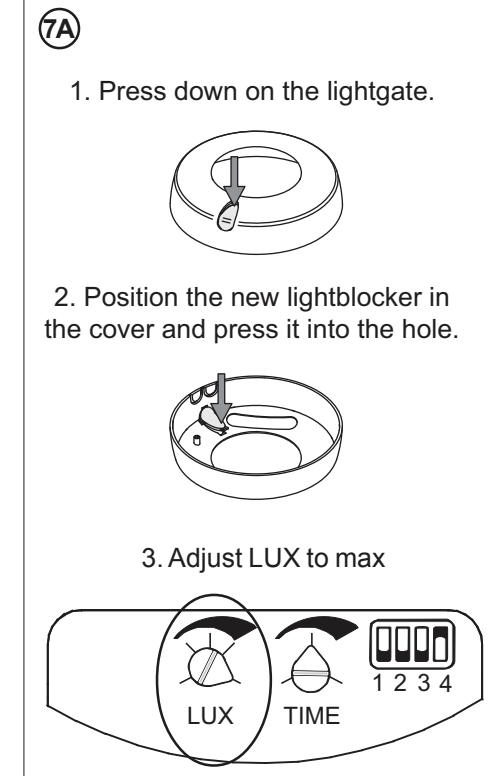
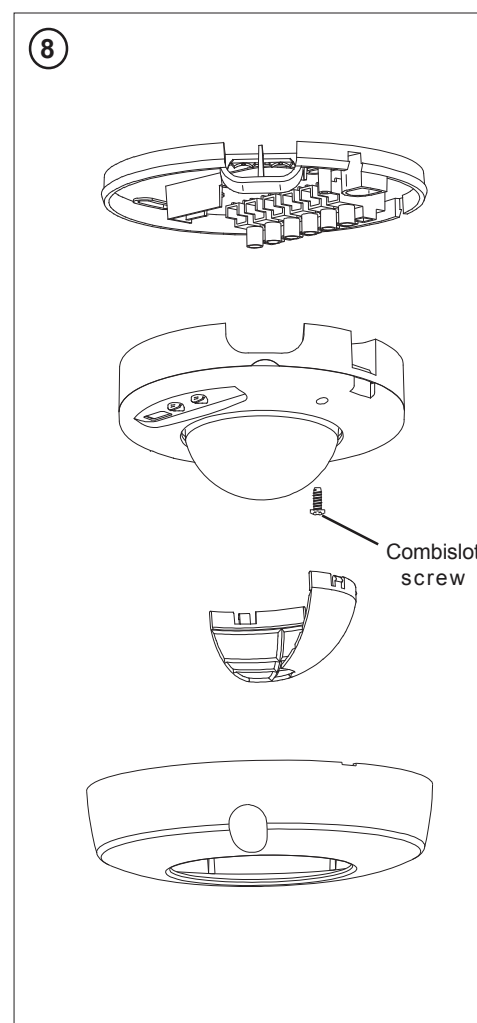
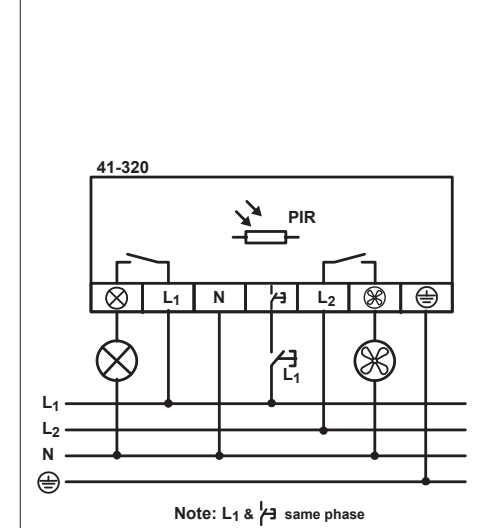
