B.E.G. LUXOMAT®




# PD2N-M-DACO-1C DALI-2

93455 EAN: 4007529934553

DALI-2 PIR motion detector with integrated DALI application controller, 360° detection, and a range of up to Ø10m (78 m²), with switching relay

## Order data

| Designation | Colour | Art.No |
|---|---|---|
| PD2N-M-DACO-1C DALI-2 | white | 93455 |

## Areas of application

- small offices
- open-plan offices

## Accessories

| Designation | Colour | Art.No |
|---|---|---|
| BLE-IR-Adapter | black | 93067 |
| IR-Adapter for Smartphones | black | 92726 |
| IR-PD-DALI-1C | - | 92116 |
| IR-PD-DALI | - | 92094 |
| IR-PD-DALI-LD | - | 92652 |
| IR-PD-DALI-Mini | - | 92112 |
| SM socle mounting set IP54 PD2N H | white | 93454 |
| SM socle mounting set IP54 PD2N H | black | 93783 |
| SM socle mounting set IP54 PD2N H | traffic white | 93782 |
| SM socle mounting set IP54 PD2N H | anthracite | 93781 |
| Cover ring PD2N FC | black | 93773 |
| Cover ring PD2N FC | traffic white | 93772 |

| | | |
|---|---|---|
| Cover ring PD2N FC | anthracite | 93771 |
| Cover ring PD2N FM | black | 93763 |
| Cover ring PD2N FM | traffic white | 93762 |
| Cover ring PD2N FM | anthracite | 93761 |
| Cover ring PD2N FM | white | 93760 |
| Wire basket BSK (Ø 200 x 90 mm) | white | 92199 |
| Wall holder PD2N/4N Typ A | traffic white | 93702 |
| Wall holder PD2N/4N Typ A | anthracite | 93701 |
| Wall holder PD2N/4N Typ A | white | 93700 |
| Wall holder PD2N/4N Typ A | black | 93703 |
| Wall holder PD2N/4N Typ A | white | 93164 |
| SM socket for Wall holder | white | 93192 |
| Blinds PD2N/PD3N | | 37367 |
| Pendulum mounting set PD2/3/4 SM | white | 93179 |
| Pendulum mounting set PD2/3/4 SM | jet black | 93193 |
| Adapter ring PD2N FM | | 93089 |

## Technical data

| | |
|---|---|
| Voltage: | 230 V AC ±10% 50 Hz |
| Dimensions: | Ø 84 x 85 mm |
| Power consumption: | approx. 2 W |
| Slave devices: | up to 8 |
| Detection area: | horizontal 360° (Ceiling mounting) |
| Range: | max. Ø 10 m across<br>max. Ø 6 m towards<br>max. Ø 4 m seated |
| Monitored area (tangential movement): | 78 m² / 2.5 m mounting height |
| Mounting height min./max./recommended: | 2 m / 5 m / 2.5 m |
| Degree / class of protection: | IP20 / Class II |
| Impact strength: | IK05 |
| Ambient temperature: | -25 °C to +50 °C |
| Housing: | polycarbonate, UV-resistant |
| Material color: | white mat, similar to RAL9010 |
| **Channel 1 (lighting control)** | |
| DALI output: | 80 mA (guaranteed), 125 mA (max.), shut down mechanism |
| Supported control gear: | DT0, DT5, DT6, DT7 |
| Supported control devices: | - (single master) |
| Follow-up time: | 1 min – 150 min |
| Orientation light: | 10 – 30 % / OFF / 5 min – 60 min / ∞ |
| Brightness set value: | 10 – 2500 Lux |
| **Channel 2 (HVAC or lighting control)** | |
| Switching power: | 2300 W, cos φ = 1<br>1150 VA, cos φ = 0.5<br>800 W LED<br>max. inrush current Ip (20 ms) = 165 A |
| Type of contact: | 1x µ-contact, dry, bistable |

## Product information

Occupancy detector with integrated DALI application controller for energy-efficient lighting control

DALI-2 certified product

Integrated DALI power supply

DALI interface for controlling digital, dimmable ECGs in broadcast mode

Manual switching or dimming via conventional pushbuttons

Bidirectional IR communication enables fast integration into the project management function of the B.E.G. One app

Complete range of functions can only be activated using the BLE-IR-Adapter and a compatible Smartphone or Tablet (Android, iOS).

