B.E.G. LUXOMAT® PD4N-LON

Installation and Operating Instruction for **B.E.G.** - Occupancy detectors PD4N-LON

1. Product information

- LON occupancy detector with embedded light sensor for daylight-based lighting control.
- Full automatic or semi-automatic occupancy control modes. Switching or constant light control modes. Control of both inner and close-to-window light channels,
- with configurable offset.
- Easy interface to HVAC systems:
 - Configurable switch-on and follow-up times. SNVT_occupancy output network variable with configurable output values for direct binding with HVAC-type controllers (Space Comfort Controller, Fan Coil Unit, and others).
- Configurable orientation light level and follow-up time when area is vacated.
- All configuration properties changeable via network variables
- IR-PD-LON user remote control (optional): Adjust dimming light level.
 - Turn on/off light.
 - HVAC: change temperature set value, fan speed, heat/cool, and others
 - Control up to 2 roller shutter groups.
 - Control up to 3 remote actuators/controllers.
 - Recall/save up to 3 scenes.

2. Operation

Files necessary for operation, like manufacturer resource files and product template to be imported in the LNS database, can be downloaded from the B.E.G. Homepage.

Depending on the application configuration, the detector can operate in different modes: full automatic, semi-automatic, as a photoelectric switch or simply as a slave to other detectors Please refer to the LON application description for details about detector configuration and available network variables.

3b. Mounting SM



The detector must be installed on a solid and plane surface. The circular cover ring must be removed prior to assembly. To do this, twist the cover ring 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 cover ring and lock (turn clockwise). Apply mains voltage.

Please do not locate the detector near a heating or air ⚠ conditioning source!

3b. Mounting FC



The detector has been designed and developed specifically for installation in suspended ceilings. A circular opening of diameter 68 – 70 mm 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 above and fixed into position by means of the spring clips.

Please do not locate the detector near a heating or air conditioning source!

4. Hardware configuration



Yellow LED (Service LED):

On: Device is application less and unconfigured.

Flashing: Device is unconfigured (but with an application). Off: Device is configured / programmed, but in stop mode. Red LED:

- Flashes for 15 seconds after a reset or power-up condition. Flashes briefly on motion detection (only when device is
- unconfigured)
- Flashes briefly on IR command reception.

5. LON-Device functions

- The following objects are made available:
- 1 x Light Sensor
- 2 x Occupancy Sensor
- 2 x Occupancy & Light Controller 2 x Occupancy Controller
- 1 x SCC Command Module
- 2 x Sunblind Switch
- 3 x User Switch
- 1 x Scene Panel

The software application conforms with the Lonmark Interoperatibility guidelines.



7. Technical data



Area of coverage:	circular 360°
ange of coverage / 1 2.5 m / T = 18°C (max.):	Ø 24 m (walking across)
tecommended nountina heiaht:	2 – 3 m
ight measure:	Digital sensor, 08000 lux
Dimensions H x Ø [mm]:	ŠM FC
	63 x 98 84 x 97

$\zeta \in \mathsf{Declaration}$ 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)

8.	Article	1	Part-Nr.	1	Accessor	•
•••		/		/	710000001	

Туре	SM	FC	FM			
PD4N-LON	92834	92831	-			
LUXOMAT® Remote control:						
IR-PD-LON IR-Adapter for Smartphone	92835 92726					
Accessory: BSK Wire basket (Ø 200	92199					

9. Putting into operation the remote control IR-PD-LON (optional)



Wall bracket for remote control IR-PD-LON

Battery check: Open battery compartment by pres

sing the plastic springs together and removing the battery holder

10. IR-PD-LON functions

	Button	Function					
Special functions							
SVC	SVC	Send Service message					
Lighting functions	Lighting functions						
		Increase output light level					
		Decrease output light level					
		Turn on/off light					
	۲	Save current ambient light level as brightness set value					
HVAC functions (SCC Command Mo	dule)					
	0	Increase temperature set value					
	\bigcirc	Decrease temperature set value					
		Cycle through fan speeds: Auto, 1, 2, 3					
		Turn on/off the HVAC actuator					
	\bigcirc	Select Heat output mode					
	*	Select Cool output mode					
Functions Sunblin	d Switch						
\mathbf{OO}	0	Move up blinds / roller shutters					
STOP STOP	STOP	Stop blinds / roller shutters					
$\bigcirc \bigcirc$	\bigcirc	Move down blinds / roller shutters					
Functions User Switch							
		Turn on actuator/ controller					
$[\bigcirc \bigcirc \bigcirc \bigcirc \bigcirc$	\bigcirc	Turn off actuator/ controller					
Functions Scene	Functions Scene Panel						
51 52 53	<u>(51)(52)(53)</u>	Recall/learn selected scene					
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