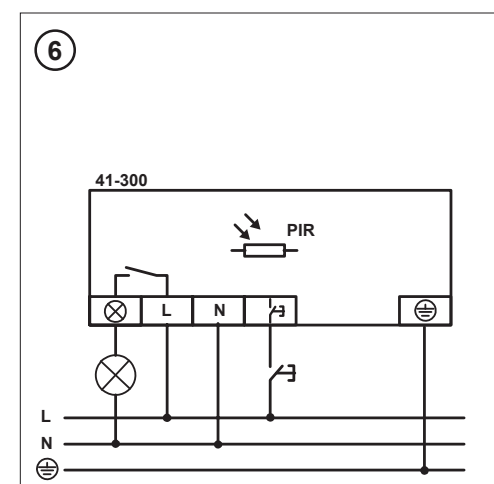
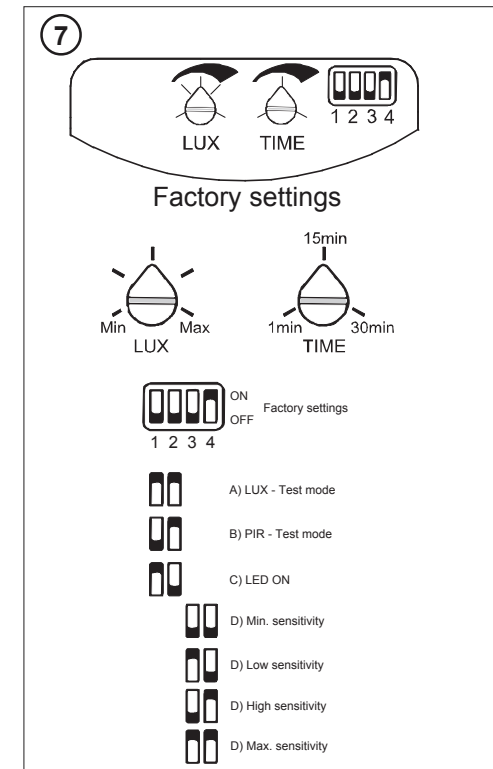
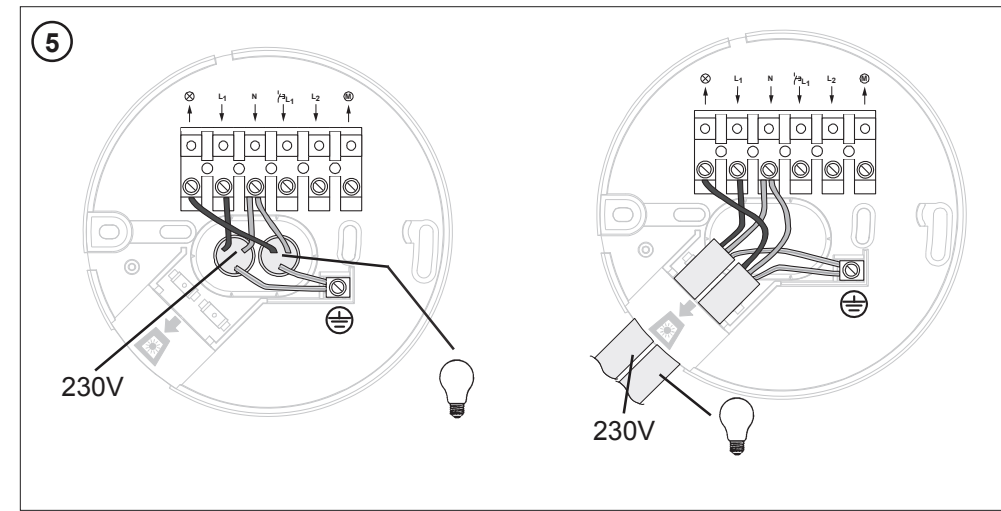