Semi-automatic, full automatic, presence-independent or light-independent mode adjustable

Powerful switching relay for different operating modes, e.g. Cut-off function for DALI ballasts, HVAC, blackboard illumination.

Adjustable regulation dynamics (minimum and maximum values)

Adjustable speed and delay of the regulation

Single master version, not networkable

Detection area can be extended by using slave devices

Mixed light measurement with internal and external light sensor

DALI output power can be increased with accessories

Integrated daylight harvesting circuit (or switch output)

Adjustable switch-on value

Last value - Reminder function for switch-on value

Adjustable brightness set value and reflection factor

Indication of the current light sensor value in the B.E.G. One App

Self-check and display of device errors in the B.E.G. One App

Status LEDs can be activated / deactivated

PIN code

Corridor function - Deactivates the possibility to switch off the light via the push-button

Number of DALI participants can be determined quickly and reliably via the B.E.G. Online DALI Line Planner

Avoidance of standby losses of the lighting system in

| | |
|---|---|
| Follow-up time: | 5 min – 120 min, Alarm pulse, Pulse |
| Light measuring: | Mixed light measuring |

accordance with EnEV DIN V 18599-4

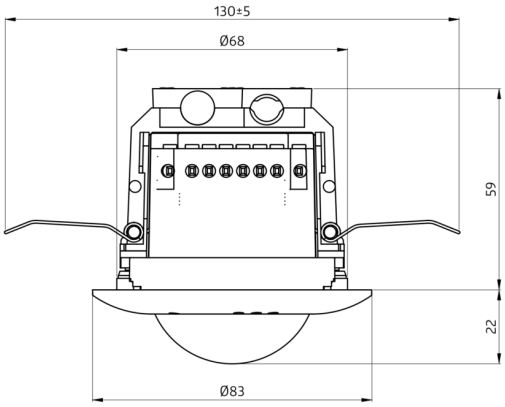
Software is backwards compatible with the first generation (except DSI, double lock and corridor function)

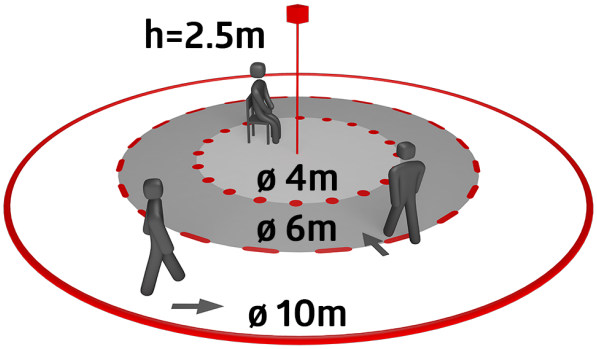
Factory setting 10 min follow-up time and 500 lux brightness set value

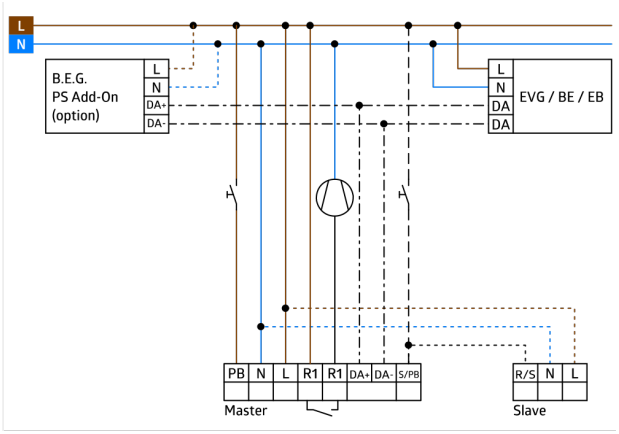
Including pre-assembled spring clamp with strain relief and contact protection cap for recessed ceiling mounting

