

**INTELLIGENT  
DRIVES &  
CONTROLS  
FOR SHUTTERS  
AND AWNINGS**



# INSTALLATION & OPERATING INSTRUCTIONS

Instructions and notes for installation and operation

## Timer 3TimeTronic



**Attention:**

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



# TABLE OF CONTENTS

## Timer 3TimeTronic

<b>!</b> Safety instructions	Page 3
<b>i</b> Function overview	
Buttons & function	Page 4
Technical data	Page 4
Overview of weekly schedules	Page 5
<b>🔌</b> Wiring plan	Page 5
<b>⚙️</b> Settings	
Set operating mode / weekly schedule	Page 6
Set the time and day of the week	Page 6
Set up and down times Weekly schedule 1	Page 7
Set up and down times Weekly schedule 2	Page 8
Set up and down times Weekly schedule 3	Page 9
<b>🔊</b> Programming	
Change direction of rotation	Page 10
Operating mode roller shutter & blind	Page 10
Self-locking (child safety lock)	Page 10
<b>✖</b> Troubleshooting	
What to do when ...	Page 11
<b>§</b> EU Declaration of conformity	Page 12



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# ! SAFETY INSTRUCTIONS

## Please read these important safety instructions before commissioning!

Incorrect installation can cause serious personal injury and damage to property.

Failure to comply with this user information, including all instructions and provisions, will invalidate the warranty.

If these instructions are not followed, the manufacturer or supplier shall not be liable for any personal injury or damage to property.



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



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



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

## GENERAL SAFETY INSTRUCTIONS

- Danger to life due to electric shock when working on electrical installations.
- The electrical connection, installation and commissioning of the timer switch must only be carried out by qualified personnel.
- The timer switch must only be installed and connected when the power supply is disconnected.
- The relevant regulations and guidelines must be strictly adhered to in order to prevent damage to persons and property.
- Observe safety instructions in accordance with EN 60 335-2-97:2000:  
The mains connection cable for the drives must be laid internally.
- Only one roller shutter motor may be connected to the timer.  
If more than one motor is to be operated with the timer, additional suitable isolating relays must be used.
- Do not use defective devices: Never use defective devices.  
There is a risk of personal injury and property damage due to electric shock or short circuit.
- Keep the instructions for future reference.

