

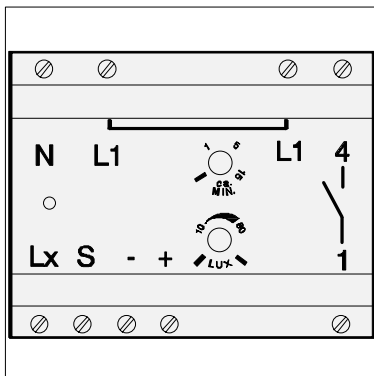
Observer System Power Booster REG 1channel Order No. 0850 00

Observer System Power Booster REG 2channel Order No. 0851 00

Operating principle

The System Power Boosters REG 1channel and 2channel are further components of the observer system. The devices are being made for installing to distributors and therefore offer a central controlling switching commands by the system sensors.

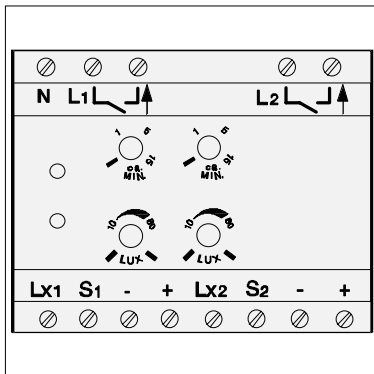
For descriptions of the observer system please manual to “Observer SYstem“.



System Power Booster REG 1channel

The potentialfree contact can separate the driving from the load circuit.

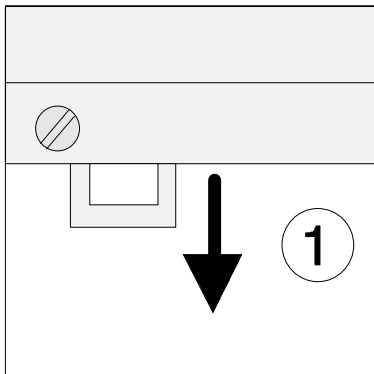
This contact may be operated via first voltage range and may be linked with further functions (e.g. time switch clock).



System Power Booster 2channel

The device is equipped with 2 power switches (relays). One of the power switches is potential maintained. The other one is made with contact for switching any phase. Due to this a relationship with a 230 V time switch clock would become possible.

Attention: Do not use first voltage range!

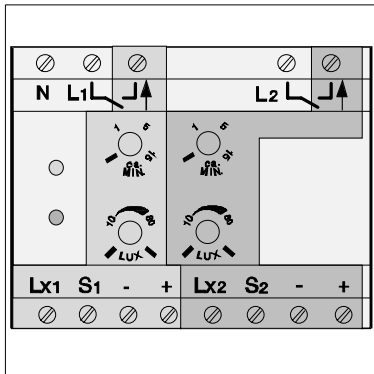


Installation of System Power Boosters REG 1channel and 2channel

Caution! Installation of electrical devices may only be carried out by a skilled person.

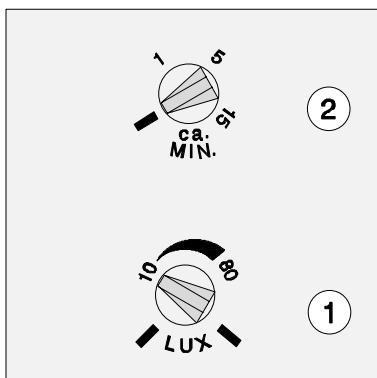
To be installed in series and snapped-on to cup-shaped track. To resolve pull-out interlocking slide ① and pull-off System Power Booster REG from cup-shaped track.

For connection please see switching diagram (see chapter connection).



Settings

Following are explanations for setting which are to be executed separately per channel. Brightness setting of photo-electric switch and time setting can be adjusted separately for each channel. Grey markings (fig.) indicate channel belonging to setting referred to system sensor and load terminal (System Power Booster REG 2channel).

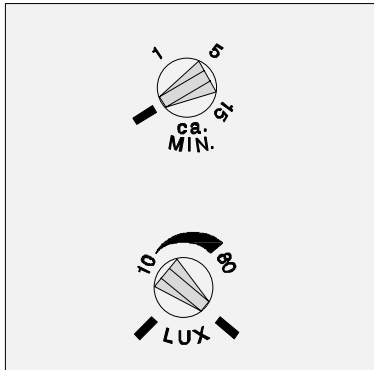


Setting of brightness ①

Exemplary see diagram for setting brightness of 10 lux to activate the device at twilight.

Setting of time ②

approx. 4 secs. to approx. 15 mins.



