



INSTALLATION AND OPERATING INSTRUCTIONS ROLLTEC PLUS S

ROLLTEC PLUS S



This manual is suitable for the following products:

- Rolltec Plus S (01805050)

Documentnumber: 85601721 G1

Flush-mounted roller
shutter control with
various programmable
functions.

Lesen Sie das Handbuch, bevor Sie mit der Installation beginnen.
Die Nichtbeachtung der Anweisungen kann zu Mängeln führen,
die nicht durch die Garantie abgedeckt sind.
Druckfehler und technische Änderungen vorbehalten.



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SAFETY INSTRUCTIONS

GENERAL SAFETY INFORMATION

These safety instructions are an integral part of the product and must be read and fully understood before installation, electrical connection, commissioning and operation.

- The control unit is intended for the manual and automatic operation of roller shutter drives.
- The device may only be used for its intended purpose as described in this documentation.
- Installation, electrical connection, DIP switch configuration and commissioning may only be carried out by a qualified electrician.
- The control unit must be checked for damage before installation. Damaged devices must not be put into operation.
- Any modification or alteration of the device is prohibited and will void all warranty and liability claims.
- If safe operation of the control unit or the connected shading system can no longer be ensured, the device must be taken out of service immediately and secured against unintended operation.
- The system must be checked regularly for wear, damage and malfunctions.

CRITICAL SAFETY WARNINGS



ELECTRICAL HAZARDS

DANGER – Risk of fatal electric shock.

Disconnect the mains voltage completely before installation and before working on the device.



SAFETY FOR AUTOMATIC, ASTRO AND TIMER FUNCTIONS | CAUTION

– Automatic movement commands may be triggered at any time.



HAZARDS DUE TO ROLLER SHUTTER MOVEMENT | CAUTION

– Risk of injury due to moving parts.



SAFETY FOR SUN PROTECTION FUNCTION AND LUX SENSOR | CAUTION

– Automatic movement due to sunlight.



NOTE

The complete safety instructions can be found at: www.vestamatic.com/safety

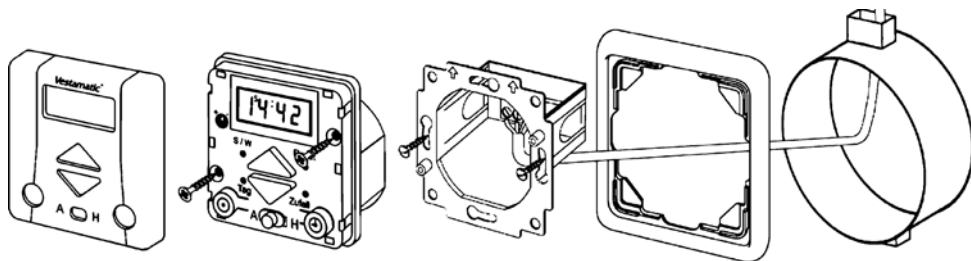


SCAN ME

SUPPORT/CONTACT

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 Am Tannenbaum 2 | 41066 Mönchengladbach
 E-Mail: info@vestamatic.com

TECHNICAL DATA



PARAMETER	VALUE
Power supply	230VAC, 50 Hz
Impulse voltage withstand level	2,5 kV
Rated power	2 W
Output (Retract / Extend)	230VAC, 50 Hz
Switching Capacity	250VAC, 3A, $\cos \varphi \geq 0,8$ ind.
Switching Time	120 Sekunden
Software class	A
Operating temperature	0 °C (32 °F) to +40 °C (104 °F)
IP class	IP40
Degree of pollution	2
Dimensions (L × B × H):	69 × 69 × 54 mm
Colour	signal white (similar to RAL 9016)
Conformität	CE

SCOPE OF DELIVERY



Cover plate



Control unit

Mounting frame
for control unit



Cover frame

Operating
instructions

Adjustment tool

INSTALLATION / WIRING DIAGRAM

NOTES FOR QUALIFIED ELECTRICIANS

- 1. Disconnect the supply voltage.
- 2. Set the DIP switches to the desired function (see following pages).
- 3. Slide the mounting frame through the cover frame and connect it according to the wiring diagram.
- 4. Insert the control unit into the mounting frame and screw them together.
- 5. Switch on the supply voltage and press the reset button.
- 6. Set the selector switch to the Hand position (H) by sliding it fully to the right. Check whether the motor travel direction corresponds to the direction buttons. If the direction is incorrect, interchange terminals 4 and 5.



