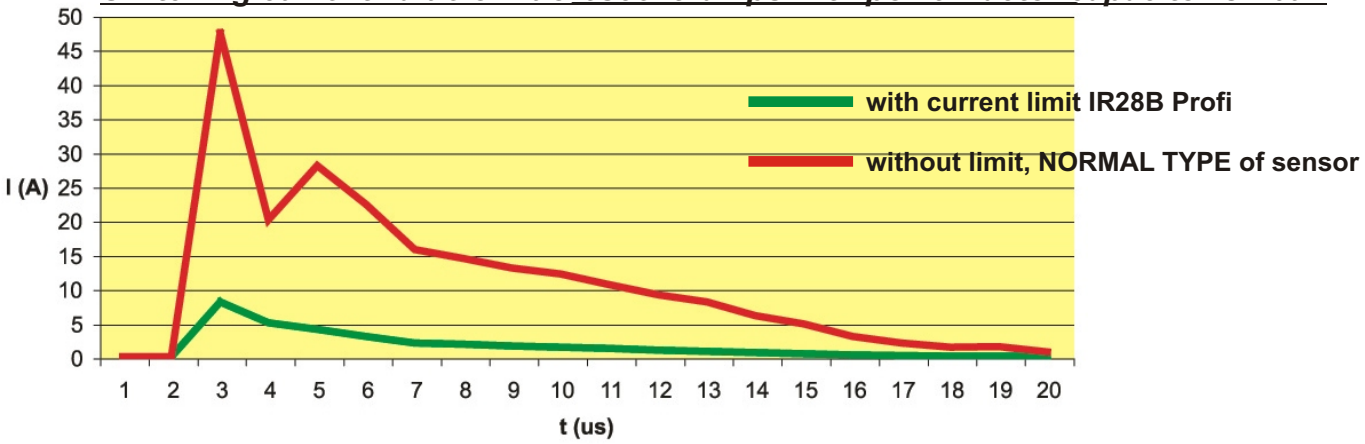
MOTION SENSOR IR28B Profi
FOR SWITCHING LIGHT BULBS AND LAMPS

The IR28B Profi ceiling sensor is used for automatic light switching after penetration of the detection field. The infrared motion sensor responds to thermal changes in the interception area and switches the connected device according to these changes.
The new internal connection with restriction of current surges enables use of the sensor even for switching capacitive loads (FLUORESCENT LAMPS). This solution increases durability of the used relay contacts, thus providing for longer sensor life.

Switching current value of fluorescent lamps with power-factor capacitor C= 6uF



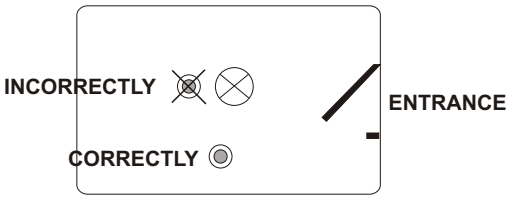
Other advantages include the broad detection angle in the horizontal and vertical plane, light sensitivity regulation, adjustable switching time and sensor function indication.

It is exclusively designed for indoor areas, in which more frequent light switching is the main requirement (staircases, corridors, industrial premises).

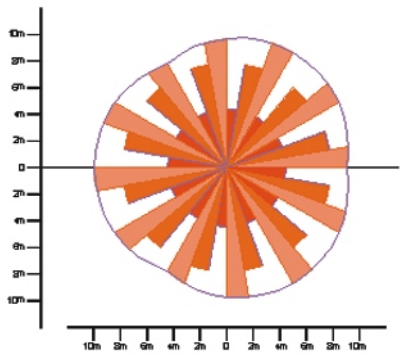
Location:

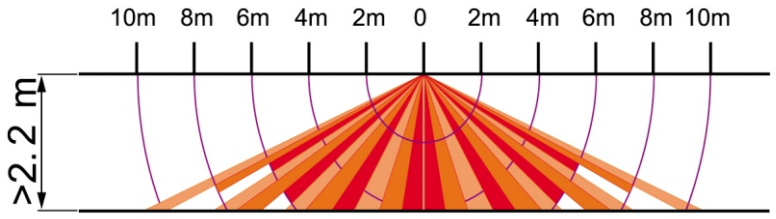
Since the interception area is influenced not only by the place and height of the installation but also the movement speed in the detection field, heed the following recommendations:
- installation height > 2.2 m (greater heights may increase the range, but the detection sensitivity decreases at the same time);
- distance from lights with higher heat radiation >1.5 m;
- choose a place in which the operation will not be affected by direct flow of hot air from a heater, sunshine, and other disturbing impacts (partitions, higher objects).

