannte Produkt

Geräteart:	Rohrmotor mit integriertem Funkempfänger 433MHz
Modell	Artikelnummer
3T45-40RNH	593
3T45-20RNH	583

die grundlegenden Anforderungen der aufgeführten EG/EU-Richtlinien erfüllt:

2014/35/EU	Niederspannungsrichtlinie
2014/30/EU	EMV-Richtlinie
2014/53/EU	RED- Richtlinie
2011/65/EU	RoHS-Richtlinie
2012/19/EU	WEEE-Richtlinie

angewandte Standards und Verordnungen*:*

EN 60335-1:2012/A15:2021
EN60335-2-97:2006/A12:2015
EN IEC 62368-1:2020/A11:2020
EN 301 489-1 V2.2.3:2019
EN 301 489-3 V2.1.1:2019
EN 300 220-2 V3.1.1:2017
EN 55014-1:2021
EN 62479:2010

Bevollmächtigter zur Zusammenstellung der technischen Unterlagen:

Name, Position: Patrick El Hadj-Henni, Geschäftsführer

Bad Kreuznach, 06.03.2019

…….	……..
Datum	Unterschrift

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