B.E.G. LUXOMAT® PD4-1C(-Corridor)

Installation and Operating Instruction for B.E.G. - Occupancy detectors PD4-1C-C-SM/-FC and PD4-1C-SM/-FC/-FM

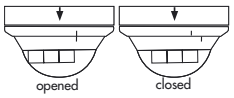
1. Mounting preparations

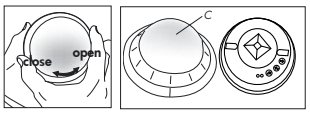
Work on the 230 V mains supply may only be carried out by qualified professionals or by instructed persons under the direction and supervision of qualified skilled electrical personnel in accordance with electrotechnical regulations.

Disconnect supply before installing!

2a. Installation of the LUXOMAT® PD4-1C(-C)-SM

ATTENTION: For maximum sensitivity the corridor detector-, lens- and corridor-axis must match.

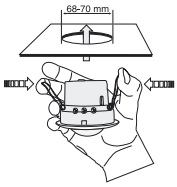




The detector must be installed on a solid and level surface. The circular cover ring must be removed prior to assembly. To do this, twist the lens (C) anticlockwise through approximately 5° and lift off.

Having connected up the wires in accordance with regulations, secure the detector with 2 screws. After installation replace the lens and lock (turn clockwise). Mains to be connected.

2b. Installation of the LUXOMAT® PD4-1C(-C)-FC

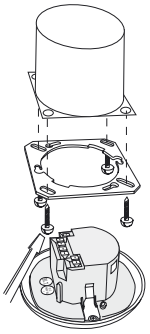


The detector has been designed and developed specifically for installation in suspended ceilings.

A circular opening of diameter 68 - 70 mm must first of all be produced in the ceiling.

Having connected up the cables in accordance with regulations, the detector is inserted into the opening as shown in the drawing opposite and fixed into position with the assistance of the spring clip.

2c. Installation of the LUXOMAT® PD4-1C-FM

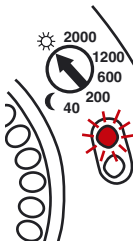


The detector can be installed in conventional inlet-sockets mounted on the ceiling.

The assembly plate enclosed must be stripped off prior to installation and secured to the ceiling using 4 screws and ensuring that it is not laterally transposed.

(Please refer to the connection diagrams on page 2 of the Operating Instructions when connecting up the wiring)

2d. Self test cycle



The product enters an initial 60-second self-test cycle, when the supply is first connected. The occupancy detector is ready for operation.

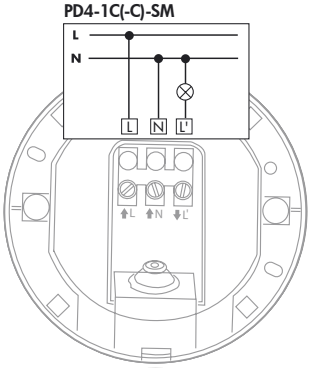
3. Putting into operation / Settings

Follow-up time for light control
The time can be set infinitely variably at between 30 seconds and 30 minutes.
Symbol ⎍: impulse < 1 sec.
Symbol **TEST**: Test mode
(Every movement switches on the light for a period of 1 second, switching it off for a period of 2 seconds after that regardless of the level of brightness)

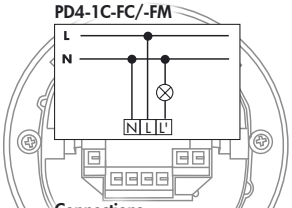
Twilight-switch
The switch-on value for the light can be set at between 10 and 2000 Lux. Using the rotary control, the luminance set points can be set as desired.
Symbol ☾: Night-time operation
Symbol ☼: Daytime/Night-time operation