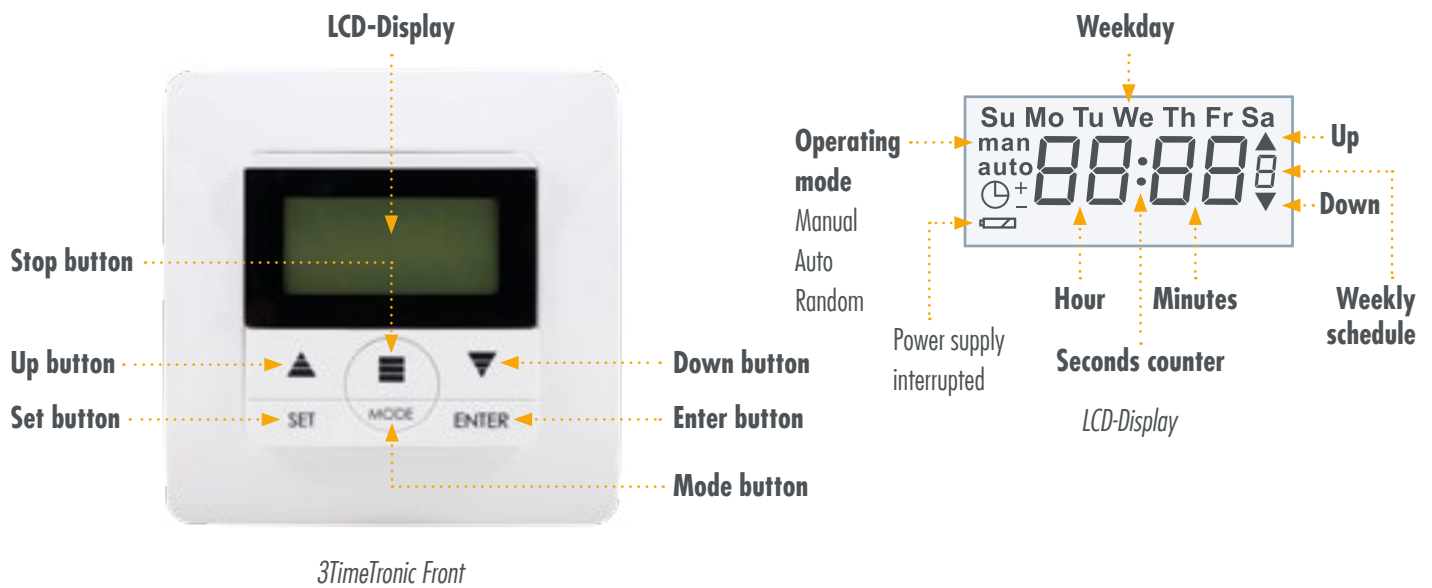
## IMPROPER USE

- Persons must be instructed in the correct operation of the timer.
- The movement of roller shutters must be monitored to avoid endangering people.
- Do not allow children to play with the motor controls.

## PROPER USE

- Only use the timer to automate roller shutters.
- Only use original components and original accessories from the manufacturer.
- The mains connection cable for the drives must be laid inside the empty conduit up to the junction box.  
The local electrical regulations must be observed.
- For the electrical connection of the timer and the tubular motors, a 230 V / 50 Hz power supply with fuse must be available at the installation site.

# FUNCTION OVERVIEW



## Buttons & function

- Up button: Controls the motor upwards
- Stop button: Stops the motor
- Down button: Controls the motor downwards
- Set button: For setting the times
- Mode button: For setting the operating mode/weekly schedule
- Enter button: For setting the times



## Safety instructions:

Installation only by a qualified electrician. Work on the 230V mains supply may only be carried out by authorised specialist personnel.

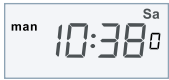
## Installation instructions:

Only one roller shutter motor may be connected to the timer. If more than one motor is to be operated with the timer, additional suitable isolating relays must be used.

Technical data	
Nominal voltage	230 V / 50 Hz
Switching capacity	250 V / 50 Hz, 5 A
Operating temperature range	-20 °C bis +50 °C
Switching time	3 minutes
Switching delay	min. 0,5 seconds
Power reserve	8 hours
Connection	0.5 – 2.5 mm <sup>2</sup> single wire
Colour	ultra white (similar to RAL 9010)
Dimensions (LxWxH)	80x80x48 mm (with frame)
Degree of protection	IP20
Protection class	II
Conformity	CE
EAN	4260336110309

# **i** FUNCTION OVERVIEW

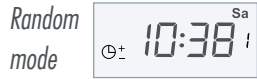
## Weekly schedule 0 (without time function)



Manual mode

> In manual mode  
Switching times  
cannot be set

## Weekly schedule 1 (Weekly programme)



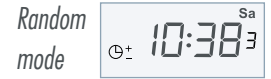
> Switching times can be  
set individually for  
each day of the week

## Weekly schedule 2 (Daily programme)



> A common switching time  
can be set for  
the entire week

## Weekly schedule 3 (Working week + Sat and Sun)



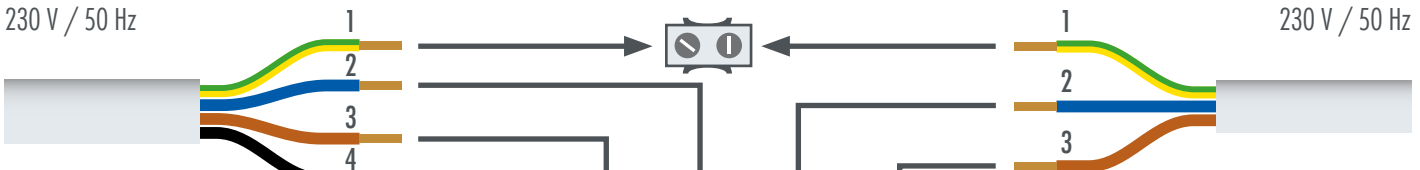
> A common switching time  
can be set for Mon - Fri /  
Individual switching times  
for Sat + Sun

