B.E.G. LUXOMAT®



PD4-M-HCL2-SM DALI-2

93485 EAN: 4007529934850

DALI-2 HCL PIR motion detector with integrated DALI application controller, 360° detection, and a range of up to Ø24m (450 m²), Multimaster, with switching relay

Order data

Designation	Colour	Art.No
PD4-M-HCL2-SM DALI-2	white	93485

Accessories

Designation	Colour	Art.No
BLE-IR-Adapter	black	93067
IR-HCL2-Mini	-	93374
PS-DALI-LINK-FC	white	92846
CTS HCL2	white	93177
Wire basket BSK (Ø 200 x 90 mm)	white	92199
Wire basket BSK (Ø 164 x 143 mm)	white	92467
Socket IP54 PD4-TRIO-SM	white	92386
Blinds PD4	transparent	92313
Wall holder PD4-SM	white	92441
Pendulum mounting set PD2/3/4 SM	jet black	93193
Pendulum mounting set PD2/3/4 SM	white	93179

Technical data

Voltage:	230 V AC ±10% 50 Hz
Dimensions:	Ø 124 x 85 mm
Power consumption:	approx. 2 W
Detection area:	horizontal 360° (Ceiling mounting)
Range:	max. Ø 24 m across max. Ø 8 m towards max. Ø 6.4 m seated
Monitored area (tangential movement):	450 m² / 2.5 m mounting height
Mounting height min./max./recommended:	2 m / 10 m / 2.5 m
Degree / class of protection:	IP20 / Class II
Impact strength:	IK04
Ambient temperature:	-25 °C to +50 °C
Housing:	polycarbonate, UV-resistant
Material color:	white, similar to RAL9010
DALI Control	
DALI output:	100 mA (guaranteed), 120 mA (max.)
Supported control gear:	DT5, DT6, DT7, DT8-Tc (HCL only possible with DT8-Tc, 2700 - 6500 K)
Supported control devices:	B.E.G. BMS (motion detection)
Follow-up time:	1 min – 150 min
Orientation light:	5 – 100 % / OFF / 1 min – 255 min / ∞
Brightness set value:	10 – 2500 Lux
Relay (dry NO)	
Switching power:	2300 W, cos φ = 1 1150 VA, cos φ = 0.5 800 W LED max. inrush current Ip (20 ms) = 165 A, Ip (200 µs) = 800 A
Type of contact:	1x µ-contact, NO contact
Follow-up time:	5 sec – 120 min (HVAC)

Product information

Bidirectional occupancy detector with integrated DALI application controller for an energy-efficient and biologically effective light control (Human Centric Lifghting)

Integrated DALI power supply and 3 push-button inputs

Preset and freely adjustable HCL curves (12 anchor points per 24h)

Adjustable communication mode "Broadcast" (1 light zone, without addressing) or "Multicast" (several light zones, HVAC, with addressing)

Dim-2-Warm: brightness and colour temperature can be infinitely adjusted simultaneously with a long keystroke

Calling up lighting scenes using accessory

Mixed light measurement with internal and external light sensor

External light sensor can be swivelled by 45

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

Quick commissioning and maintenance processes via Smartphone/Tablet App (Android, iOS) - No PC-Tool required

Detection range can be extended with up to 8 B.E.G. BMS multisensors

Up to 64 DT8 driver luminaires (Colour Type Tc), doubling the DALI output current with accessory may be necessary

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

The integrated real time clock regulates automatically the colour temperature and the brightness level in such a way that the human circadian rhythm is supported

An outdoor colour temperature light sensor, available as an accessory, can be used to measure / transmit the current daylight value

Lighting zone A for main lighting with segmented, daylight-dependent regulation in offset mode via 3 DALI groups

Lighting zone B for desk or accent lighting via separate DALI group or via integrated relay

Lighting zone B - Output type adjustable to switching output (factory setting) or regulation output (same as group 1)

Manual switching or dimming via conventional pushbuttons

Colour temperature can be adjusted separately and continuously via separate push-button input

Adjustable dynamics (minimum and maximum values) for brightness and colour temperature