4. PD4-1C(-C) - Connections

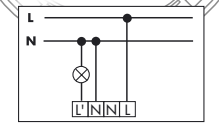
Connections PD4-1C(-C)-SM



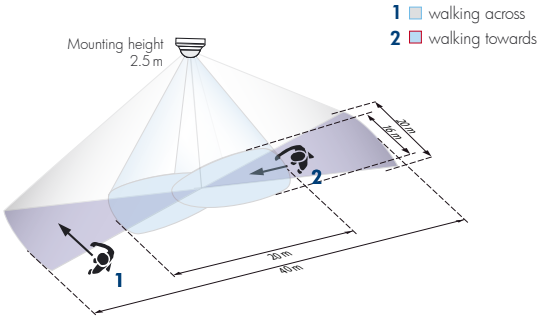
Connections PD4-1C-FC/-FM

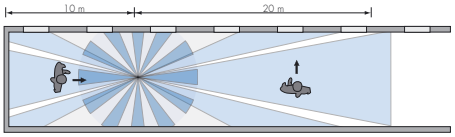


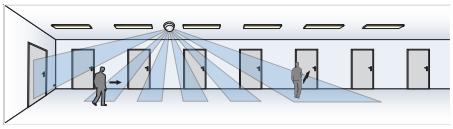
Connections PD4-1C-C-FC



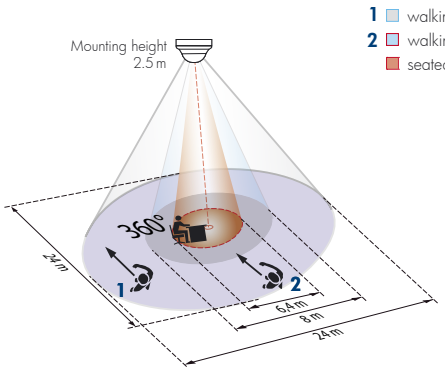
5a. Range of Coverage PD4-1C-C

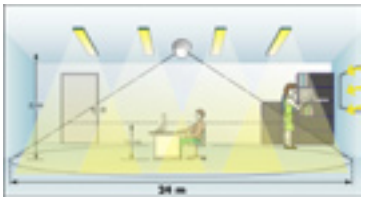


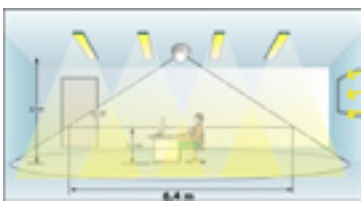




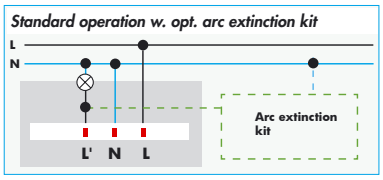
5b. Range of Coverage PD4-1C



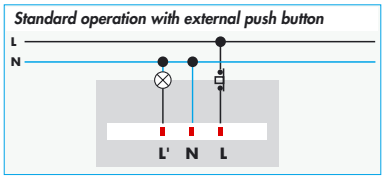




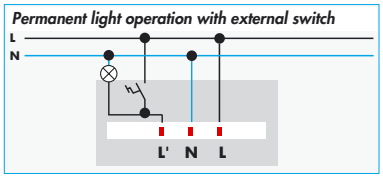
6. Wiring diagrams



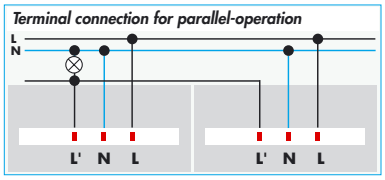
Standby
Optional extension for switching of parallel inductors, rocker switches, fluorescent lamps etc.



Standby,
Additionally manuall switching ist possible. The NC-contact is to press for approx. 0.5 - 2 sec.



Standby
Switching is manually possible (permanent light operation).



Parallel switching *of max. 8 occupancy detectors.*

8. LED-functional indicators, fault-finding

The functional indicators in the case of the LUXOMAT® PD4-1C(-C) (red and green LED's)

Red LED indicating self-checking mode (over a period of 60 seconds following mains'-supply lock-on)
Flashing at intervals of 1 second
EEPROM / memory empty

Flashing rapidly
EEPROM / memory contains information

Red LED as an indicator of status
Flashing irregularly
Movements are detected within the area of coverage

Flashing regularly
Detector identifies bright, light off
(dependent upon operating mode)

Not illuminated
Detector identifies dark, light on
(dependent upon operating mode)

Flashing extremely rapidly
Too bright / Too dark / Undefined

Red LED as an acknowledgement of receipt for commands from the remote control
Illuminated for 2 seconds
Signal validly received