WARNING

Parallel control of multiple drive motors with conventional motors may only be implemented using isolating relays or group control units.



NOTE

In the event of a power failure, the display contrast changes. Reduced display contrast is not an indication of an empty battery.

ACCESSORIES (NOT INCLUDED IN THE SCOPE OF DELIVERY)

For surface-mounted
installation:



Surface-mounted
housing
(Art.No. 01400250)

For controlling 2 motors, we recommend our isolating relays:



MC TR 2A
(Art.No. 01054120)



MC TR 2S
(Art.No. 01054220)



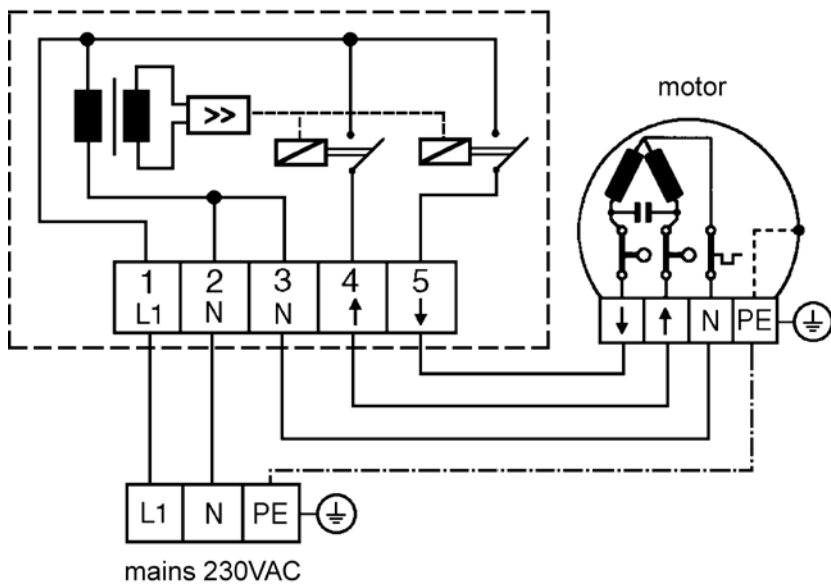
MC TR 2S FMT
(Art.No. 01054230)



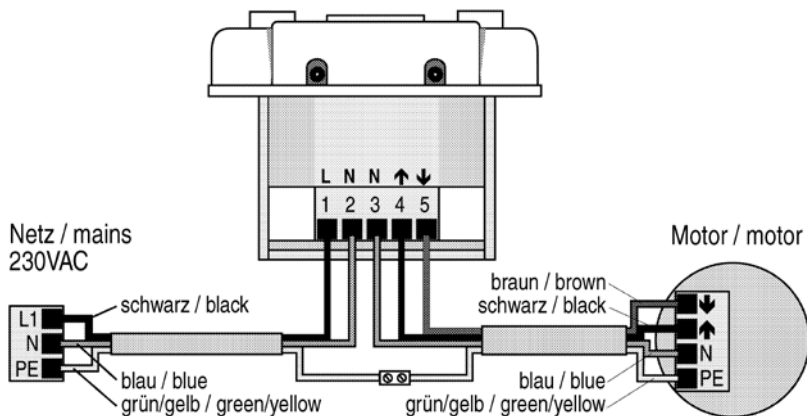
MC TR 2S / MR
(Art.No. 01054520)

INSTALLATION / WIRING DIAGRAM

WIRING DIAGRAM

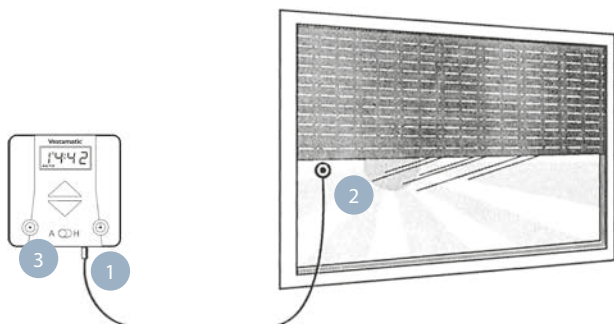


CONNECTION EXAMPLE



INSTALLATION / WIRING DIAGRAM

INSTALLATION OF THE LUXSENSOR



NOTE

A light sensor is required for the additional Sun Protection function on every control unit.