# **WIRING PLAN**



## Roller shutter motor

230 V / 50 Hz



- 1) green/yellow = PE Protective conductor
- 2) blue = N Neutral conductor
- 3) black = Departure or ascent
- 4) brown = Departure or ascent

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

## Connections

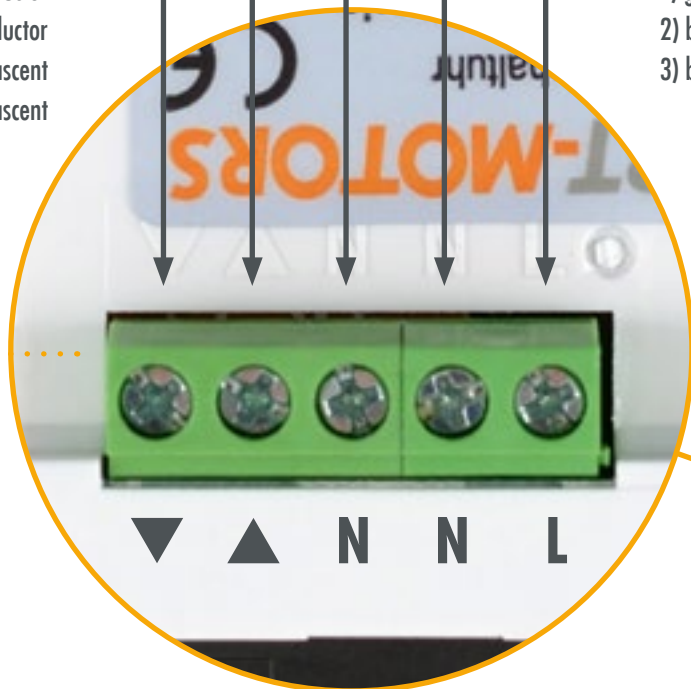
(from left to right)

