**1. Mounting preparations**

Work on the 230V 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) anti-clockwise 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)

**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 \( \tau \): 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 \( \circ \): Night-time operation

Symbol \( \times \): Daytime/Night-time operation

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

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

**Mounting height**

| 1 | walking across |
| 2 | walking towards |

**5b. Range of Coverage PD4-1C**

**Mounting height**

| 1 | walking across |
| 2 | walking towards | seated |
6. Wiring diagrams

Terminal connection for parallel operation

Standard operation w. opt. arc extinction kit

Standard operation with external push button

Permanent light operation with external switch

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

Standby:
Additional manually switching at possible. The NC contact is to press for approx. 0.5 - 2 sec.

Parallely switching of max. 8 occupancy detectors.

7. Technical data PD4-1C-C

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

Area of coverage:
PD4-1C: circular, 360°
PD4-1C-C: V-shaped detection area, ideal for corridors

Range of coverage Ø H 2.5 m / T x 18°C:
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, 230V~, 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 105 103 97 FC 64 x 97 PM 4-1C-C 69 x 105 103 97 PM 4-1C-K 73 x 101 103 97

Visible portion when built into ceiling: 30 x 97 mm

8. LED-functional indicators, fault-finding

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

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
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)

9. Dimensions

10. Article / Part-Nr. / Accessory

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 cager: protects the presence
detector damage caused by balls or vandalism.
Part No. 92199

LUXOMAT® Wall bracket for PD4-1C-SM
Part No. 92441