

# Light-value control switch for 3 circuits, type LWS3

Light-sensor-controlled light value control switch for all kind of lamps

Order-No.: 50.14.016

The LWS 3 switches all connected lamps in dependence of the daylight.

It has an autonomous current supply.

The sensor acquires the daylight and transmits it as control voltage to the LWS 3 which switches the lighting according to the set value. The light sensor acquires only daylight. It is of the protective type IP 55 and consequently can be mounted outside or inside a building. Inside a room it should be mounted close to a window or the best possible acquisition of daylight.

## Working range

with the slide switch the required working range can be set between lux x 1 or lux x 20 (one range between 10 and 1000 lux, the other one between 200 and 20000 lux).

## Light level setting

With the 3 rotary potentiometers the 'switch OFF value' for each circuit are being set. The hysteresis for the switch ON level is 10%. If the daylight falls 10 % below the set light level, lighting for the respective circuits switches ON again.

## Indication of the switch state

3 LED's at the LWS 3 indicate the expected switch state. As soon as a LED lights the lighting is switched ON or will be switched ON after the set delay time.

## Delay times

Can be set between 5 secs and 20 min. individually for the switch ON as well as for the switch OFF.

## Switch ON interlock

A slide switch (ON/OFF) activates or deactivates the automatic operation of the LWS3. If it is activated an external pushbutton manually operates the lighting (this however is only possible if the daylight does not exceed the set light level). With the same pushbutton lighting can be switched OFF manually.

## Load capacity

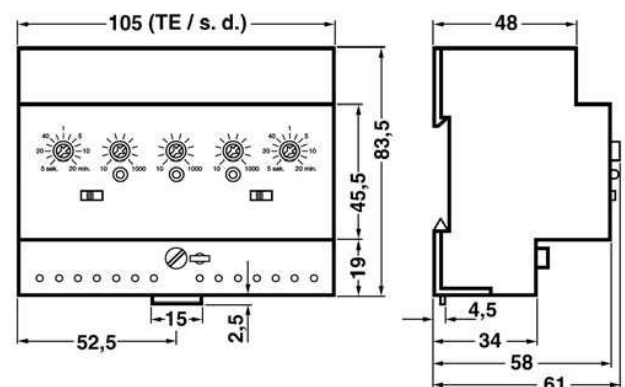
The LWS 3 has an own switch capacity of max. 3x10A/250V~. With its voltage-free contact external relays or contactors can be switched.



## Technical data:

Characterization	light-value control switch LWS3
Type	: LWS 3
Order-no.	: 50.14.016
Power supply	: 230V, 50/60 Hz
Max. contact load	: 10A/250V~ or 10A/30 V~
Protection	: external 6 A
Ambient temperature	: max. 45°C with natural air-convection (at vertical mounting position)
Terminals	: 0,5 – 2,5 mm <sup>2</sup> , solid wire or litz wire with sleeve
Wire length	: max. 100 m
Own consumption	: approx. 3VA
control voltage	: 0..5V light sensor, pushbutton galvanic separated
	<b>No protective low-voltage</b> (Basic isolation according to IEC 664,10/92)
Housing	: plastic for DIN rail systems
Dimensions	: WxHxD = 105x83,5x61 mm
Weight	: approx. 400gr
Protective type	: IP 20
Contamination grade	: 2 (dry, non-conductive according IEC 664,10/92)
Requirements	: EMC met accord. to EN 61547 4/96 Low-voltage met acc. to IEC 669-2-1 11/94
Accessory	: 3 light sensors (see page 59)

## Dimensional drawing LWS3

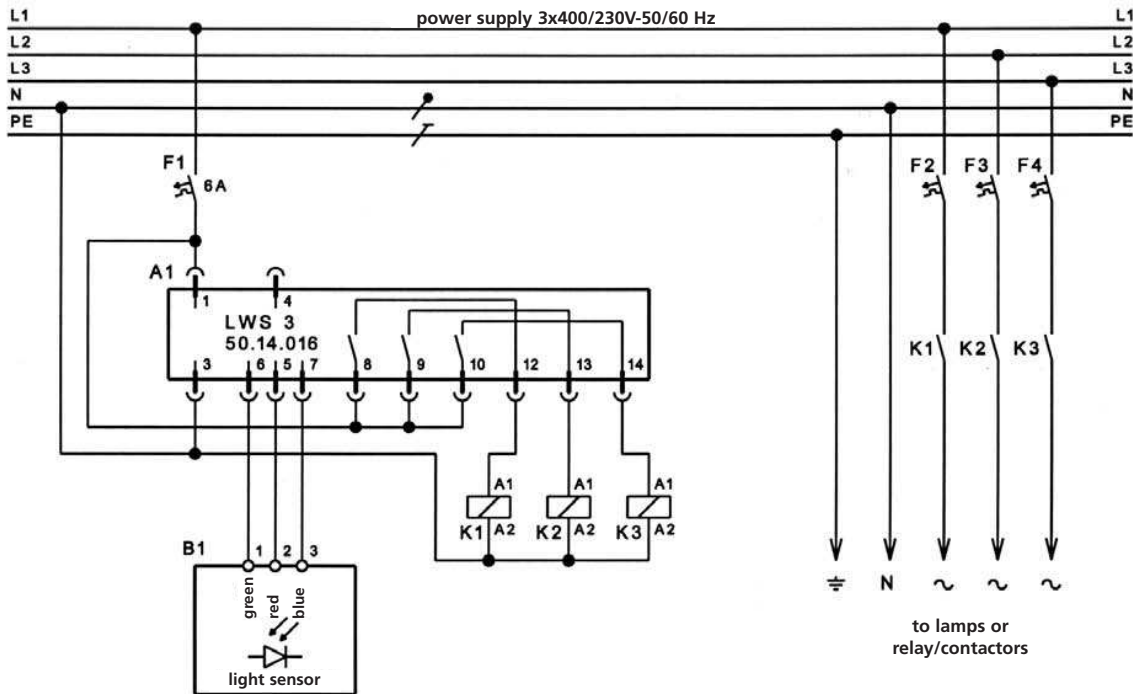


# Wiring diagrams

Light value control switch LWS 3

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## Light value control switch LWS 3 with external relay for the amplification of the switch capacity



## Light value control switch LWS 3 with an external pushbutton ON/OFF, to be operated after the activation of the slide switch ,interlock'