Illuminated for 0.5 seconds
Not-accepted command, detector blocked

Flashing extremely rapidly
Not-accepted command, occurs, for example, when an attempt is made to input twilight-value are too bright or too dark

Green LED as an acknowledgement of receipt for commands from the remote control
Lights up for 3 seconds
Semi automatic or user signal correctly received

Green LED as an indicator of status (only for status "Permanent protection against sabotage")
Flashing irregularly
Movement are detected within the area of coverage

Flashing regularly
Detector identifies bright, light off
(dependent upon operating mode)

Not illuminated
Detector identifies dark, light on
(dependent upon operating mode)

Illuminated for 2 seconds
Signal validly received
(dependent upon operating mode)

10. Article / Part-Nr. / Accessory

Type	SM	FC	FM
PD4-1C	92144	92149	92151
PD4-1C-C	92270	92274	–

Accessory:

BSK Ball basket guard	92199
Covering IP23	92206
Wall bracket PD4-C-SM	92441
Blinds PD4-1C-SM	92260

Accessory - Description

LUXOMAT® Covering IP23
for the PD4-1C(-C)-FC to increase the degree of protection from IP20 to IP23.

Part-No. 92206

LUXOMAT® Blinds
for PD4-1C-SM

Part-No. 92260

LUXOMAT® BSK
Protective cage: protects the presence detector damage caused by balls or vandalism.

Part-No. 92199

LUXOMAT® Wall bracket
for PD4-1C-C-SM

Part-No. 92441

7. Technical data PD4-1C(-C)

Sensor and power supply in one case
Power supply: 230 V~ +6 %/-10 %
Power consumption: < 1 W
Ambient temperature: -25°C – +40°C
Degree of protection/class: SM IP54, FC and FM IP20 / II / CE, FC with accessory covering IP23
Settings: locally
Area of coverage:

PD4-1C	circular, 360°
PD4-1C-C	narrow detection area, ideal for corridors

Range of coverage Ø H 2.5 m / T=18°C:

	seated	tangential	radial
PD4-1C	6,4 m	24,0 m	12,0 m
PD4-1C-C	7,0 m	40,0 m	20,0 m

Recommended height for mounting: 2 - 3 m
Light measurement: daylight + artificial light
Lux values - Potentiometer: 10 - 2000 Lux
• 1 Relay/Channel for light-connection
Type of contact: NOC / with pretravel tungsten contact
Contact load: 2000 W, 230 V~, 8,7 A cos (φ) = 1 / 1000 VA cos (φ) = 0,5
Time-settings: 30 sec. - 30 min. / Test
Max. no. of series-connected electronic ballasts: depending on type and make, total connectable 140 µF.

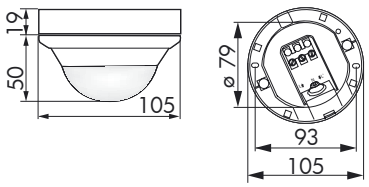
Dimensions H x Ø [mm]:	SM	FC	FM
PD4-1C	69 x 105	103 x 97	84 x 97
PD4-1C-K	73 x 101	103 x 97	–

Visible portion when built into ceiling: 30 x 97 mm

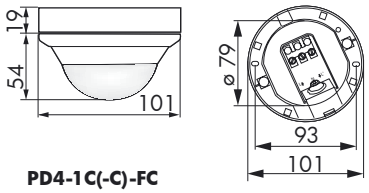
CE **Declaration of Conformity:** The product complies with the low voltage recommendation 2006/95/EC and the EMV recommendation 2004/108/EC.

9. Dimensions

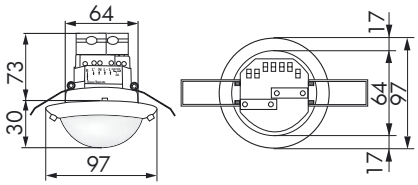
PD4-1C-SM



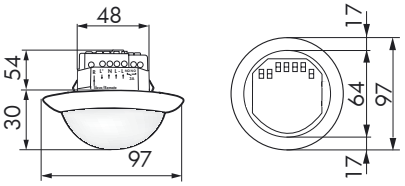
PD4-1C-C-SM



PD4-1C(-C)-FC



PD4-1C-FM



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