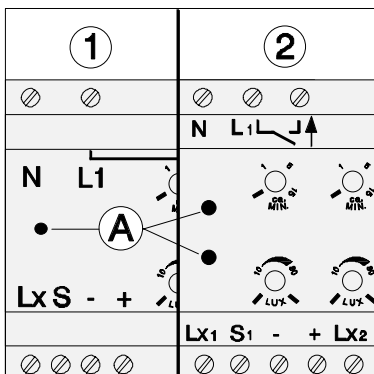
Starting

Connect system-sensors successively (see diagrams in booklet "Observer System") and check separately to ensure operation.

Test function by checking the angle of detection of every system-sensor step by step.

Setting time approx. 4 secs (anticlockwise)

Setting brightness day-operation (clockwise)



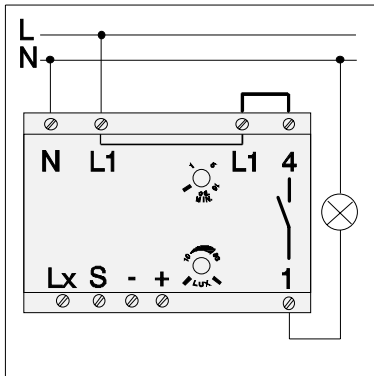
The optical displays (A) of the System Power Booster REG 1channel ① respectively 2channel ② signalise the switching-on of load.

Caution!

Upon disconnection of the system power booster, wait for approx. 3 seconds before reactivation, in order to prevent reactivation due to cooling down of the lamp.

Reactivation will be possible by reflection of heat radiation from the lighting fixture or due to too short a distance between the system sensor and the lighting fixture.

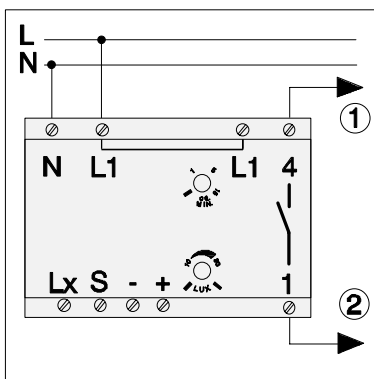
By switching-on mains a switching operation of the Power Booster is being released (not depending on position of brightness regulator).



Connection of System Power Booster REG 1channel

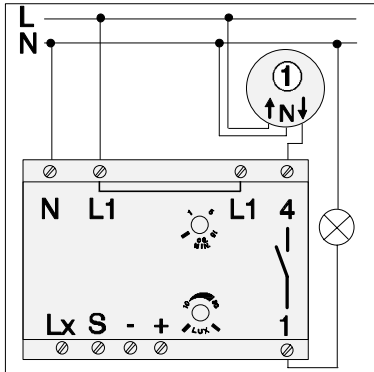
For connecting system sensors please see booklet "Observer System" (terminal Lx, S, -, +)

Bridge between L1 and 4 when using same phase.



For switching first voltage range use a potentialfree contact.

To ① and ② connect load circuit of first voltage range.



Example for application with time switch clock ① (clock with 230 V switching output).

Caution! Consider a maximum switching load of time switch clock.

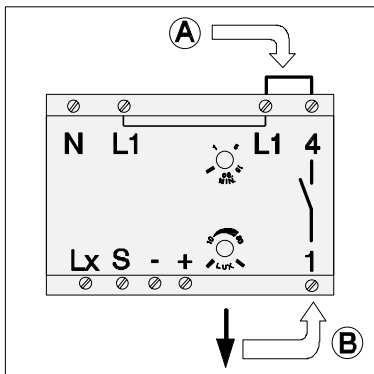
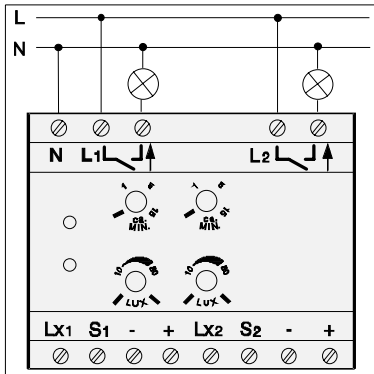


Diagram as shown in the booklet "Observer System" may be taken for the System Power Booster REG 1channel, if:

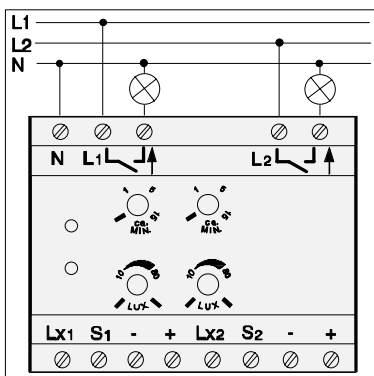
- A) an insulated wire bridge (min. 1,5 mm²) is being installed between terminal L1 and terminal 4 of the System Power Booster REG.
- and
- B) terminal 1 (output end) of the System Power Booster REG is being loaded as terminal 1 (output end) of System Power Booster for surface mounted installation.