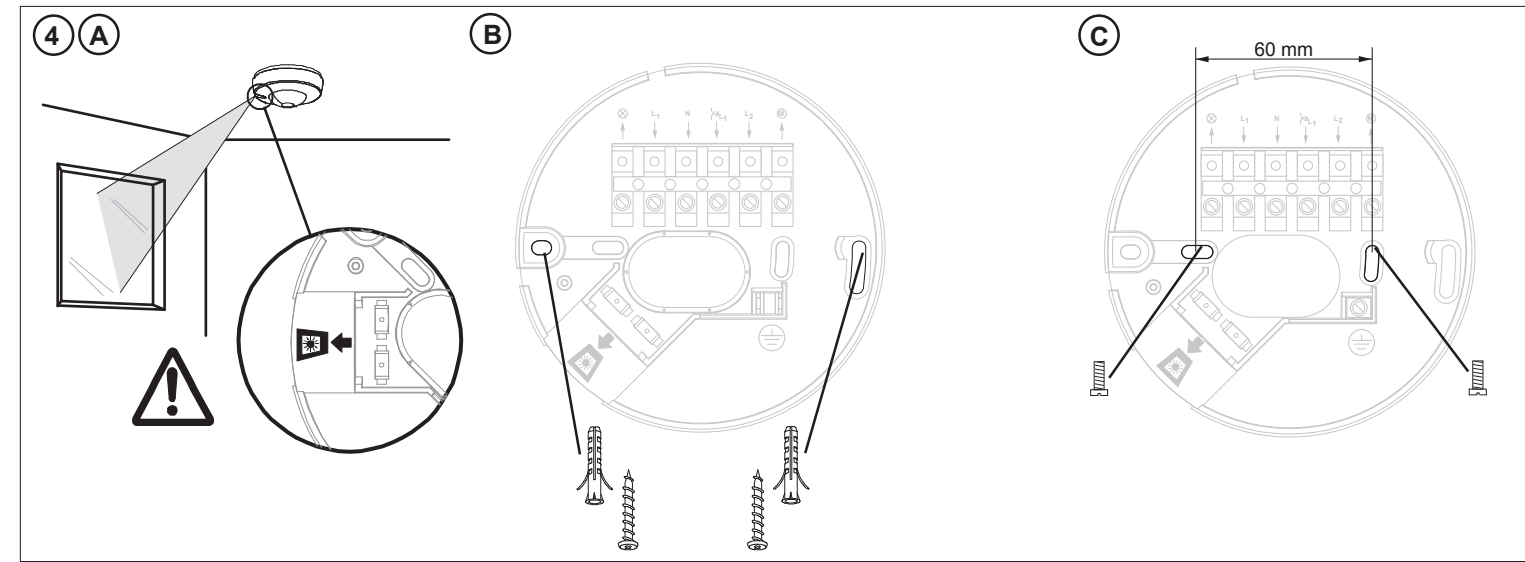
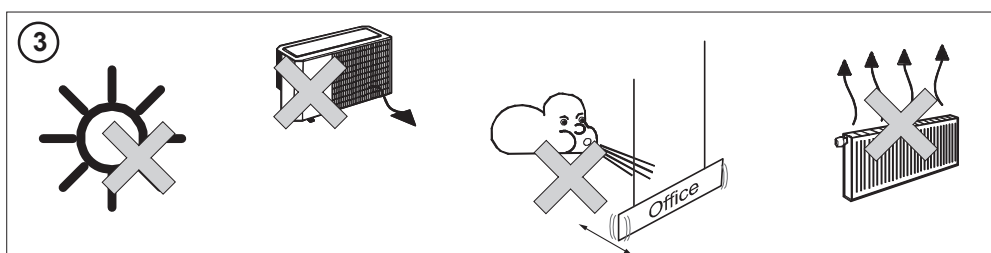
