



LUXOMAT PICO-N-M-1C Miniature Presence Sensor User Manual

[Home](#) » [LUXOMAT](#) » LUXOMAT PICO-N-M-1C Miniature Presence Sensor User Manual 



93159 UK CA CE

Contents

- [1 Safety instructions](#)
- [2 Operation](#)
- [3 Mounting](#)
- [4 Technical data](#)
- [5 Wiring diagram](#)
- [6 Accessory](#)
- [7 EU Declaration of conformity](#)
- [8 Documents / Resources](#)
 - [8.1 References](#)

Safety instructions



Work on the mains supply may only be carried out by qualified professionals or by instructed persons under the direction and supervision of qualified skilled electrical personnel in accordance with electrotechnical regulations.



Disconnect supply before installing!

This device is not to be used to isolate other equipment from the mains supply.



The total number of switchable loads is limited due to high inrush currents of electronic ballasts and LED drivers. In case of a large number of connected loads please use an external contactor. For all connected loads, proper interference suppression is obligatory (we recommend to use our arc extinction kits).



Read this supplementary sheet and the operating instructions before putting the device into operation. Knowledge of these documents is part of the intended use!



Operation

The device is a remote controlcapable mini occupancy detector for ceiling mounting (interior applications) having a circular detection area.

The occupancy detector controls the light automatically according to people present (movements) and the ambient brightness.

The integrated light sensor constantly measures the ambient light and compares it with the switch-on threshold set in the detector. If the ambient light is sufficient, lighting will not be switched on. If the ambient light level is below the brightness level, a movement activates the lighting in the room.

The detector switches the light off if there is enough natural light for 15 min. or if no movement was detected within the follow-up time.

Further functions can be accessed with our remote control (see accessories).

Mounting

Fig. 1

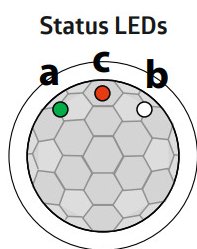


Fig. 3

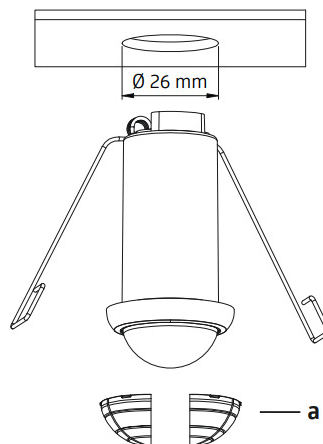
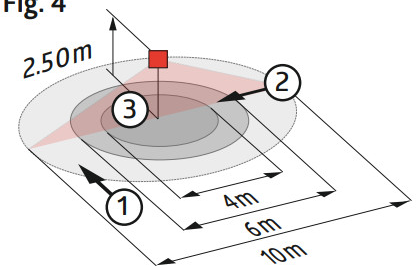


Fig. 4



	①	②	③
2.50 m	Ø 10.00 m	Ø 6.00 m	Ø 4.00 m
5.00 m	Ø 20.00 m	Ø 12.00 m	-

Fig. 2

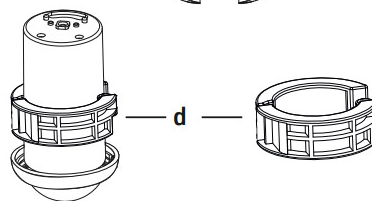
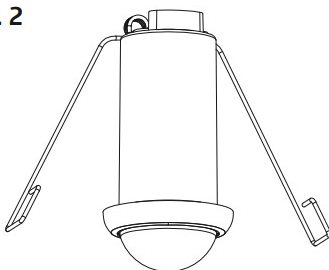
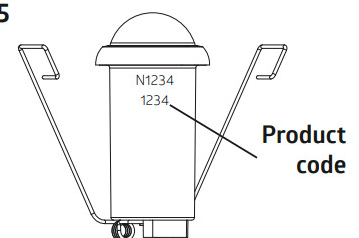


Fig. 5



Mounting hints



The connecting cable must not be shortened.



Fig. 3, d

For mounting in luminaires, use the enclosed clamping ring and remove the spring clips.

Exclude sources of interference

► **Fig. 3, a**

In case the detection area of the detector is too large or areas are being covered that should not be monitored, the range can be reduced or limited by using the enclosed blinds (a).

Self-test cycle

The product enters an initial 60-second self-test cycle when the supply is first connected (LEDs flash). During this time the device does not respond to movement.

LED function indicators after each mains recovery



Factory settings active: – white, red, green flash in quick succession for 10 sec.
Standard mode

- Detector programmed – red flashes quickly (2x/sec.)
- Detector not programmed – red flashes (1x/sec.)