Accessory for surface mounting available

**Application examples:**
small offices, open-plan offices


130±5
Ø68
59
22
Ø83


h=2.5m
ø 4m
ø 6m
ø 10m


L
N
B.E.G.
PS Add-On
(option)
L
N
DA+
DA-
L
N
DA
DA
EVG / BE / EB
PB
N
L
R1
R1
DA+
DA-
S/PB
Master
R/S
N
L
Slave

## Accessories



**BLE-IR-Adapter**
Art.No: 93067

Dimensions: 40 x 55 x 103 mm
Material color: black
Frequency: 2.4 GHz ISM band, GFSK
0.2 dBm + 5.3 dBi = 5.5 dBm



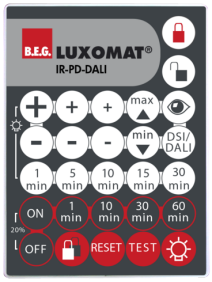

**IR-Adapter for Smartphones**
Art.No: 92726

Dimensions: 47 x 19 x 10 mm
Degree / class of protection: IP20
Ambient temperature: -20 °C to +40 °C




**IR-PD-DALI-1C**
Art.No: 92116

Battery: 3.0 V Lithium CR2032 (inclusive)
Dimensions: 80 x 60 x 8 mm
Material color: -




**IR-PD-DALI**
Art.No: 92094

Battery: 3.0 V Lithium CR2032 (inclusive)
Dimensions: 80 x 60 x 8 mm
Material color: -




**IR-PD-DALI-LD**
Art.No: 92652

Battery: 3 x 1.5 V Micro AAA (not included)
Dimensions: 83 x 53 x 17 mm
Material color: -




**IR-PD-DALI-Mini**
Art.No: 92112

Battery: 3.0 V Lithium CR2032 (inclusive)
Dimensions: 57 x 35 x 7 mm
Material color: -



**SM socle mounting set IP54 PD2N H**
Art.No: 93454

Dimensions: Ø 110 x 65 mm
Degree / class of protection: IP54
Material color: white, similar to RAL9010



**SM socle mounting set IP54 PD2N H**
Art.No: 93783

Dimensions: Ø 110 x 65 mm
Degree / class of protection: IP54
Material color: black, similar to RAL9005



**SM socle mounting set IP54 PD2N H**
Art.No: 93782

Dimensions: Ø 110 x 65 mm
Degree / class of protection: IP54
Material color: traffic white, similar to RAL9016



**SM socle mounting set IP54 PD2N H**
Art.No: 93781

Dimensions: Ø 110 x 65 mm
Degree / class of protection: IP54
Material color: anthracite, similar to RAL7016



**Cover ring PD2N FC**
Art.No: 93773

Dimensions: Ø 82 x 13 mm
Impact strength: IK05
Housing: polycarbonate, UV-resistant



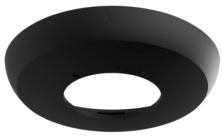
**Cover ring PD2N FC**
Art.No: 93772

Dimensions: Ø 82 x 13 mm
Impact strength: IK05
Housing: polycarbonate, UV-resistant



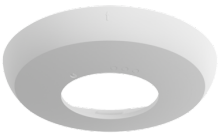
**Cover ring PD2N FC**
Art.No: 93771

Dimensions: Ø 82 x 13 mm
Impact strength: IK05
Housing: polycarbonate, UV-resistant



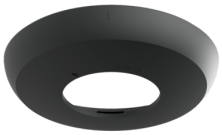
**Cover ring PD2N FM**
Art.No: 93763

Dimensions: Ø 106 x 20 mm
Impact strength: IK05
Housing: polycarbonate, UV-resistant



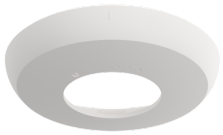
**Cover ring PD2N FM**
Art.No: 93762

Dimensions: Ø 106 x 20 mm
Impact strength: IK05
Housing: polycarbonate, UV-resistant