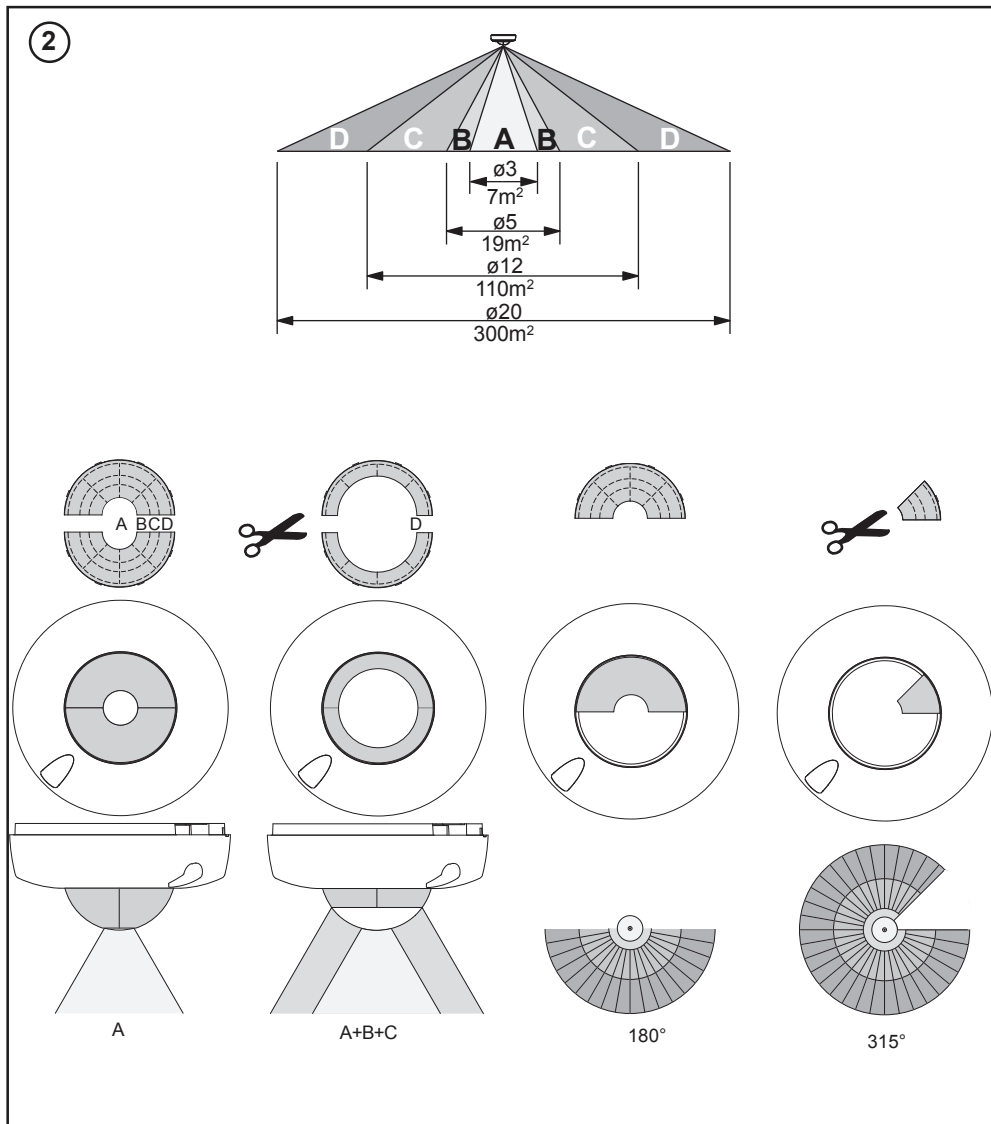
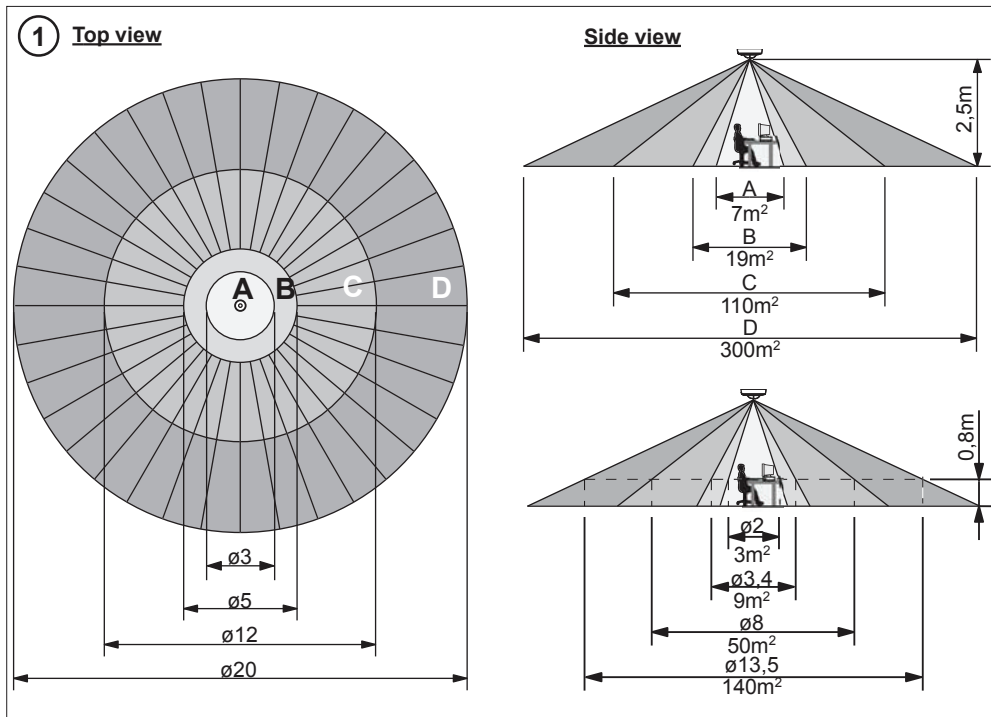
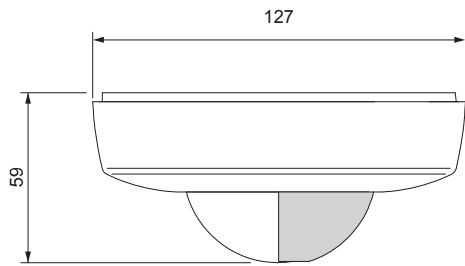