LED function indicators

Motion detection – red flashes

Light value higher than switchon threshold: – green LED flashes

Light measurement active: – Green flashes once every 10 s

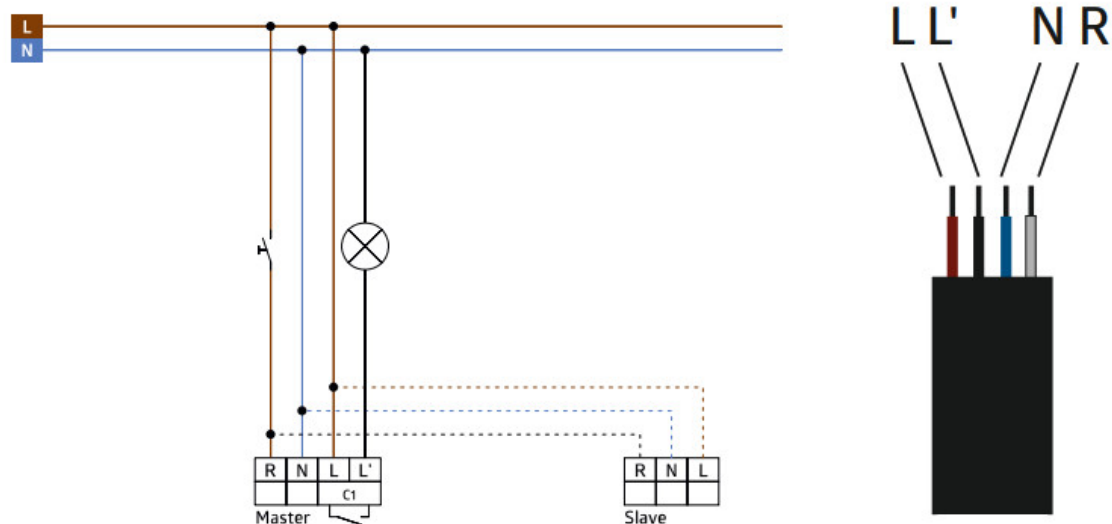
Technical data

110-240 V ~, 50/60 Hz	Voltage
Ø 33 x 60 mm	Dimensions
ca./approx. 0.35 W	Power input
1.5 mm	Wire cross-section
360°	Area of coverage
2 m / 5 m / 2.5 m	Mounting height min./max./ recommended
► Fig. 4 2.5 m 18°C 1 = max. Ø 10 m 2 = max. Ø 6 m 3 = max. Ø 4 m	Range of coverage at mounting height Ambient temperature 1 across 2 towards 3 seated
II / IP65	Class / Degree of protection
-25°C – +50°C	Ambient temperature
140 cm	Cable length
C1 µ – NO 2300 W cosφ = 1 1150 VA cosφ=0.5	Relay contact tungsten pre-make contact Switching capacity
I _p (20ms) = 165 A	max. inrush peak current (relay)
78 m ²	Monitored surface, when the detector is mounted at 2.5 m mounting height and for tangential approach
10 min 500 Lux	Factory settings Follow-up time Switch-on threshold

Wiring diagram



Schematic diagram – when connecting the detector, please respect the labelling of the terminal connections at the device!



L	Brown
L'	Black
N	Blue
R	Grey

Accessory

93067	BLE-IR-Adapter
92520	IR-PD-1C
92077	IR-PD-1C-E
92159	IR-PD-Mini
10880	Arc extinction kit
10882	Mini-RC-Arc extinction kit

EU Declaration of conformity



This product respects the directives concerning

1. electromagnetic compatibility (2014/30/EU)
2. low voltage (2014/35/EU)
3. restriction of the use of certain hazardous substances in electrical and electronic equipment (2011/65/EU) and (2015/863/EU)



<https://www.beg-luxomat.com/qr.php?prtno=93159>

Product pages on the Internet

Subject to technical changes ■ 93159M4_Short_MAN_PICO-N-M-1C-DE_93159_sv-fi-no-en_V2 – 070323

Brück Electronic GmbH

Gerberstr. 33

51789 Lindlar

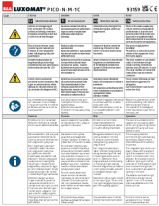
GERMANY

Phone: +49 (0) 2266 90121-0

support@beg.de

[beg-luxomat.com](https://www.beg-luxomat.com)

Documents / Resources

	<p>LUXOMAT PICO-N-M-1C Miniature Presence Sensor [pdf] User Manual PICO-N-M-1C Miniature Presence Sensor, PICO-N-M-1C, Miniature Presence Sensor, Presence Sensor</p>
---	---

References

-  [B.E.G. - The lighting control professionals](#)