### Roller shutter motor

- ▼ Departure
- ▲ Ascension
- N: Neutral conductor

### Netz

- N: Neutral conductor
- L: L1 230 VAC



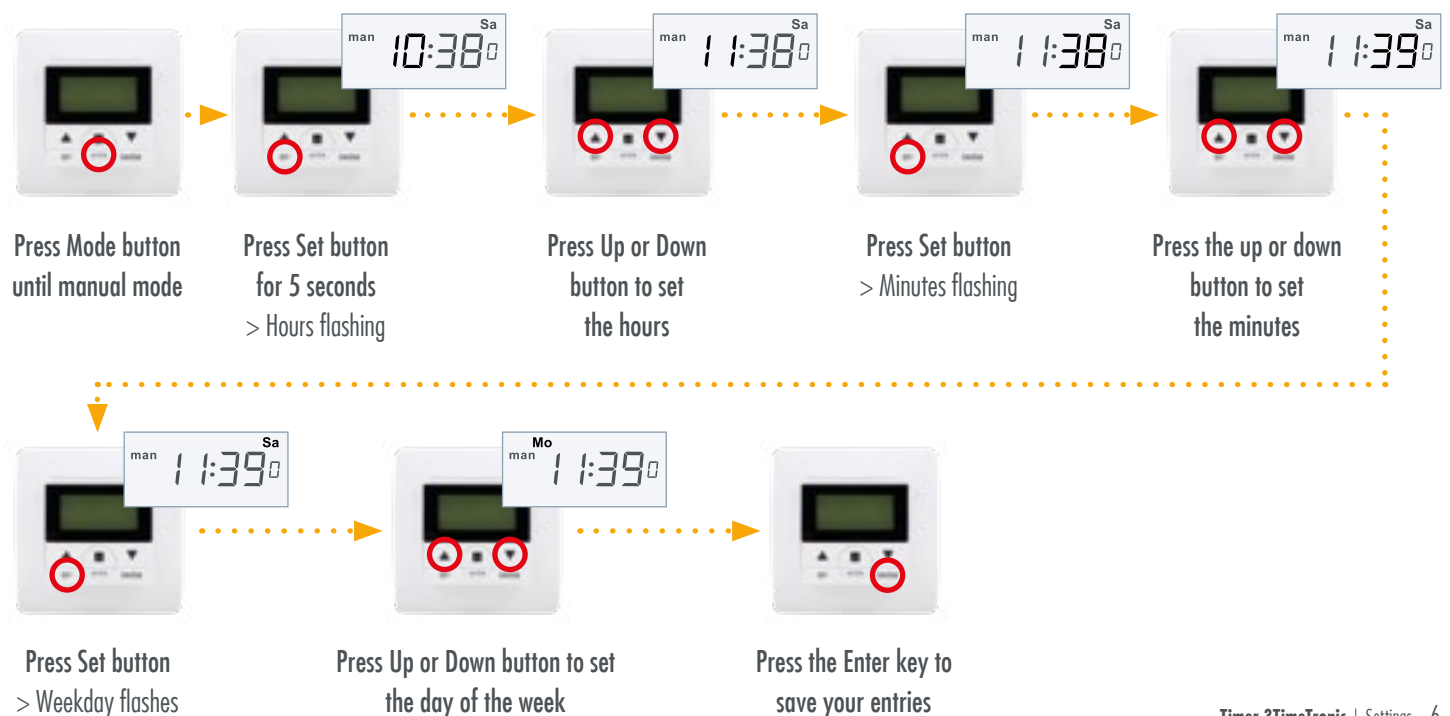
3TimeTronic Back

## Set operating mode / weekly schedule:



Operating modes / Weekly schedule	
Manual mode/0	Manual control without time function
Auto mode/1	Automatic control with time function / Switching times can be set individually for each day of the week
Auto mode/2	Automatic control with time function / A common switching time can be set for the entire week
Auto mode/3	Automatic control with time function / Mon - Fri one common switching time / Sat + Sun individual switching times
Random mode/1, 2, 3	Identical to Auto mode / Random generator shifts the switching times by $\pm 15$ minutes

## Set the time and day of the week:



## Set up and down times Weekly schedule 1:

Each day of the week (Mon - Sun) can be set individually



Pressing the stop button ends the adjustment process!



The time difference between the set up time and down time must not be less than 32 minutes. Otherwise, the display will show 'Error'.



Press Mode button until Auto Mode/1 or Random Mode/1



Press Set button for 5 seconds  
> Up time is displayed



Pressing Up or Down button displays the switching times for the days of the week



Press Set button  
> Up time hours flashing



Press Up or Down button to set the hours



Press Set button  
> Up time minutes flashing



Press Up or Down button to set the minutes



Press Enter button to save the up time  
> Down time hours flashing



Press Up or Down button to set the hours



Press Set button  
> Down time minutes flashing



Press Up or Down button to set the minutes



Press Enter button to save the down time  
> Switching time for one day of the week is set. Switching time for next day of the week is displayed; Up time hours flashing.



Press Stop button to exit the setting process

> Current time and day of the week are displayed

> Set the up and down times for each day of the week as described above.

## Set up and down times Weekly schedule 2:

A common switching time for each day of the week



Pressing the stop button ends the adjustment process!



The time difference between the set up time and down time must not be less than 32 minutes. Otherwise, the display will show 'Error'.



Press Mode button until Auto Mode/2 or Random Mode/2



Press Set button for 5 seconds  
> Up time for Mon-Sun is displayed



Press Set button  
> Up time hours flashing



Press Up or Down button to set the hours



Press Set button  
> Up time minutes flashing



Press Up or Down button to set the minutes



Press Enter button to save the up time  
> Down time hours flashing



Press Up or Down button to set the hours



Press Set button  
> Down time minutes flashing



Press Up or Down button to set the minutes



Press Enter button to save the down time  
> Switching times for one week are set (same switching times every day).