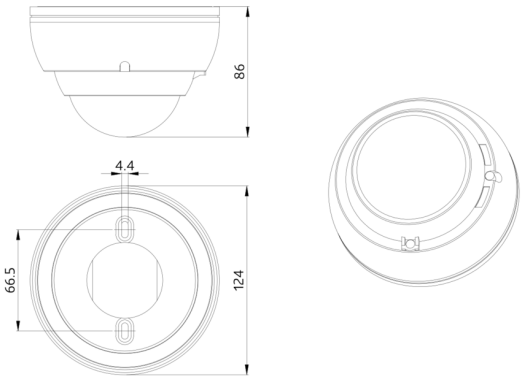
Status LEDs can be activated / deactivated

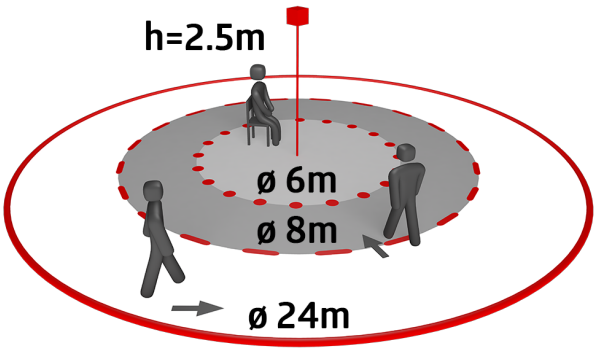
PIN code

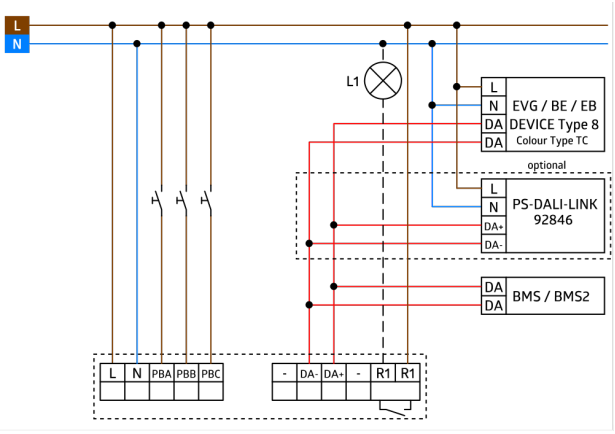
Orientation light function

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 accordance with EnEV DIN V 18599-4


86
4.4
66.5
124


h=2.5m
ø 6m
ø 8m
ø 24m


L
N
L1
L
N
DA
DA
EVG / BE / EB
DEVICE Type 8
Colour Type TC
optional
L
N
DA+
DA-
PS-DALI-LINK
92846
DA
DA
BMS / BMS2
L
N
PBA
PBB
PBC
-
DA-
DA+
-
R1
R1

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-HCL2-Mini
Art.No: 93374

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



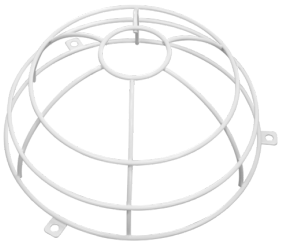
PS-DALI-LINK-FC
Art.No: 92846

Voltage: 110 – 277 V AC 50 / 60 Hz
Dimensions: 240 x 26 x 26 mm
Output voltage: 16 V DC (DALI, typical)



CTS HCL2
Art.No: 93177

Voltage: via DALI Bus, max. 22.5 V DC
Dimensions: 69 x 63 x 55 mm
Typ. power input: 7 mA



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

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



Wire basket BSK (Ø 164 x 143 mm)
Art.No: 92467

Dimensions: Ø 164 x 143 mm
Impact strength: IK09
Housing: coated steel basket



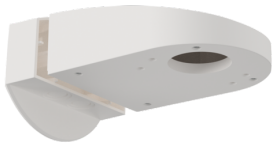
Socket IP54 PD4-TRIO-SM
Art.No: 92386

Degree / class of protection: IP54
Housing: polycarbonate, UV-resistant
Material color: white



Blinds PD4
Art.No: 92313

Housing: Housing UV- and shockresistant Polycarbonate
Material color: transparent



Wall holder PD4-SM
Art.No: 92441

Dimensions: 130 x 100 x 53 mm
Housing: polycarbonate, UV-resistant
Material color: white



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



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