EXAMPLE OF SENSOR LOCATION



Detection field:





Function:

1. Day/night identification (PHOTO):
The element for light sensitivity regulation is used for setting the period between daylight and twilight or darkness. Thus you can prevent the light from switching on in daytime.

☀ switching during daytime ☾ switching at low light intensity

2. Switching time (TIME):
This regulation element is used for setting the required time for which the light should stay on after every activation.

min approx. 6 seconds **max** approx. 10 minutes

3. Range change (SENS):
The sensor range can be regulated up to 12 m.

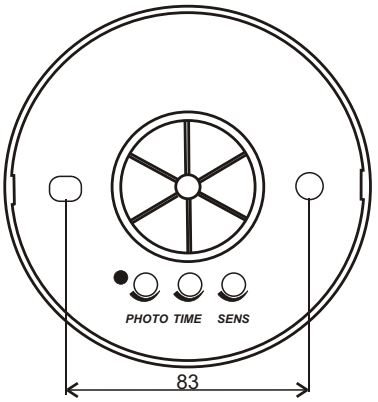


PHOTO - light sensitivity regulation
TIME - switching time
SENS - range change

Installation:

1, Choose a suitable place, preferably across the monitored area up to height >2.2 m.

2, Remove the front cover of the sensor (see Fig. 1).

3, Disconnect the main power supply; connect the conductors according to the diagram, and then attach the sensor to the wall (see Fig. 2), respecting the correct location (see page 1).

Note: After the first connection to the power supply, the device automatically switches on for the period set by the TIME item. After switching off, you must wait for approx. 30 s (the processor is being initialized); then the sensor is ready for full use!

4, Set the parameters of light sensitivity, switching time and detection range according to your wish.

5, Remount the front sensor cover (see Fig. 1).

After connection, test all functions and check the correct setting.

Fig.1

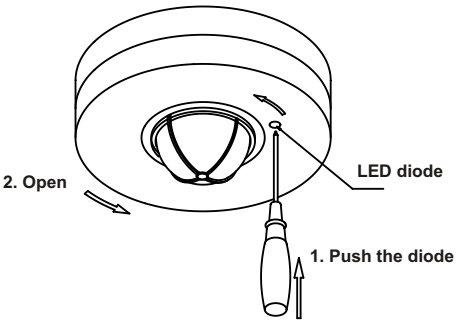
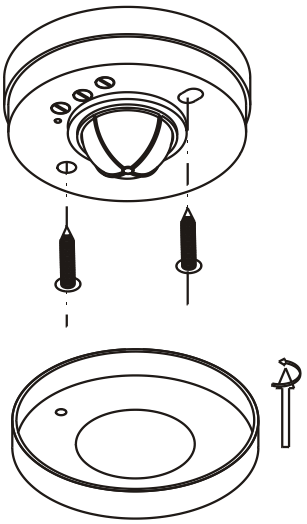
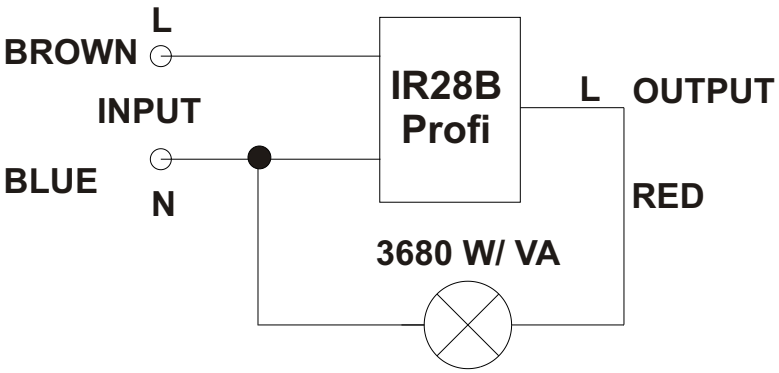


Fig.2



Wiring diagram:



Technical parameters

Power supply:	230V/ 50Hz
Switching power:	3680W (max.16A)
Detection range(< 24°C):	max.12m (adjustable)
Detection angle:	360°
Switching time:	5s to 10min (adjustable)
Installation height:	>2,2 m
Light sensitivity regulation:	<3Lux to >1000Lux (adjustable)
Protection class:	IP20
Working temperature:	0°C to +40°C

In case of guarantee or post-guarantee service, send the product to the manufacturer's address..

GUARANTEE PERIOD: 3 YEARS

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