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1.0 Features

- Combination of a twilight switch and integrated timer for automatically switching the lighting ON / OFF.
- Timer with weekly and holiday program
- Preselection control and permanent control
- Two ranges of light intensity with fine adjustment
- Switching delay for protection against erroneous switching
- External light sensor (can be installed at up to a distance of 100 m from the device)

2. Description

LU 118top / LU 119top



3.0 Installation

Electrical devices may only be installed and mounted by a qualified electrician. Manipulation and modification of the switch will

result in loss of warranty.

Installing the control unit

- Rail mounting with quick-action profile rail fixture.
- Surface mounting with special mounting kit order no. 907 0 049.

Installation of the light sensor (No. 907 0 008)

The light sensor is installed on the outer wall of a building, on a pole or similar support.

In the case of street lighting, the light entry window should face east and near show case or workshop lighting it should face north. The light sensor and the control unit must be connected using a 2-wire cable with a maximum length of 100 m. Please avoid routing in parallel to power lines (min. line cross-section 2 x 0.75 mm²).

4.0 Electrical Connection



Note: In spite of an internal safety measures, extraordinarily strong magnetic fields can cause interference in the microprocessor-controlled

timers. Interference can be avoided by observing the following items during installation:

- The device must not be installed in the vicinity of inductive consumers.
- Provide a separate line for the mains supply (if necessary, use a line filter)
- Suppress the interference of inductive consumers (varistor, RC element)

After suppressing the interference, the time switch must be reset **(Reset)**.





4.0 Adjusting the Twilight Switch

Select the setting range via the rotary switch

- I = approx. 2 35 Lux (e.g. for outdoor lighting)
- II = approx. 35 2000 Lux (e.g. for indoor lighting)

Adjust the response value (if possible at dusk)

 Slowly turn potentiometer to the right until the red switch status indicator (LED) lights up.

The device features delayed **ON/OFF** switching of approx. 80 s to avoid interference e.g. caused by flashes of lightning or headlights. The contact will connect only if **ACTIVE** is shown on the timer display and the red switching status **LED** is permanently lit for more than 80 s.

The switching status **LED** lights up only if a time-controlled program was programmed and activated (ACTIVE is shown on the display) or if manual switching (manual preselection) (^(h)) or permanent switching (^(h)) • was activated (in this case, ACTIVE is also shown on the display).

5.0 Adjusting the Timer



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5.1 Taking the Switch into Operation

The timer is delivered in what is referred to a "sleep mode".

Activation without service voltage. Briefly press the Menu button.

Activation with service voltage

Connect the timer to the service voltage. If the timer has already been programmed with the current time, the day of the week and the summer/winter time rule, the time and status display will be shown after you have selected the national language.

If the timer is not preprogrammed,

select your national language and then enter the current date and time.

Activating the timer, selecting the national language Press the + or - key to select your national language. Then set the current year, date and time using the + and keys. Store the individual selections by pressing the OK key. You can now start programming. Press the Menu key to call the programming and query routines. Text displays prompt you to make a decision.

- The decision **Yes** confirms the selection or programming (press OK).
- The decision **No** means continue.

Press the + or - key to make settings or changes.

Programming, querying, changing or deleting Always read the text display first.

Menu selection

Select Prog. by pressing the Menu key. Confirm by pressing OK . Press the + key to select the desired menu,

e.g. Neu (new), Abfragen (query), Ändern (change) or Löschen (Delete).

Confirm your selection by pressing OK .

Making or changing settings Press + or - . Store your settings by pressing OK .

Displaying the switching times

In the Abfragen (query) menu, press the OK key several times.

In emergency situations only

If you RESET the timer, all **stored data will be deleted**. The timer, however, will restart with the language and the summer/ winter rule most recently selected. Press the **RES** key for approx. 1 second using a pointed object.

5.2 Programming the Switching Times

Forming day groups

Identical switching times that are to be active on several days of the week occupy just one memory location. **42** memory locations are available.

e.g.: Monday - Friday 7.30 hrs ON.

Forming groups

When the prompt Kopieren (Copy) is displayed, press OK to copy the switching time to another day of the week. When programming an identical time for activation and deactivation, e.g. 9 p.m., the deactivation on 9 p.m. always has priority over the activation.

Program review

Following programming, the timer initiates a program review back to midnight and then sets the correct switching status.

Example

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Switching on the lighting of a sports hall on Mon., Tues., Thurs. and Fri. from 7.30 a.m. to 12 p.m.

