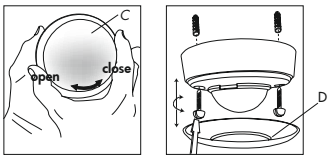
B.E.G. LUXOMAT® KNX-BUS-Detector

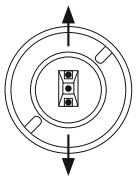
Installation and Operating Instruction for **B.E.G.** - Occupancy detectors PD2-KNX-SM/-FC/-FM, PD4-KNX(-GH,-C)-SM/-FC/-FM, PD9-KNX-FC, Indoor 180-KNX

1a. Installation LUXOMAT® PD2-/PD4-KNX(-GH, -C)-SM



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) of the PD4-KNX or (D) of the PD2-KNX anticlockwise through approximately 5° and lift off.

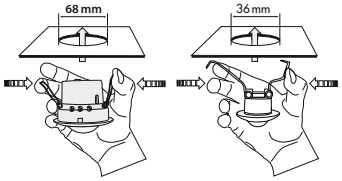
Having connected up the wires in accordance with regulations, secure the detector with 2 screws. After installation replace the lens and lock (turn clockwise).



ATTENTION: Install the PD4-DIM-KNX-GH-SM (for high-bay storages) in such a manner, that the sensors are positioned in the longitudinal axis of the area to be monitored (e.g. high-bay corridors)!

For adjusting the corridor detector correctly, please align the respective lens portions as indicated.

1b. Installation LUXOMAT® PD2(-C)-/PD4(-C)-/PD9-KNX-FC

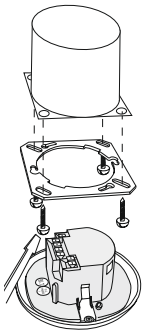


The detector has been designed and developed specifically for installation in suspended ceilings. A circular opening of diameter 68 mm (PD2/PD4-KNX) resp. 36 mm (PD9-KNX) must be produced in the ceiling.

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 clips.

For adjusting the corridor detector correctly, please align the respective lens portions as indicated

1c. Installation LUXOMAT® PD2-/PD4-KNX(-C)-FM

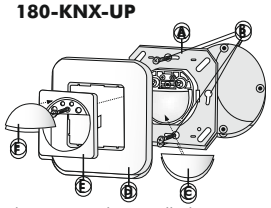


The detector can be installed in conventional inlet-sockets mounted on the ceiling. The assembly plate enclosed must be stripped off prior to installation and secured to the ceiling using 4 screws and ensuring that it is not laterally transposed.

Having connected up the cables in accordance with regulations, the detector can be placed in position as shown in the drawing opposite and, applying a little pressure, can then be locked into position with the assistance of the spring clips.

For adjusting the corridor detector correctly, please align the respective lens portions as indicated

1d. Installation LUXOMAT® Indoor 180-KNX-UP



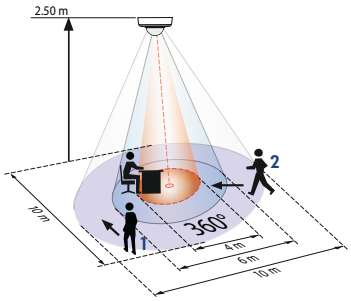
The detector can be installed in conventional installation sockets. Installation should be made to a wall with a height of 1.1 to 2.2 m.

Before installation, the hemispherical covering-cap (F) above the lens and the mask (E) below it need to be removed using a small screwdriver. After connecting the cables in accordance with the regulations, fasten sensor (A) using 4 screws as in the sketch below.

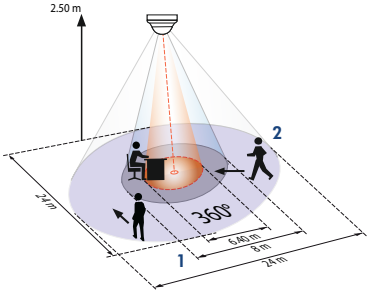
For installation outdoors, the IP54 installation set (Part-Nr. 92141) is available as an accessory.