> Current time and day of the week are displayed

## Set up and down times Weekly schedule 3:

Mon–Fri: one shared switching time / Sat + Sun: individual switching times



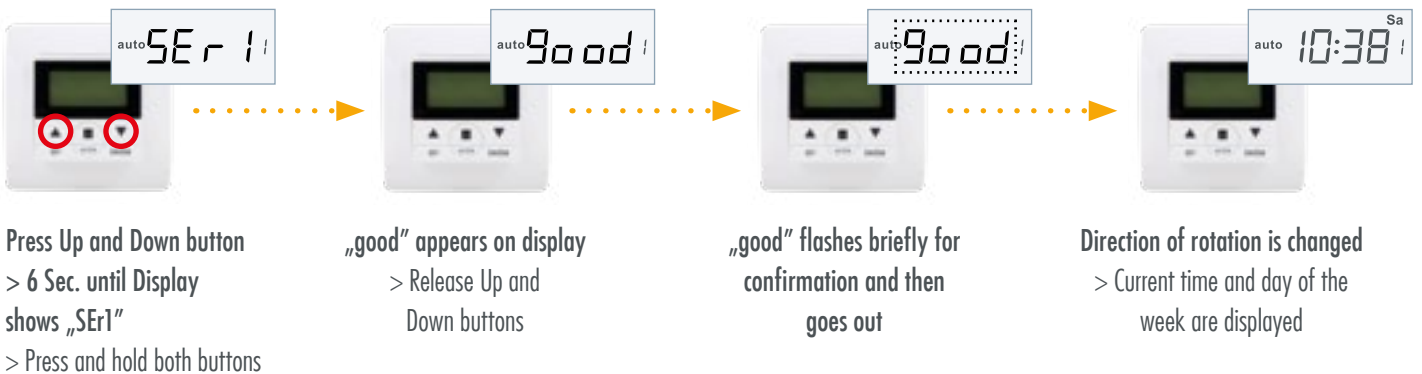
Pressing the stop button ends the adjustment process!



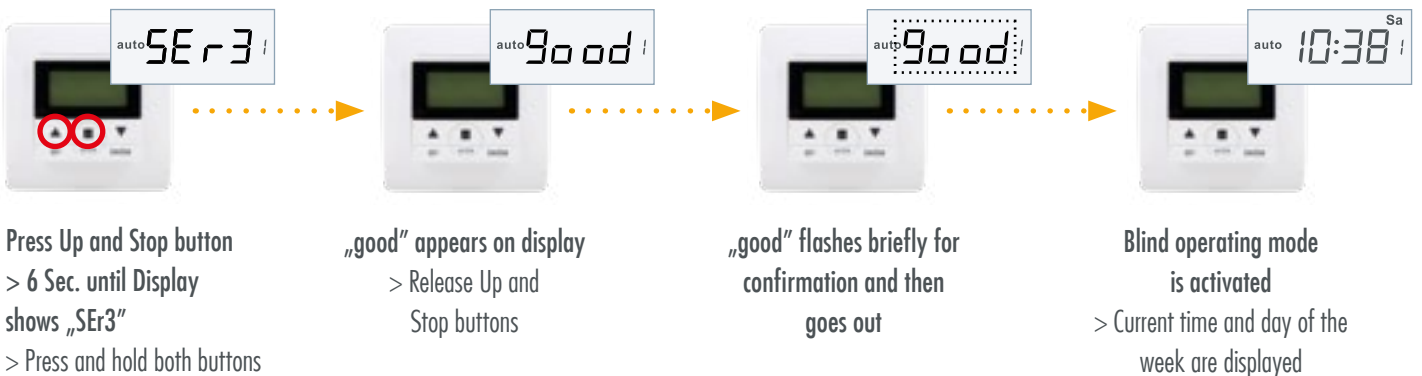
The time difference between the set up time and down time must not be less than 32 minutes. Otherwise, the display will show 'Error'.