Sensor PIR 360°  
41-300 Standard  
41-320 Light / Vent.



**Advarsel:** Indbygning og montering af elektriske apparater må kun foretages af aut. elinstallatør. Ved fejl eller driftforstyrrelser kontakt den aut. elinstallatør. **! Ret til ændringer forbeholdes !**

**Warning:** Installation and assembly of electrical equipment must be carried out by qualified electricians. Contact a qualified electrician in the event of fault or breakdown. **! Reserving the right to make changes !**

**Achtung:** Einbau und Montage elektrischer Geräte dürfen nur durch Elektrofachkräfte erfolgen. Wenden Sie sich bei Störungen bzw. Ausfall an einen Elektrofachkraft. **! Änderungen vorbehalten !**

**Avertissement :** L'installation et le montage d'appareils électriques doivent exclusivement être exécutés par un électricien agréé. En cas de défaut ou de perturbation du fonctionnement, contacter un installateur électricien agréé. **! Sous réserve de modifications !**

**Varning:** Inbyggning och montering av elektriska apparater får endast utföras av behörig elinstallatör. **! Rätt till ändringar förbehålles !**

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**41-300 PIR 360° Sensor Standard**  
**41-320 PIR 360° Sensor Light/Vent.**

**General:**

The model 41-300 PIR 360° Sensor has been developed to be mounted to ceilings for indoor lighting, e.g. in office areas.

The model 41-320 PIR 360° Sensor has an extra, dry contact relay (channel 2) to control ventilation.

**Area of use:**

- Small offices.
- Open-plan offices with workgroups.
- Rooms with living corner.
- Common activity rooms.
- Locker rooms.
- Larger depot rooms.

**Function:**

The integrated light sensor measures the light level in the area continuously, and compares it with the preset value specified via the LUX setting button.

The lighting is switched on if the light level falls below the preset value and the movement sensor detects activity in the coverage area. The integrated cut out delay, 1-30 minutes, ensures that the lighting remains on until the sensor doesn't detect activity or the selected light level is reached.

The ventilator output (41-320) is activated regardless of the light conditions. The cut out delay follows the setting for channel 1 plus 25%.

**Manual functions:**

If the PIR 360° Sensor is connected to a switch, it is possible to switch the lighting on and off manually, depending on the light conditions.

**Constant on.**

If the switch is activated by means of pressing "on" for 2 - 4 seconds, the lighting is switched on and remains in that setting until the switch is pressed briefly to switch off the light and return to automatic mode.

**Constant off.**

If the switch is activated by means of pressing "off" for 2 - 4 seconds, the lighting is switched off and remains in that setting until the switch is pressed briefly to switch on the light and return to automatic mode.

**Manual off and auto reset.**

If the switch is pressed briefly (0.5 - 2 seconds), the lighting is switched off immediately. This provides maximum energy saving. The sensor will then soon return to auto mode, so that it is able to switch on the lighting when movement is detected.

**1 Coverage area:**

The PIR 360° Sensor is designed to be mounted to a ceiling. At a height of 2.5 m the sensor will cover the floor to a diameter of 20 m and provide a full 360° coverage for movement of people. The PIR 360° Sensor has a special lens area in the centre with a diameter of 5 m, with more than 618 fields guaranteeing optimal detection of even very slight movements.

The PIR 360° Sensor is designed to be mounted on a ceiling at a standard height of 2.5-3.0 m, and is positioned above a desk, typically 1 m away from the user's seat. The sensor has a specially developed optics with 2 detection ranges, a close range (A + B) to detect small movement and a distant range (C + D) to detect body movement. This combination provides excellent control of lighting, while at the same time guaranteeing the best possible energy saving.

**2 Limiting the detection range:**

If the coverage area is too large, it is a good idea to limit it by fitting the enclosed cover. This enables the maximum reach of Ø20 m to be reduced to Ø12 m, Ø5 m or Ø3 m and the angle of 360° can be reduced in increments of 45°.



It is recommended that the PIR Sensor is not installed where it is exposed to direct sunlight, air flows from air conditioning, radiators, etc.

**Parallel connection**

Mounting of two sensors on the same system is inexpedient and is not recommended. Use 41-302 instead.