Select Prog by pressing the Menu key. Confirm your selection by pressing the OK key. Select New by pressing the + or - key. Confirm your selection by pressing the OK key. Select channel C1 or C2 by pressing + or - (only with LU 119top). Confirm your selection by pressing OK .

Select ON or OFF by pressing + or - . Confirm your selection by pressing OK . Set the HOUR and MINUTE by pressing the + or - key. Confirm each of your selections by pressing OK .

To store one day of the week only

Select the desired weekday by pressing + or - . Confirm your selection by pressing OK . Select STORE by pressing + . Confirm your selection by pressing OK .

To copy to other days of the week

Confirm COPY by pressing + . Select the weekday by pressing + or - . Confirm your selection by pressing OK. To leave out a day of the week, skip it by pressing the + key. Select the STORE display by pressing + . Confirm your selection by pressing OK .

5.3 Permanent ON/OFF, Holiday Program

Always read the text display first!

In the **Man** menu select the Manual \mathcal{P}_{P} , Permanent or \mathcal{P}_{P} . Holiday function by pressing the + or key. Confirm your selection by pressing the OK key.

To cancel a function

Select the Clear function. Confirm your selection by pressing OK .

Only in the AUTO menu!

Manual preselection

Press the two keys + and - simultaneously for approx. 1 s. Channel C1 alternately switches **ON / OFF** or **OFF**/ **ACTIVE** (for LU 119 top channel C2 use + and **OK**). The ^(h) icon appears. The stored program corrects the manual preselection again.

Permanent ON or OFF

Press the two keys + and - simultaneously for approx. 2 s. Permanent ON * or OFF * . (for LU 119top use + and OK).

Cancelling manual preselection/permanent swit-

ching: Briefly press the two keys + and -. (for LU 119top use + and OK .

Holiday program

The holiday program has the effect that the timer does not switch on the connected consumer between the programmed start and end (stipulation of year, month and day). Start and end of the program is always midnight of the day that is programmed.

Example: March 23, national holiday. **Programming**: start 3/25 finish 3/25.

If the holiday program is active, the corresponding channel and holiday icon $\hfill \hfill \hfill$

5.4 Setting Correcting the Date and Time

Automatic summer/winter time correction

Depending on the version, the timer may be preprogrammed ex-works with the summer/winter time rule. If you wish to switch off or change the automatic correction, please read the text display first.

Select the ① icon using the Menu button. Confirm your selection by pressing the OK key. Now use the

+ or - keys to select the year, the date, the time and the summer/winter time and confirm your selections by pressing OK .

Summer/winter time setting freely programmable

By entering the month and week, e.g.: Month 3 = MarchWeek 4 = 4th week of the month Week 5 = last week of the month

6.0 Technical Data	
Operating voltage:	230 V~, ± 10 %
Mains frequency:	50 Hz
Own consumption:	approx. 5 VA
Breaking capacity:	10 A/ 250 V~, $\cos \mathbf{\Phi} = 1$
	6 A/ 250 V~, $\cos \mathbf{\Phi} = 0.6$
Filament lamp load:	2300 W
Halogen lamps 230 V~:	2300 W
Fluorescent lamps:	uncompensated/ compensated in series
	2300 VA
	compensated in parallel 800 VA
	leag-lag circuit 2300 VA
High pressure discharge:	use contactor
lamps	
Brightness range:	2 2000 Lux in 2 ranges
Time base	quartz
Shortest possible	
switching interval:	1 min
Swiching accuracy	precise to the second
Accuracy	\pm 1 s/ day at 20° C

6.0 Technical Data

Power reserve	3 yearsat20° C
Permissible ambient	control unit: - 10° C + 50° C
temperature:	light sensor: - 40° C + 70 ° C
Class of protection	control unit: II if properly mounted
	light sensor: III
Type of protection	control unit: IP 20 in compliance with
	EN 60529
	Surface-mount ligt sensor: IP 54
	with cable connection below the sensor
	Fittable light sensor: IP 65
The time switches compl	y with the directives 73/23/EEC (Low-Voltage
Directive) and 89/336EE	C (EMC Directive). If the time switches are
1.1	

Directive) and 89/336EEC (EMC Directive). If the time switches are used in an installation in combination with other devices , make sure that the overall installation does not cause radio interference. Please observe all the special deviating voltages specified on the device

All changes reserved.

