

Sensor - 14469920

Sensor to detect presence and/or the brightness
(Up to 12 m installation height rectangular detection zone)

iN

DESCRIPTION

This sensor is designed to control dimming receivers (P8 R DALI N and P8 R2 DALI N) in the SMART system, where it continuously controls the levels of their outputs based on the ambient light level. One sensor can control two groups of receivers at different levels and optimize the output of luminaires located near to or further from windows. The device includes a movement sensor that can automatically turn luminaires on or off based on the movement of people in the monitored area (Fig. 1).

Together with a suitable receiver of the SMART system, sensor can be used as a movement detector for remote automatic contactless control of light, for example.

The sensing properties of the light and movement sensor were developed for all application in which high installation heights and long detection area are needed
Ideal for: warehouses, production plants and logistic centers.

FUNCTION

Light sensor

This function measures the average level of light in the area where movement is sensed, too (Fig. 1). This value is compared with the preset light level (set with SMART Assistant) and if the deviation is large enough, it will send a signal to the receivers controlling the ballast to increase or decrease the level of the luminaires output. The light sensor can be used independently or in collaboration with other sensors. It can be controlled manually by SMART transmitters. Or it can work automatically therefore activated by the integrated movement sensor.

Movement sensor

The movement sensor responds to the heat of moving people, animals or objects. If, at the same time, the ambient light intensity is lower than the set intensity, the regulator transmits a coded signal for the cooperating receiver to turn on the controlled appliance.

INSTALLATION

The device must be connected to the mains only by a specialized technician with appropriate electrical qualifications.

Turn off the mains voltage supply before initiating installation work!

Connecting and installation

Place the sensor upon the supposed movement area considering the detection zone (e.g. alley between the stands). Make sure that the sensor is aligned with the axis of the alley. It can be installed directly to the ceiling surface or hanged. Remove the lid from the box (Fig. 2). Fix the upper part of the body to the ceiling, in the correct position. Put the power supply cable through the grommet and connect it to the plug according to Fig. 3. Then insert the plug back into the socket. Seal the second grommet if it is not used.

Return the lid of the box to the original position.

Note:

Do not install the device near heating elements, lamps or other heat sources.

If the installation height is greater, the detection zone expands appropriately.

As an accessory there are 2 pcs of self-adhesive covers which could be used to adjust the range and monitored area characteristics of the sensors.

REMOTE CONFIGURATION

The sensor is designed to be configured remotely only, by using the software SMART Assistant in relation with P8 TR USB transmitter.

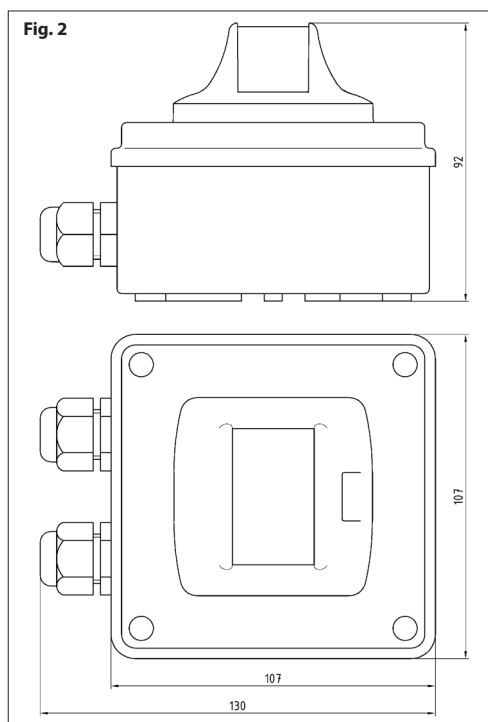
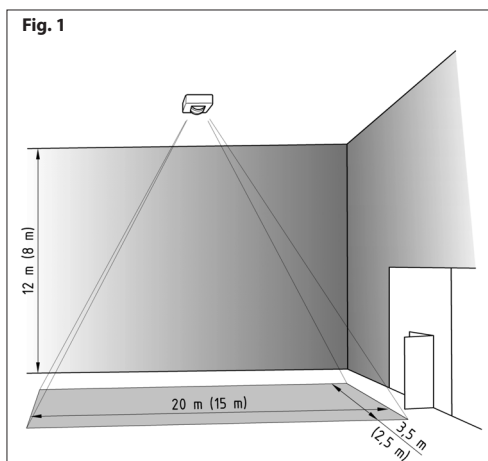
Note:

For an easier identification of the sensor it is possible to activate from the software a temporary light signal (green and red LEDs will blink under the sensor lens).