- 1. Plug the light sensor connector into the right-hand socket of the control unit.
- 2. Attach the light sensor at the desired position on the window pane.
- 3. Set the selector switch to Automatic Mode (A) (slide it to the left until it clicks into place).

TEST RUN OF THE ADDITIONAL SUN PROTECTION FUNCTION

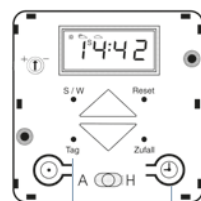
To test the Sun Protection function after installation, activate the Fast-Forward Function (this causes the clock to run ten times faster). This allows the complete function sequence to be checked within a short period of time.



NOTE

All programmed times and other functions can also be tested using the fast-forward function..

Activate Fast-Forward:
Press and hold the **Day / Time button >3 Sec.**

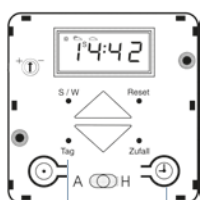


Day Time

EXAMPLE TEST RUN OF THE ADDITIONAL SUN PROTECTION FUNCTION:

Check whether the current time is within the programmed extension and retraction times.

Activate Fast-Forward:
Press and hold the **Day / Time button >3 Sec.**



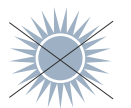
Day Time

Apply light/sunlight to the sensor until the sun symbol flashes.



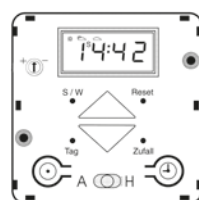
After 1 second, the roller shutter moves to the shading pos.

Remove the light source until the sun symbol flashes again.



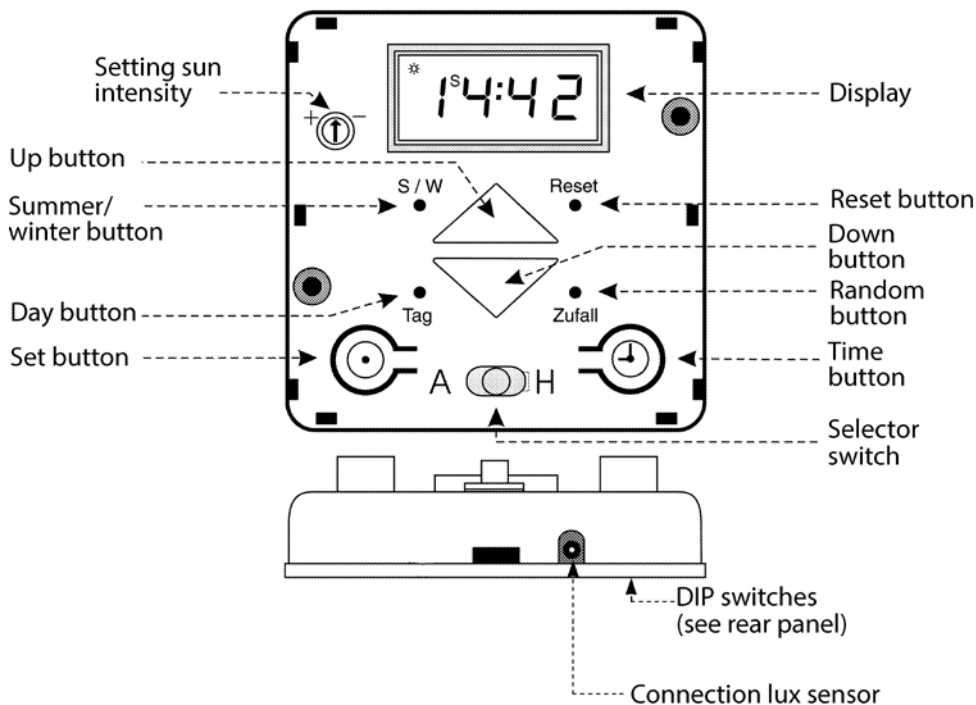
After 16 seconds, the roller shutter moves back up.

