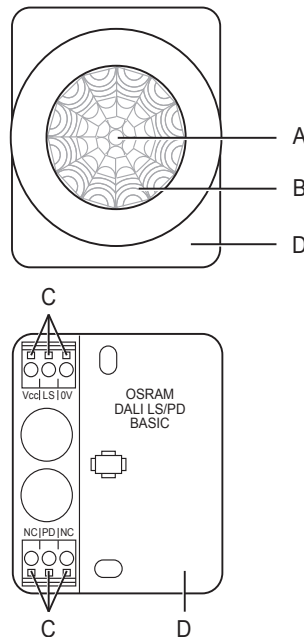


## DALI LS/PD BASIC



### Light and motion sensor Fitting instructions

## Description



## Purpose and application

The DALI LS/PD BASIC sensor detects the presence of persons and measures the intensity of ambient light.

The sensor is designed for connection to DALI RC BASIC SO control units and can be installed in luminaires or ceilings.

## Function

The sensor measures the brightness in the area requiring control and transmits the light value to the control unit for the purpose of keeping it to an adjustable set value by introducing artificial light according to the amount of daylight available. As the amount of daylight increases, artificial lighting is reduced.

The sensor always transmits the detection of movements of persons to the control unit. After the sensor stops detecting motion, the control unit switches the luminaires off following an adjustable delay period.

## Design

The sensor is made up of the following components:

- Light sensor (A)
- Motion sensor (B)
- Connections (C):
  - Supply voltage (Vcc)
  - Ground (0V)
  - Output for light measurement value (LS)
  - Output for motion signal (PD)
- Housing (D)

## Installation

## Safety instructions

The sensor must only be installed and put into operation by a qualified electrician. The applicable safety regulations and accident prevention regulations must be observed.



### WARNING!

Exposed, live cables or damaged housing.

Danger of electric shock!

- Only work on the sensor when it is de-energised.

### CAUTION!

Destruction of the sensor and other devices through incorrect mounting!

- Adhere to the connection diagram.
- Do not exceed the maximum line length.
- When mounting in luminaires, use a UV-resistant cable.
- Do not route the sensor lines together with DALI or power supply lines.
- Only connect the sensor to control units of type DALI BASIC SO.

## Attaching the sensor to the fluorescent lamps

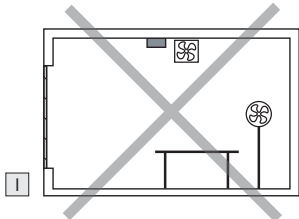
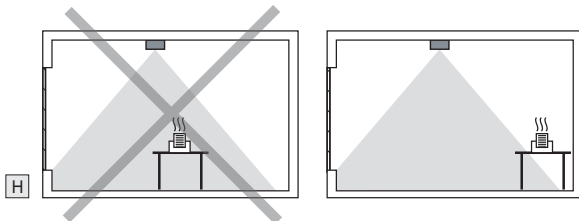
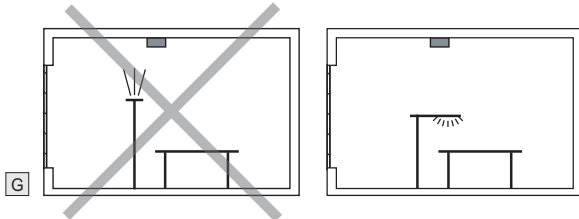
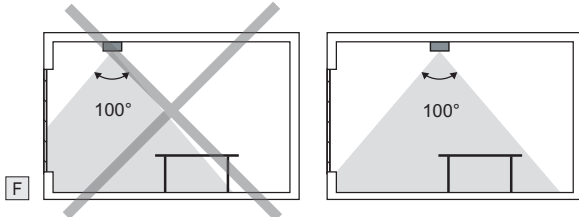
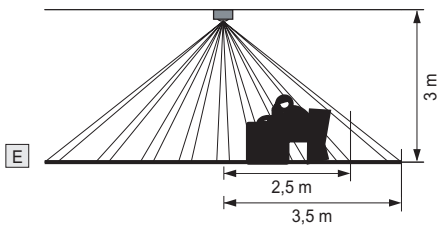
Precondition: T5 or T8 lamps with a min. grid of 60 mm.

- ① Determining a suitable installation location (see „Selecting the installation location“)
- ② Insert the lamp clip into the sensor housing base.
- ③ Attach the sensor to the lamp end with the lamp clip to avoid weighing down the lamp excessively. Minimum distance to the lampholder due to heat development of the coils: 8 cm.
- ④ If necessary, adjust the sensor installation depth to the depth of the grid luminaire by sliding the lamp clip in or out.
- ⑤ Pull the sensor off of the attached housing base.
- ⑥ Connect the sensor; see the connection diagram.
- ⑦ Attach the sensor to the housing base again.

## Attaching the sensor to the ceiling

- ① Determining a suitable installation location (see „Selecting the installation location“).
- ② Take off the sensor base plate.
- ③ Screw the base plate onto the ceiling.
- ④ Connect the sensor; see the connection diagram.
- ⑤ Attach the sensor to the base plate.

## Installation (cont.)

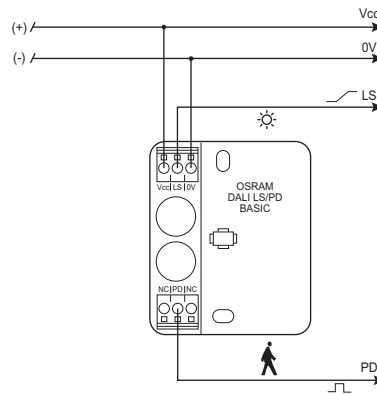


## Selecting the installation location

- E Optimal mounting height: 2.5 – 3 m. As the mounting height increases, the detection area increases and sensitivity is reduced.
- F Monitoring cone: entire workplace; not on window surfaces
- G Avoid exposure to direct light.
- H Place devices that radiate heat outside of the monitoring cone.
- I Avoid drafts (e.g. from ventilators).

## Connecting the sensor

- K Light measurement value
- L Motion signal



## Appendix

## Technical data

Operating voltage	Nominal 10 V DC (8 – 20 V DC)
Current consumption	Max. 3 mA DC
Maximum total line length	100 m
Line connection	Screw terminals for single-wire or fine-wire conductors with 0.3 – 1.5 mm <sup>2</sup>
Operating temperature	0 °C ... +50 °C
Operating range	Up to 400 lx measured at sensor
Detection area	Conical, opening angle approx. 100°
Pollution severity	2 (dry, not conductive, as per IEC 664)
Dimensions (L x W x H)	58.5 x 70.5 x 42 mm
Weight	Approx. 70 g
Protection type	IP 20
Protection class	II

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**OSRAM GmbH**  
Kunden Service Center  
Customer-Service-Center (CSC)

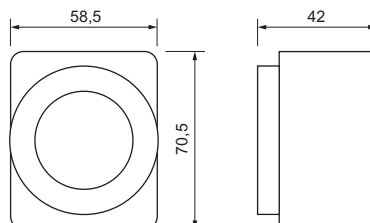
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## Dimensioned drawing

**CE** Conformity with the relevant EU directives is confirmed by the CE symbol.