

System 2000 trigger insert
REG staircase lighting timer

Order no.: 0336 00

Order no.: 0829 00

Function

In combination with the REG staircase lighting timer (DIN-rail type), the System 2000 trigger insert is used for installation or retrofitting of automatic switches or presence detectors in staircase lighting circuits. A manually controlled system can thus be changed into an automatic staircase lighting timer installation.

Trigger inserts are only used for controlling REG staircase lighting timers.

The maximum number of trigger inserts connected in parallel is limited to 8.

When mechanical pushbuttons are used, the number of trigger inserts must be reduced as follows:

Trigger Inserts	non illuminated pushbuttons	illuminated pushbuttons		
		0,35 mA	0,8 mA	1,5 mA
2	any number	16	8	6
3	any number	12	6	4
4	any number	8	4	3
5	any number	4	2	1
6	any number	---	---	---
7-8	---*	---	---	---

* If more than 6 trigger inserts are used together with additional mechanical pushbuttons (extensions), the overload protection of the REG staircase lighting timer may be triggered. The REG staircase lighting timer will then no longer switch off the lights.



Safety warnings

Attention:Electrical equipment must be installed and fitted by qualified electricians only.

Not suitable for disconnection of the mains.

To prevent electric shocks, disconnect the mains (by cutting out the circuit breaker) before working on the device or on the load.

Failure to observe any of the installation instructions may result in fire and in other hazards.

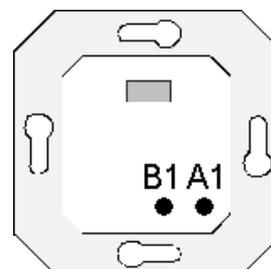
Trigger insert

The trigger insert (fig. 1) is a 2-wire device and replaces the mechanical pushbutton used in staircase lighting installations.

The trigger insert supplies a 60 ms pulse for controlling of the REG staircase lighting timer.

The connection of the System 2000 extension (order no. 0333 00) and the extension for presence detectors (order no. 0335 00) is not possible.

fig. 1



Manual switching

For manual switching applications, the trigger insert is used on an attachment for switching and dimming.

A press on the top, bottom or center surface of the button triggers a pulse independent of ambient brightness. The pulse triggers the REG staircase lighting timer which switches on the lighting or retriggers the timing delay.

The trigger insert transmits a pulse every 6 s as long as the attachment is held depressed.

Automatic switching

For automatic switching of the lighting, an System 2000 automatic switch or a System 2000 presence detector is plugged onto the trigger insert.

The trigger insert transmits a pulse when a movement is being detected and when the ambient brightness is below the preset brightness threshold.

The ON-time of the REG staircase lighting timer is retriggered independent of brightness as long as movements inside the detection field are registered.

For this purpose, the trigger insert transmits a new pulse every 6 s.

REG lighting timer

The REG staircase lighting timer is an electronic staircase lighting timer with low switching noise for installation on DIN rails in distributions.

Important:

- The trigger insert cannot be combined with the radiocontrol attachment for switching and dimming.
- The lighting cannot be switched off manually.

As an alternative, a mechanical pushbutton with make contact (only with a maximum of 6 trigger inserts, refer to the table above) which switches on the lighting independent of brightness or which retriggers the ON-time of the REG lighting timer can be used. Switching off of the lighting is not possible.

Important:

- The attachments used on the insert must correspond to release level „R3“.
- The combination of detector attachments, presence detector attachments and attachments for switching and dimming in a circuit is possible. The number of trigger inserts that can be connected in parallel is still limited to a maximum of 8 inserts.
- The „time“ potentiometer of the presence detector attachment 'Komfort' is not functional.
- The shutoff delay of the automatic switch 'Standard' is not evaluated.
- The operating mode selection switch of the automatic switch 'Komfort' is not functional.
- The „time“ potentiometer of the automatic switch 'Komfort' must be set to short-time operation as there is otherwise a risk of malfunctions.
- If the REG staircase lighting timer is set to an ON-time of less than 30 seconds, the lighting may go on and off repeatedly during the initialization stage of the automatic switch 'Komfort'.

The REG lighting timer switches on the light after receiving a corresponding trigger pulse. The sensing of brightness performed by automatic switches and presence detectors is deactivated during the ON-time of the device and the brightness is not evaluated.

When the time preset at the REG staircase lighting timer is out and if no new movement is detected by a trigger insert with automatic switch / presence detector or if the timer is not retriggered from a pushbutton, the REG lighting timer transmits a shutoff signal to all connected trigger inserts. Trigger inserts equipped with a automatic switch or presence detector attachment are now locked for a variable time of up to 3 s before movements are again evaluated.