End test mode:
Press and hold the **Day / Time button >3 Sec.**



Then set the current time as described.

OVERVIEW OF CONTROLS

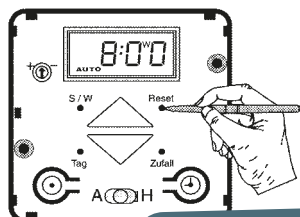


SETTING / PROGRAMMING

INITIAL COMMISSIONING

RESET BUTTON:

After installation, remove the cover plate by gently pulling it off and press the reset button. This activates the factory default settings.



Please perform a reset before programming!

FACTORY SETTINGS:

- Current time: 08:00
- Extension time: 06:00
- Retraction time: 20:00

SETTING / PROGRAMMING

ACTIVATING MANUAL CONTROL

Activate Manual Mode:
Set the selector **switch to H**



All automatic functions are disabled. When the UP or DOWN button is pressed, the roller shutter moves up or down.

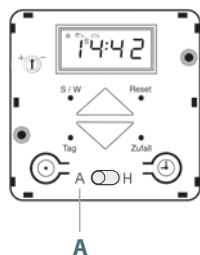
To stop the movement, simply press the opposite direction button, i.e.:

- If the roller shutter is moving up, press the DOWN button.
- If the roller shutter is moving down, press the UP button.

A further UP or DOWN movement is only possible after pressing the corresponding UP or DOWN button again. This ensures precise positioning of the roller shutter.

ACTIVATING AUTOMATIC CONTROL

Activate Automatic Mode:
Set the selector **switch to A**.



The roller shutter moves up and down at the programmed times. Manual operation outside the programmed times is possible at any time.

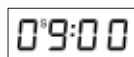
To do this, press the ▲ or ▼-button for more than 2 seconds.

Automatic operation can also be interrupted for a longer period. To do so, set the selector switch to **Manual Control (H)**. After switching back to **Automatic Control (A)**, operation continues according to the programmed times.

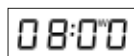
SETTING SUMMER / WINTER TIME

The display indicates which time setting is active.

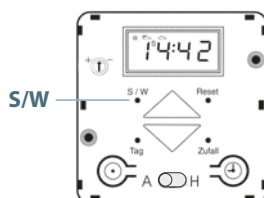
(S) = Summer time



(W) = Winter time



Change Current Time Setting: Press the S/W button



S or W appears in the display. The displayed time changes by 1 hour.

SETTING / PROGRAMMING

S OR W APPEARS IN THE DISPLAY. THE DISPLAYED

VARIANT 1

Change current time::
Press and hold the **Set-button + Time button**

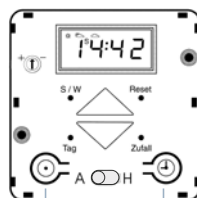


Faster progression of
the current time

Set-b. **Time-b.**

VARIANT 2

Change current time: Press
and hold the **Set-button +**
press the Time button x1



Slower progression of
the current time

Set-b. **Time-b.**

CHANGING THE EXTENSION TIME

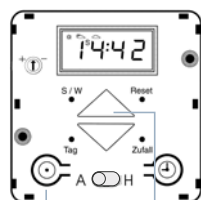


NOTE

For the following programming steps, it is important that the Auto-
matic / Manual selector switch is set to **AUTOMATIC MODE (A)**.

VARIANT 1

Change extension time:
Press and hold the **Set-**
button + Press and hold ▲

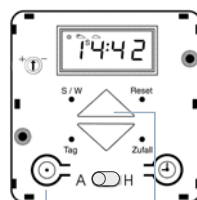


Schneller Vorlauf der
Auffahrtzeit

Set-b. **Up-b.**

VARIANT 2

Change extension time:
Press and hold the **Set-**
button + Press ▲ **x1**



Langsamer Vorlauf der
Auffahrtzeit

Set-b. **Up-b.**



NOTE

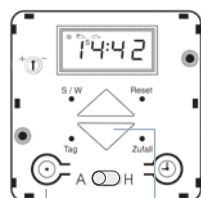
To check the programmed value, briefly press the ▲-button.
The programmed extension time appears in the display. After
approximately 2 seconds, the display automatically returns to the
current time.