## Change direction of rotation:



## Changing the operating mode for roller shutters and blinds:

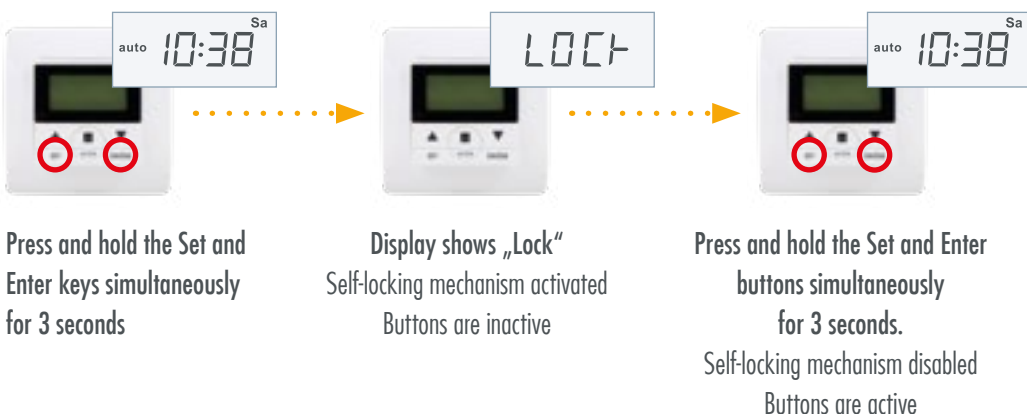


This setting allows you to switch from shutter mode to blind mode and vice versa.

**Roller shutter operating mode:** Motor immediately switches to self-retaining mode when a direction button is pressed.

**Blind operating mode:** Jog mode possible. Only when the direction button is pressed for longer than 2 seconds is self-holding activated.

## Self-locking (child safety lock):



# TROUBLESHOOTING

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## WHAT TO DO WHEN ...

### **...the automatic transmission or holiday mode doesn't work?**

- Operating mode is not set to Auto mode or Random mode.
- 

### **...the automatic shifting doesn't work at the set times?**

- Incorrect time saved.
  - Wrong day of the week saved.
  - Incorrect up and down times were saved.
  - The time difference between the up and down times must not be less than 32 minutes.
- 

### **... blinds or external venetian blinds should be controlled?**

- The switching of the operating mode from "roller shutter" to "blind" and vice versa is made possible by the corresponding programming on page 10:

- Press and hold the Up and Stop buttons for 6 seconds until „SEr3“ appears on the display. Keep both buttons pressed.
- „good“ appears on the display > Release the up and down buttons
- „good“ flashes briefly to confirm and then goes out
- Blind operating mode is activated > Current time and day of the week are displayed

Roller shutter operating mode: The motor immediately engages its hold mode when a direction button is pressed.

Blind operating mode: Momentary operation is possible. The hold mode only engages if the direction button is pressed for more than 2 seconds.

## EU Konformitätserklärung

**Wir, die Firma**

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Deutschland

**erklären in alleiniger Verantwortung, dass das weiter unten genannte Produkt**

Geräteart: Zeitschaltuhr für Rohrmotoren

Modell Artikelnummer

3TimeTronic DC400

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

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

**angewandte Standards und Verordnungen:**

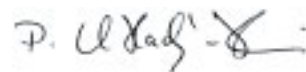
EN 60669-2-1:2004/A12:2010  
EN 60669-2-1/A12:2010  
EN 55014-1:2006/A2:2011  
EN 55014-2:1997/A2:2008  
EN 61000-3-2:2014  
EN 61000-3-3:2013

**Bevollmächtigter zur Zusammenstellung der technischen Unterlagen:**

Name, Position: Patrick El Hadj-Henni, Geschäftsführer

Bad Kreuznach, 02.04.2018

.....  
Datum



.....  
Unterschrift

# INTELLIGENT DRIVES & CONTROLS FOR SHUTTERS AND AWNINGS

*Service and  
quality  
make all the  
difference!*



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