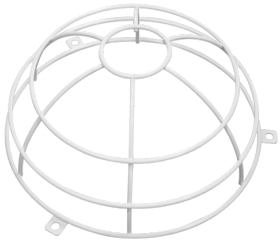
**Cover ring PD2N FM**
Art.No: 93761

Dimensions: Ø 106 x 20 mm
Impact strength: IK05
Housing: polycarbonate, UV-resistant



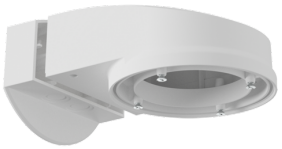
**Cover ring PD2N FM**
Art.No: 93760

Dimensions: Ø 106 x 20 mm
Impact strength: IK05
Housing: polycarbonate, UV-resistant



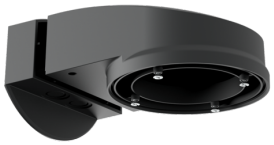
**Wire basket BSK (Ø 200 x 90 mm)**
Art.No: 92199

Dimensions: Ø 200 x 90 mm
Impact strength: IK09
Housing: coated steel basket



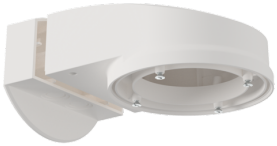
**Wall holder PD2N/4N Typ A**
Art.No: 93702

Dimensions: 133 x 106 x 66 mm
Degree / class of protection: IP54 / Class II
Housing: polycarbonate, UV-resistant



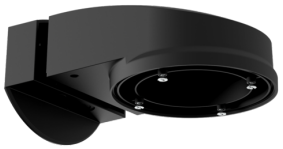
**Wall holder PD2N/4N Typ A**
Art.No: 93701

Dimensions: 133 x 106 x 66 mm
Degree / class of protection: IP54 / Class II
Housing: polycarbonate, UV-resistant



**Wall holder PD2N/4N Typ A**
Art.No: 93700

Dimensions: 133 x 106 x 66 mm
Degree / class of protection: IP54 / Class II
Housing: polycarbonate, UV-resistant



**Wall holder PD2N/4N Typ A**
Art.No: 93703

Dimensions: 133 x 106 x 66 mm
Degree / class of protection: IP54 / Class II
Housing: polycarbonate, UV-resistant



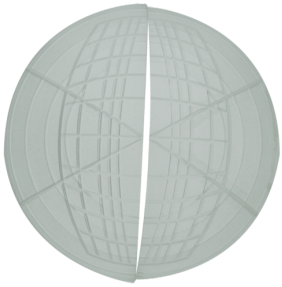
**Wall holder PD2N/4N Typ A**
Art.No: 93164

Dimensions: 133 x 106 x 66 mm
Degree / class of protection: IP54 /
Housing: polycarbonate, UV-resistant




**SM socket for Wall holder**
Art.No: 93192

Dimensions: 103 x 80 x 26 mm
Housing: polycarbonate, UV-resistant
Material color: white



**Blinds PD2N/PD3N**
Art.No: 37367

Housing: ABS



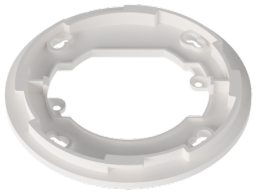
**Pendulum mounting set PD2/3/4 SM**
Art.No: 93179

Dimensions: 1 : Ø 113 x 79 mm, 2 : Ø 113 x 34 mm
Housing: polycarbonate, UV-resistant
Material color: white, similar to RAL9010



**Pendulum mounting set PD2/3/4 SM**
Art.No: 93193

Dimensions: 1 : Ø 113 x 79 mm, 2 : Ø 113 x 34 mm
Housing: polycarbonate, UV-resistant
Material color: jet black, similar to RAL9005



**Adapter ring PD2N FM**
Art.No: 93089

Dimensions: Ø 101 x 10 mm
Housing: polycarbonate, UV-resistant
Material color: white mat, similar to RAL9010