SETTING / PROGRAMMING

CHANGING THE RETRACTION TIME

VARIANT 1

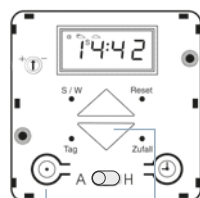
Change retraction time: Press and hold the **Set-button + Press and hold** ▼



Faster progression of the retraction time

VARIANT 2

Change retraction time: Press and hold the **Set-button + Press** ▼ **x1**



Slower progression of the retraction time



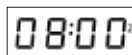
NOTE

To check the programmed value, briefly press the ▼-button. The programmed retraction time appears in the display. After approximately 2 seconds, the display automatically returns to the current time.

SETTING THE RANDOM FUNCTION

The random function causes the roller shutter to move up and down with a deviation of up to ± 15 minutes from the previously programmed times (*). This creates the impression that the house is occupied and provides additional protection during extended periods of absence.

(Z) indicates that the random function is active.



Activate Random Function: Press the **Random button**.



Random



NOTE

The random function disables any tilting function that may have been set (see following pages).

Z appears in the display.

SETTING / PROGRAMMING

SPECIAL FUNCTIONS | EXPLANATION / DIP SWITCH FUNCTIONS

The DIP switches are located on the rear side of the control unit.

ASTRO FUNCTION / TRAVEL TIME CORRECTION

DIP-Switch:	
DIP 6	CORRECTION
OFF	No delay
ON	DOWN command 30 minutes later

ASTRO FUNCTION SETTINGS – GERMANY

DIP-Switch:				
DIP 2	DIP 3	DIP 4	DIP 5	REGION
OFF	OFF	OFF	OFF	Schleswig-Holstein, Northern Lower Saxony
OFF	OFF	OFF	ON	Mecklenburg-Western Pomerania
OFF	OFF	ON	OFF	North Rhine-W., Southern Lower Saxony
OFF	OFF	ON	ON	Brandenburg, Saxony-Anhalt
OFF	ON	OFF	OFF	Rhineland-Palatinate, Saarland, Hesse
OFF	ON	OFF	ON	Saxony, Thuringia
OFF	ON	ON	OFF	Baden-Württemberg
OFF	ON	ON	ON	Bavaria

ASTROFUNKTION EINSTELLUNGEN EUROPA

DIP-Switch:				
DIP 2	DIP 3	DIP 4	DIP 5	REGION
ON	OFF	OFF	OFF	Scandinavia
ON	OFF	OFF	ON	Great Britain
ON	OFF	ON	OFF	Northern France, Benelux
ON	OFF	ON	ON	Germany
ON	ON	OFF	OFF	Southern France
ON	ON	OFF	ON	Switzerland, Austria, Northern Italy
ON	ON	ON	OFF	Spain
ON	ON	ON	ON	Southern Italy, Sicily, Corsica, Sardinia

SETTING / PROGRAMMING

SPECIAL FUNCTIONS | EXPLANATION / DIP SWITCH FUNCTIONS

TILTING TIME

DIP-Switch:		
DIP 7	DIP 8	TILTING TIME
OFF	FF	none
OFF	ON	2 Seconds
ON	OFF	4 Seconds
ON	ON	10 Seconds

WEEK FUNCTION

DIP-Switch:	
DIP 1	DAY / WEEK
OFF	Day
ON	Week

EXAMPLE DIP SWITCH SETTINGS



Factory setting = **Day function** (S1 = OFF)
 Factory setting = **Astro correction** (S6 = OFF)
 Factory setting = **Tilting function** (S7 / S8 = OFF)
 Factory setting = **Region Schleswig-Holstein**



Week function (S1 = ON)
Astro correction (S6 = OFF)
Tilting function (S7 / S8 = OFF)
Dip switches S2 bis S5 (without function)

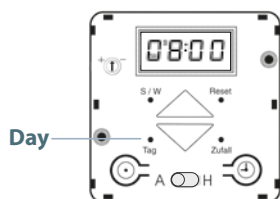
SETTING SPECIAL FUNCTIONS | WEEK FUNCTIONS

The week function allows different extension and retraction times to be programmed for each day of the week. To activate the week function, the DIP switches on the base unit must be set according to the table.

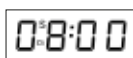
Factory settings:

- Extension time Monday to Friday: 06:00
- Retraction time Monday to Friday: 20:00
- Saturday / Sunday: No times preset.