2. Detection areas

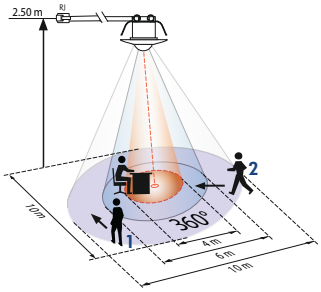
PD2-KNX



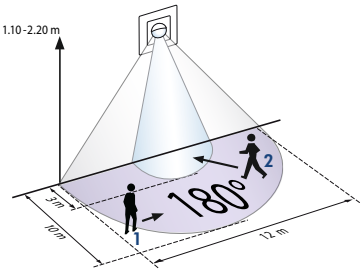
PD4-KNX



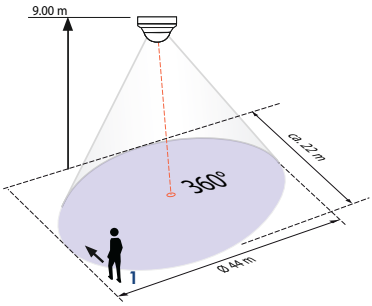
PD9-KNX



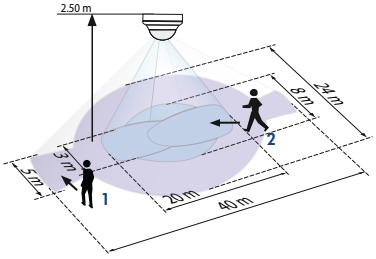
Indoor 180-KNX



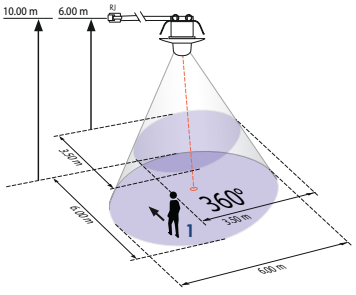
PD4-KNX-GH-SM



PD4-KNX-C (Corridor)



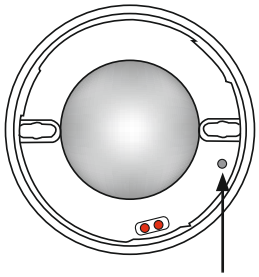
PD9-KNX-GH



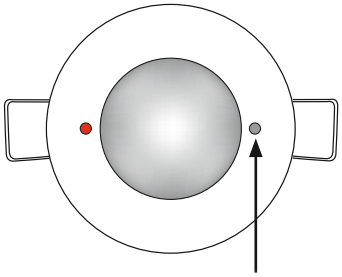
1 Walking across
2 Walking towards
Seated

3. Position Programming button

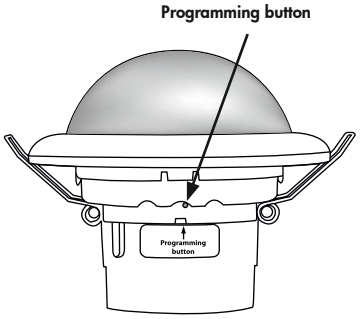
PD2-KNX-SM
PD4-KNX-SM
PD4-KNX-GH-SM
PD4-KNX-C-SM



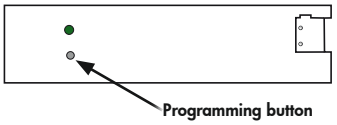
PD2-KNX-FC



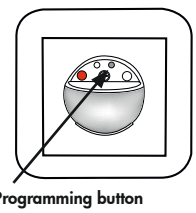
PD4-KNX-FC
PD4-KNX-C-FC



PD9-KNX-FC - Power supply



Indoor 180-KNX



3. Putting into operation / Settings

In connection with the application program **B.E.G._ Occupancy detectors_928XX_V5.0** there are different modes available.

Product data bank to be imported in the ETS data base is included in the delivery or can be downloaded from the **B.E.G.** homepage.

Attention: Please do not locate the detector near a heating or air condition source!

Please refer to the application description for details of application programming and the communication objects!

5. Article / Part-Nr. / Accessory

Typ	SM	FC	FM
PD2-KNX	92880	92881	92882
PD4-KNX	92883	92884	92885
PD4-KNX-GH	92889	–	–
PD4-KNX-C	92886	92887	92888
PD9-KNX	–	92890	–
PD9-KNX-GH	–	92891	–
Indoor 180-KNX (Sensor insert)	–	–	92892

Accessory:

BSK Ball basket guard	white	92199
FC-Covering IP23	transparent	92206
SM-Socket IP54 PD2-KNX/EIB	white	92161
SM-Blinds PD4	transparent	92260
Cover ring PD9	white	92238
Cover ring PD9	silver	92237
Cover ring PD9	black	92235
Covering Indoor 180	RAL9010	92630
Covering Indoor 180	RAL9016	92641
Covering Indoor 180	RAL1013	92632
Covering Indoor 180	RAL9006	92633
Covering Indoor 180	RAL7021	92634
Covering IP54 Indoor 180	RAL9010	92139
SM-Socket Indoor 180	RAL9010	92141

6. Technical data KNX

Sensor and power supply in one case
Power supply: 24VDC from KNX-BUS system
Current absorption: 10 mA
Ambient temperature: - 25°C – +55°C
Degree of protection/class:

PD2/PD4-KNX(-C, -GH)-SM	IP20 with accessory IP54, DE and UP IP20, DE with accessory IP23 / II
PD9-KNX(-GH)-FC	IP20 / II
Indoor 180-KNX	IP20, with accessory IP54/II

Settings: by ETS-system
(Product data bank to be imported in the ETS data base can be downloaded fom the **B.E.G.** homepage.)
Area of coverage:

PD2/PD4/PD9-KNX	circular 360°
PD4-DIM-KNX-GH	oval 360°
PD4-KNX-K	narrow 360°
Indoor 180-KNX	semicircular 180°

Range of coverage:

PD2/PD9-KNX	max. 10 m (walking across)
PD9-KNX-GH	max. 5.40 m (walking across)
PD4-KNX	max. 24 m (walking across)
PD4-KNX-GH	max. 44 m (walking across
PD4-KNX-C	max. 40 m (walking across
Indoor 180-KNX	max. 10 m (walking towards)

Recommended height for mounting:

PD2/PD4/PD9-KNX(-C)	2 - 3 m
PD4/PD9-KNX-GH	2 - 10 m
Indoor 180-KNX	1,1 - 2,2 m

Light measure: mixed light, daylight + artificial light
Dimensions PD2/PD4/PD9 H x Ø [mm]:

	SM	FC	FM
PD2-KNX	50 x 97	84,5 x 74	65 x 98
PD4-KNX(-C)	73 x 100	97 x 103	97 x 103
PD4-KNX-GH	73 x 100		
PD9-KNX		28 x 45	
PD9-KNX-GH		40 x 45	

Visible portion when built into ceiling:

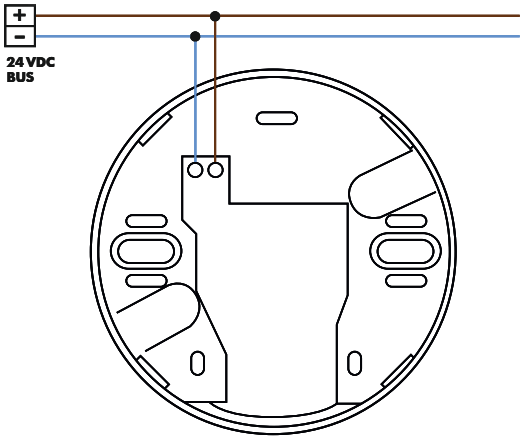
PD2-KNX	34 x 74 mm
PD4-KNX(-GH, -C)	34 x 103 mm
PD9-KNX	12 x 45 mm
PD9-KNX	24 x 45 mm

Dimensions Indoor 180-KNX:
H 87 x W 87 x D 61 mm

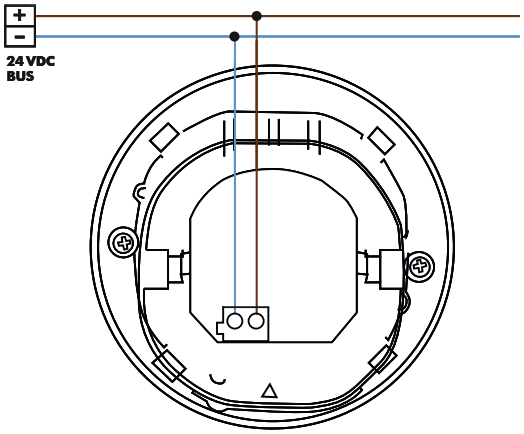
CE **Declaration of Conformity:**
This product respects the directives concerning
1. electromagnetic compatibility (2004/108/EU)
2. low voltage (2006/95/EU)
3. restriction of the use of certain hazardous substances in electrical and electronic equipment (2011/65/EU)

7. KNX - Connections

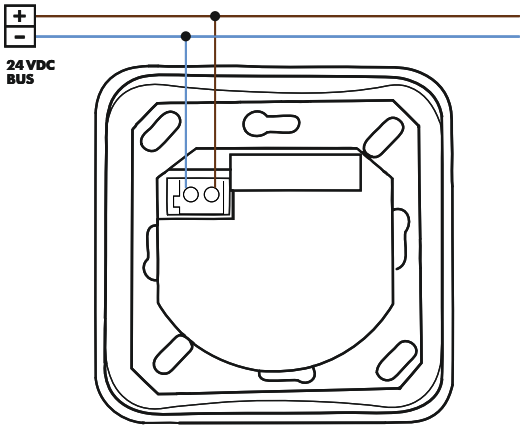
Connection
PD2/PD4-KNX(-GH,-C)-SM



Connection
PD2/PD4-KNX,(-C)-FC and -FM



Connection
Indoor 180-KNX



Connection
PD9-KNX(-GH)-FC - Power