**4 Installation:**

- The ideal measurement of daylight is obtained by positioning the PIR 360° Sensor with its light gate facing the source of daylight.
- If the PIR 360° Sensor is mounted direct to the ceiling, the hole distance of 105mm can be used. Please note that the cable inlet is turned 45° in relation to the fixing holes.
- If the PIR 360° Sensor is fitted to a flush mounting box, the holes located for this purpose are used, and the base cap is punched out. Guide in the cable correctly and carefully in accordance with the instructions for a fixed installation, and please note that all installation work must take place with the mains voltage disconnected.  
For wire connections, see under fig. 5.

**5 Connection:**

- Read the WHOLE installation and user manual.
- Switch off all power.
- Power from the mains is supplied via the terminals labelled: L, N.
- The light is connected via the terminals labelled:  $\otimes$ , N.
- The manual switch can be connected between the terminals labelled: L,  $\int$ .
- The power-up period means that the lighting and the integrated indicator (LED) are always switched on for 1 minute (stabilisation time).

Connect ground to terminal marked:  $\oplus$

The PIR 360° Sensor can handle a load up to a 2300W filament lamp. See also under the section technical data.

**6 Connection diagram:**

Connection of manual switch.

PS: Mains voltage and switch must be supplied by the same phase.

**7 Setting up/testing:**

The PIR 360° Sensor is supplied with two test mode functions. One for a LUX test and one for a PIR test.

- LUX TEST mode**, measurement of daylight level.  
Set the contacts DIP1 and DIP2 to on.  
In this position the lighting will be switched off; turn the LUX setting slowly from min. towards max. until the integrated indicator (LED) is switched on. At this point the LUX setting is identical to the, by the sensor, measured daylight level. If the daylight level in the room is sufficient, turn the LUX setting towards minimum until the LED is switched off, and leave the LUX setting at this level.  
If the LUX setting is turned towards min., the lighting is switched off at a lower daylight level.  
If the LUX setting is turned towards max., the lighting is switched off at a higher daylight level.  
Finish by setting the contacts to DIP1 off / DIP2 off.
- PIR TEST mode**, PIR "walk" test.  
Set the contacts to DIP1 off and DIP2 on.  
At this setting the lighting will be switched on for 5 seconds as a result of PIR activation, and at the same time the integrated indicator (LED) will indicate that PIR is activated.  
PS: In this test the daylight blocking will be disabled.  
Finish by setting the contacts to DIP1 off / DIP2 off.
- LED indication ON**, Indication of PIR activation.  
Set the contact to DIP1 on. It is recommended that you set this at off if you do not want to indicate supervision.

**d) PIR sensitivity setting**

Contacts DIP3 and DIP4 enable you to customise the sensor's sensitivity. In the factory the product is set to high sensitivity. It might therefore be necessary to change this in certain circumstances. The options are described in fig. 7.

**Lux independent function:**

If only the PIR function is desired, without lux limitation, LUX has to be adjusted to max. and the enclosed lightblock must be mounted (the lightblock is an accessories for 41-320). See fig. 7A.

The PIR Sensor is preset at the factory:

- Sensor is in automatic mode
- LED is off
- High sensitivity

**8 Assembling the sensor:**

- Press the sensor part into the terminal strip in the base, and fit the locking screw (Combislot).
- Set and test the PIR 360° Sensor as described in fig. 7.
- The coverage area can be reduced as described in fig. 2.
- Mount the Sensor's cover.

**9 Operation & maintenance**

Make sure that the lens is kept clean and dry. The lens can be cleaned with a slightly damp cloth. In the event of faults or operational disruption beyond the normal user settings LUX, TIME, SENSITIVITY, contact an authorised electrician.

**Technical data:**

Supply voltage .....	230V AC $\pm$ 10% 50Hz
Contact for channels 1 and 2 .....	$\mu$ 10 A 250V AC, NO
Connection current .....	80 A/20 ms
Load .....	R 2300 W (filament lamp)
	L 1200 VA (fluorescent tube)
	C max. 140 $\mu$ F
	(M) 690 VA
Lux range .....	T0...1000 Lux
Hysteresis .....	+10%
Cut-out delay:	
41-300 .....	1 - 30 mins
41-320 .....	Channel 1 value +25%
Sensitivity .....	Selected manually
Manual on/off .....	Via switch
Activation indicator on/off .....	Selected manually
Test modes .....	Selected manually
Consumption:	
41-300 .....	approx. 1W
41-320 .....	approx. 1,5W
Degree of protection .....	IP 20
Ambient temperature .....	-5°C...+50°C
Cable inlet .....	2 x Ø12 mm
Installation height .....	3.0 m, see fig. 1
Compliance with	
CE acc. to .....	EN 60669-2-1