Programming within week function:
Day button x1 (+)

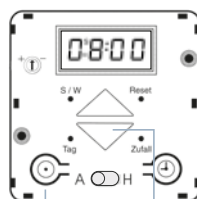


A new weekday appears in the display each time the button is pressed.



Changing the Retraction Time Proceed as described, for example:

Change retraction time: Press and hold the **Set-button + Press and hold** ▼



Set-b. **Down-b.**

Faster progression of the retraction time

SETTING / PROGRAMMING

SETTING SPECIAL FUNCTIONS | ASTRO FUNCTION

The astro function is an electronic calendar that takes sunrise and sunset times into account based on geographical coordinates and automatically adjusts the travel times. In addition, the programmed extension and retraction times are compared with the astro times. To use the astro function, the coordinates of your location must be entered. See previous pages.

ASTRO TABLE

Programmed extension time	before	Morning astro time	Roller shutter moves up at the astro time	Always the <u>later</u> time
Programmed extension time	after	Morning astro time	Roller shutter moves up at the programmed extension time	
Programmed retraction time	before	Evening astro time	Roller shutter moves down at the astro time	Always the <u>earlier</u> time
Programmed retraction time	after	Evening astro time	Roller shutter moves down at the programmed retraction time	



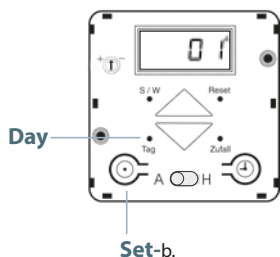
NOTE

Activating the astro function automatically disables the week function.

ACTIVATING THE ASTRO FUNCTION

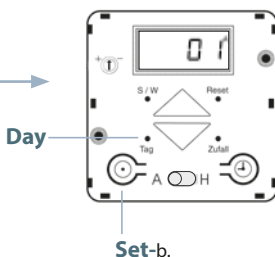
Activating the astro function and setting the current calendar week are performed in a single programming step.

Activate Astro Function:
Press and hold Set-b. +
press Day-b. x2



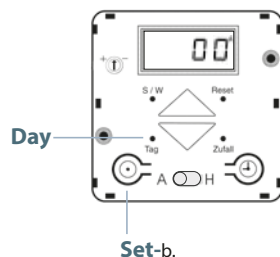
The calendar week (KW) and (A) for Astro appear in the display.

Set Calendar Week:
Press and hold Set-b.
+ press Day-b. x1 (+)



Each press of the Day button increases the calendar week by 1.

Deactivate Astro Function: Press and hold Set-b.
+ press day-b. x1 (+) until
the display shows 00

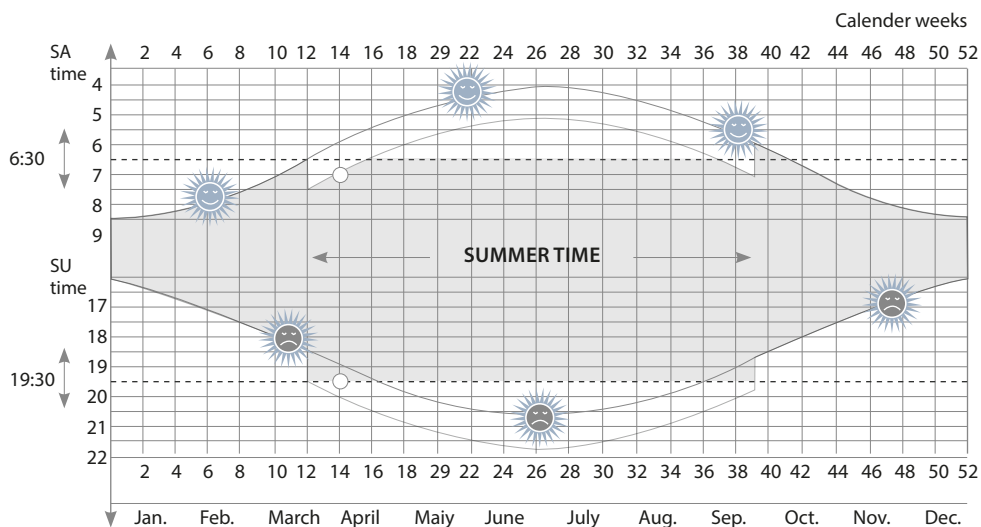


00 appears in the display.