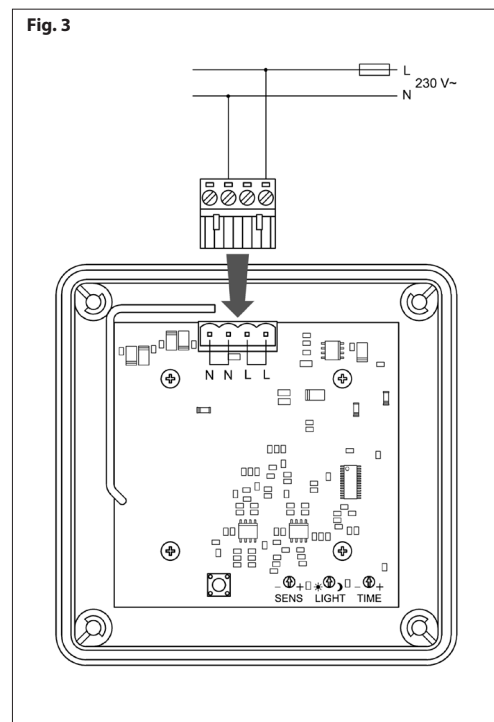
Programming and creating links with other SMART devices can be done in the configuration software SMART Assistant with the use of the transmitter P8 TR USB.

You can use remote configuration to set other functions and parameters that cannot be accessed otherwise:

- Configure transmitters to control the light sensor manually.
- Configure transmitters to control the movement sensor.
- Setting one sensor with different light levels for two groups of lighting fixtures.
- Disable (enable) search mode.



gain unauthorized access to the remote configuration!). Similarly, use this procedure to return to the time-limited search; the only difference is indication by only one blink. The current setting of the search mode used in the sensor can be ascertained while connecting it to the supply voltage. Three short blinks of both the green and red LEDs indicate unlimited search, one short blink indicates time-limited search, no short blinking indicates searching is disabled.



- Wireless transmission of the measured light intensity.
- Set the exclusive use of light or movement detection, or use them in combination.
- Set the movement sensor mode in "ON + OFF" or "Only ON".
- Set the light sensor mode in:
 - NORMAL – normal-level regulation mode
The light level regulation is on and regulates to the preset normal light level value.
 - LOW – low-level regulation mode
The light level regulation is on and regulates to the preset decreased light level value.
 - AUTO – automatic regulation mode
Use the automatic mode to create combined functions controlled from multiple transmitters of the SMART range and, at the same time, use light level regulation functions at two levels (NORMAL and LOW).
 - DIMM – dimmer mode
The light level regulation is off. Regulator output signals are set for the required value independently of the ambient light level.

By default, the sensor is set to the so-called state of time-limited search. This means that it can be identified by the software SMART Assistant only within the first five minutes from its connection to the supply voltage. To enable time-unlimited search, before you connect the sensor to the supply voltage, press and hold the INIT PG button until the regulator indicates the change by three simultaneous flashes of the green and red LED under the sensor lens
(! Attention, a permanent identification can be mis-used to

Technical data	P8 TR PS HB
Power supply:	230 V \pm 10 % 50 Hz
Switch-off delay:	5 s to 105 min
Illuminance:	0,5 to 12 288 lx
Frequency:	868 MHz
Range:	150 m in open space
Number of codes	2 ²⁴
Number	32
Operating temperature:	-10 to +35 °C
Terminal block:	max. 2,5 mm ²
IP protection:	IP 40 according to EN 60529

It is forbidden to do any technical modifications on the device!