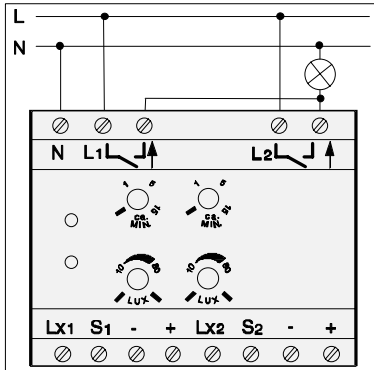
Connection of System Power Booster REG 2channel

For connecting system sensors please see booklet "Observer System" (terminal Lx, S, -, +)

Connection of both channels on one phase.
Maximum connection load per channel 2500 W.

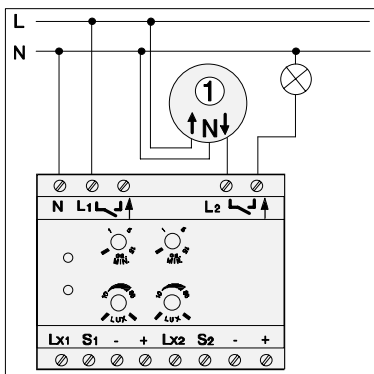


Connection on different phases.
Maximum connection load per channel 2500 W.



Connection of all system sensors on one load (time and lux setting separately per channel).

Attention: Maximum connection load 2500 W.



Example for application with time switch clock ① (clock with 230 V switching output).

Caution! Consider a maximum switching load of time switch clock.

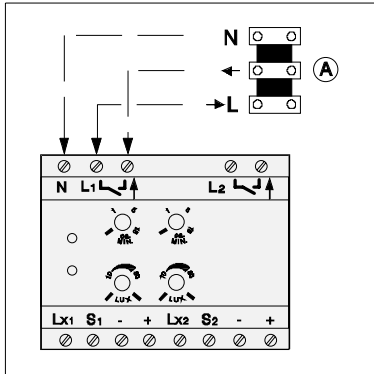
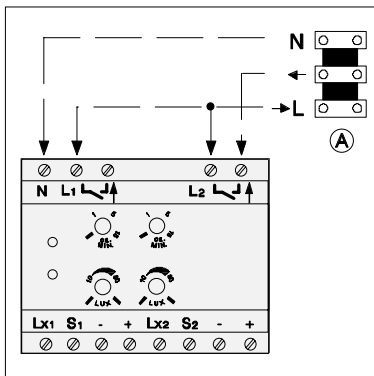


Diagram as shown in the booklet "Observer System" may be taken for the System Power Booster REG 2channel, if:

terminals for potential maintained contact are connected, for explanation please see instructions for terminals (A) from booklet "Observer System"

or



terminals for potential free contact (any phase) are connected, for explanations please see instructions for terminals (A) from booklet "Observer System".

Technical data

Rated voltage:	230V +6%/-10%, 50 Hz
Switching capacity per channel:	
Stand. incandescent lamps	2500W
HV-halogen lamps	2500W
Fluorescent lamps	
uncompensated	1200W
parallelly compensated	920W
Duo switch	2400W
Rated current per channel:	10 A
Inrush per channel:	max. 20A
Temperature range:	- 25°C to 55°C
Switching-on time:	approx. 4 sec to approx. 15min, Retrigger Precision -50%/+80%
Setting of brightness:	approx. 3 to approx. 80 Lux, Precision + / - 50%
Radio interference suppression:	according to VDE 0875 part 1/12.88
Wiring of system-sensor:	e.g. JY-ST-Y 2x2x0,6 JY-ST-Y 2x2x0,8 or YR 4x0,8 max. length 100m
Width:	4 TE
Type of protection:	IP 20

System Power Booster 1channel

Switching contact:	Relay potentialfree contact
For operation with d.c. voltage a suitable load relay is essential.	
Minimum load:	12 V AC/ 100 mA
Power consumption:	approx. 1,1W
Number of system-sensors:	max 8

System Power Booster 2channel

Switching contact:	1 x relay switched phase 1 x relay potentialfree contact for any phase
No protective first voltage range switchable	
L Power consumption:	approx. 1,8 W
Number of system-sensors:	max 16 (8 system sensors per channel)

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
Dahlienstrasse 12
D-42477 Radevormwald



The CE sign is a free trade sign addressed exclusively to the authorities and does not include any warranty of any properties.

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