Uncontrolled restarting by detection of a cooling lamp is thus prevented.

Settings

ON-time / mode of operation

ON-time (1) and mode of operation (3) are preset on the REG lighting timer (fig. 2).

Time setting (1): approx. 10 secs. to approx. 10 min.
Operating modes (3): OFF (2) / Automatic (5) / ON (4)

The switching state is indicated by an LED in the mode control (3) knob: LED on = lighting is on.

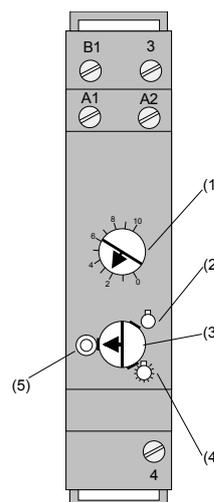
Brightness threshold

The brightness threshold is preset on the attachment. For more details, see the operating instructions of the respective attachment.

For function testing, the „Lux“ potentiometer of the attachment must be set to the daytime symbol ('sun' symbol).

For activation at darkness, a setting of 10 lux is recommended. The precise value must be determined depending on individual conditions.

fig. 2



Fitting instructions

Install the trigger insert in a flush-mounting box in acc. with DIN 49073.

Fitting height 1.10 m or 2.20 m depending on the type of attachment used. More information on the device and on fitting can be found in the operating instructions of the respective attachment.

Install the REG staircase lighting timer by snapping it onto the DIN rail.

Connection for 3-wire installations, fig. 3.

Connection for 4-wire installations, fig. 4.

The total length of the wiring must not exceed a maximum of 100 m.

REG staircase lighting timers must not be connected in parallel.

Important:

The REG staircase lighting timer is equipped with an internal overload protection responding to temperature.

When the overload protection is triggered, the lights are switched on and the power supply to the trigger inserts is interrupted.

- **For this reason, avoid installing REG staircase lighting timers side by side.**
- **Avoid sources of heat (e.g. REG dimmers) in the immediate vicinity of the REG lighting staircase timer.**

Ensure sufficient dissipation of heat.

fig. 3

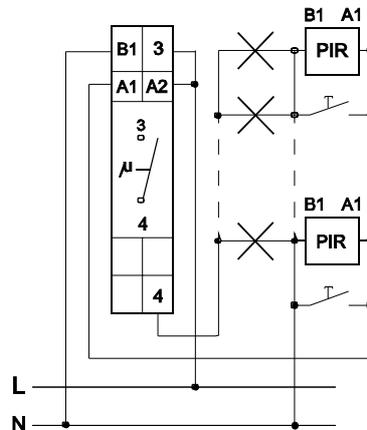
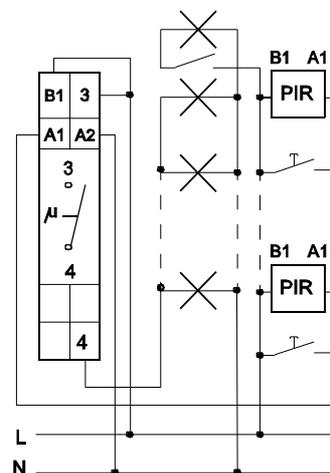


fig. 4



Technical data

Trigger insert

Rated voltage:	AC 230 V ~, 50 / 60 Hz
Power consumption:	approx. 0.5 W
Switching:	60 ms pulse via Mosfet
Brightness:	see attachment operating instructions
Number of devices in parallel:	max. 8 (without mechanical pushbutton, refer to table)
Connecting terminals:	max. 4.0 mm ²
Overall length of wiring:	max. 100 m

REG staircase lighting timer

Rated voltage:	AC 230 V ~ / 50 Hz
Power consumption:	approx. 1 W
Width:	1 module
Rated switching capacity:	16 A / AC 250 V ~
Incandescent lamps:	1000 W
Fluorescent lamps	
Lead-lag circuit:	1000 W
Electronic ballast:	700 W
Inductive load cos j = 0.6:	5 A (at AC 230 V ~)
Duty cycle:	100 %
Temperature range:	-5 °C ... +50 °C
Radio interference suppression:	in acc. with EN 55014
Connecting terminals:	max. 4.0 mm ²

Acceptance of guarantee

We accept the guarantee in accordance with the corresponding legal provisions.

Please return the unit postage paid to our central service department giving a brief description of the fault:

Gira
Giersiepen GmbH & Co. KG
Service Center
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D-42477 Radevormwald



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