SETTING / PROGRAMMING

SETTING SPECIAL FUNCTIONS | ASTRO FUNCTION – TRAVEL TIME CORRECTION

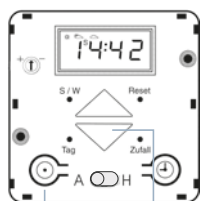
The switching time profile shown on the left takes daylight saving time / summer time into account, based on a programmed extension time of 06:30 and a programmed retraction time of 19:30. These times refer to 10° east longitude and 50° north latitude, corresponding approximately to the geographical location of the city of Würzburg. If **DIP SWITCH 6 IS SET TO „ON“**, the roller shutter retraction is delayed by 30 minutes.



SETTING SPECIAL FUNCTIONS | TILTING FUNCTION

When the tilting function is activated, the roller shutter briefly moves upward again after reaching the programmed retraction position, e.g. for ventilation purposes or to allow pets access through an opening. The tilting time can be adjusted using **DIP SWITCHES 7 AND 8**.

Setting Tilting Time:
Press and hold Set-b. +
 ▼ x1 (+)



Slower progression of the tilting time

Set-b. **Down-b.**

The display shows the tilting symbol (⌋), which flashes during the tilting movement.



NOTE

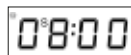
The tilting function is only initiated 2 minutes after completion of the retraction command.

SETTING / PROGRAMMING

SETTING SPECIAL FUNCTIONS | SUN PROTECTION

The Sun Protection function only operates in automatic mode and within the previously programmed extension and retraction times.

If the light sensor is exposed to sunlight, the sun symbol flashes in the display.



- After 1 minute of sunlight exposure, the roller shutter moves down until the light sensor is covered.
- To provide sufficient overtravel for the shading position, the roller shutter then moves back up a few centimetres (shading position).
- If no sunlight is detected for 16 minutes, the roller shutter automatically moves back up.
- The sensor signals are continuously monitored and the roller shutter position is corrected several times throughout the day as required.



NOTE

If you do not wish to use the sun protection function for an extended period, remove the light sensor.






NOTE

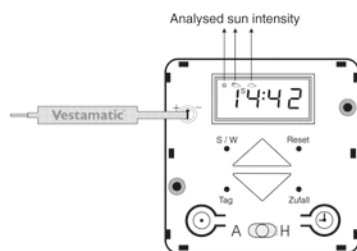
Standard length of the light sensor cable: 1 m.
Extension cables up to 5 m are available for this function.

SETTING RESPONSE SENSITIVITY

The response sensitivity for sunlight intensity is adjusted using a potentiometer with the supplied adjustment tool. To do this, remove the cover plate of the control unit.

- +  The roller shutter moves down even at low sunlight intensity (approx. 12 kLux).
- +  The roller shutter moves down at medium sunlight intensity (approx. 17 kLux).
- +  The roller shutter only moves down at high sunlight intensity (approx. 22 kLux).

- Sun response delay: 1 minute
- Sun reset delay: 16 minutes



TROUBLESHOOTING

PROBLEM:

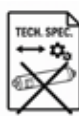
The roller shutter does not move up and down automatically:

- 1 Is the power supply available?
(In the event of a power failure, the display flashes.)
- 2 Is the selector switch set to Automatic Mode (A)?
- 3 Are the programmed extension and retraction times still stored? (Briefly press the UP or DOWN button while in Automatic Mode.)

MAINTENANCE / WARRANTY

The general terms and conditions of sale and delivery of the manufacturer, Vestamatic International GmbH, shall apply. The terms and conditions of sale and delivery form part of the sales documentation and are supplied with the product. Claims for personal injury or property damage are excluded if they result from one or more of the following causes:

- Improper use of the product.
- Opening the product by the customer.
- Improper installation, commissioning or operation of the product.
- Failure to comply with the specified technical specifications.
- Failure to observe the safety regulations and instructions contained in these operating instructions.
- Operation of the product with improperly installed connections, defective safety devices, or missing or improperly installed safety and protective devices.
- Structural modifications to the product.



MAINTENANCE The product is maintenance-free.