# QBM D4i LS/PD LI R *(NEW)*

## Qualified Bluetooth mesh D4i Module | Light management systems



### Product family features

- With/without Daylight and Occupancy Sensor DEXAL Module
- Qualified Bluetooth mesh enabled by Silvair
- Control of DEXAL drivers or DALI drivers with additional DALI bus power supply
- Intended for installation into a standard ½" knockout
- Works with OSRAM Hubsense®
- Works with OSRAM DEXAL®

### Product family benefits

- Design freedom due to compact size
- Easy to integrate in luminaire
- Minimize internal wiring in combination with DEXAL drivers
- Secured product communication granted by ioXT and PSA Certificates

*Specifications are subject to changes without notice.*

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**1 / 11**

Sat Sep 14 19:54:47 CST 2024

## Areas of application

- Open offices
- Individual offices
- Conference rooms
- Classrooms
- Storage and break areas
- Stairways
- Toilets

## Technical data

**Electrical data**

| Input voltage DC | 12…22.5 V |
|---|---|
| Nominal voltage | 13,5 … 22,5 V |
| Mains frequency | 0 Hz |
| Maximum TX power | +4 dBm |
| Peak input current | 30 mA |
| Average input current | 10 mA |
| Radio frequency | 2.4 GHz |
| Wireless protocol | Qualified Bluetooth mesh enabled by Silvair |
| Wireless range | 11 m line of sight |
| Standby power | < 150 mW |
| Required DALI current (typical) | 10 mA |
| Peak DALI current | 30 mA |
| System wattage | 0.299999999999999 W |

**Dimensions & weight**
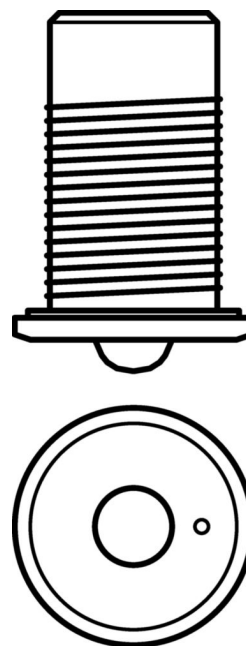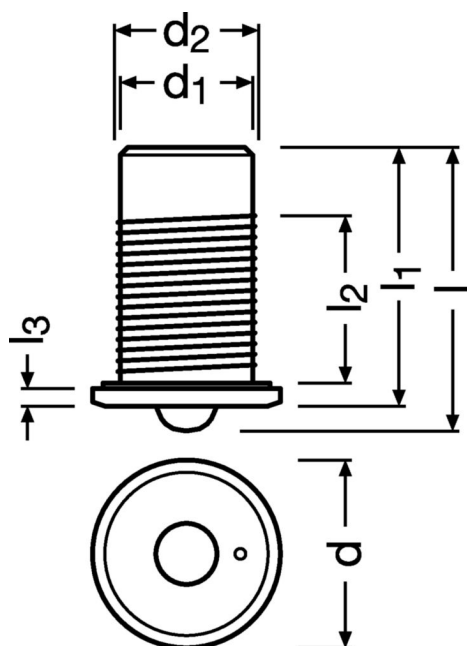


| | |
|---|---|
| Product weight | 18.20 g |
| Wire preparation length, input side | 7…9 mm |
| Cable cross-section, input side | 0.25…0.75 mm² |
| Length | 43.5 mm |
| Width | 28.0 mm |
| Height | 43.5 mm |
| Mounting hole diameter | 22.2…23.2 mm |
| Maximum allowed cable length | 10 |
| Screw thread length | 25 mm |
| Diameter | 28.0 mm |

**Temperatures & operating conditions**

| | |
|---|---|
| Maximum temperature at tc test point | 60 °C |
| Ambient temperature range | -20…+50 °C |
| Temperature range at storage | 0...70 °C |
| Permitted rel. humidity during operation | 0…90 % |
| Permitted relative humidity at storage | 0…95 % |

**Lifespan**

| Lifespan | 50000 h |
|---|---|

**Additional product data**

| Successor EAN | 6977078997553 |
|---|---|

**Capabilities**

| Operating range, light sensor | <1000 lx |
|---|---|
| Detection angle | 90 ° |
| Dimming interface | D4i |
| Detection area | 8 m² |
| Maximum installation height | 5 m |
| Type of sensor | Daylight / PIR |
| Dimmable | Yes |
| Type of installation | Luminaire integration |
| Compatibility | Works with OSRAM HubSense / Works with OSRAM DEXAL |
| Control output | D4i |
| Status Indicator | Blue: network Status / Red: Motion detected |
| Reset | Magnetic [1] |
| Number of connected drivers | 4 |
| Control interface | qualified Bluetooth mesh |
| Detection angle (Light sensor) | +/- 25° |
| Detection angle (PIR) | +/-90° |

1) by magnet

**Certificates & standards**

| Approval marks – approval | CE / D4i / ioXT / PSA |
|---|---|
| Protection class | II |
| Type of protection | IP54 |

**Logistical data**

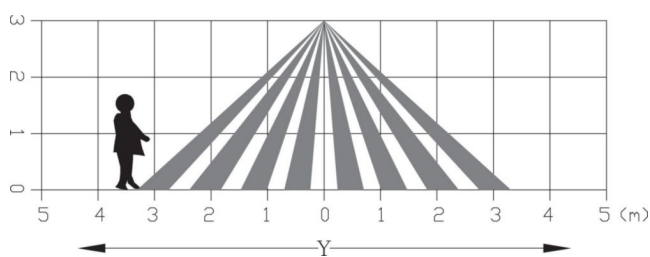| Commodity code | 90314990000 |
|---|---|

**Environmental information**

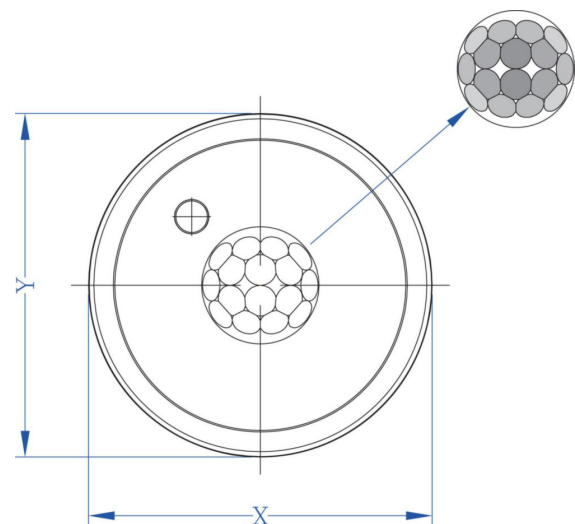| Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACh) | |
|---|---|
| Primary Article Identifier | 4052899627154 |
| Date of Declaration | 21-08-2024 |
| Declaration No. in SCIP database | In work |
| SCIP_STATUS | In work |
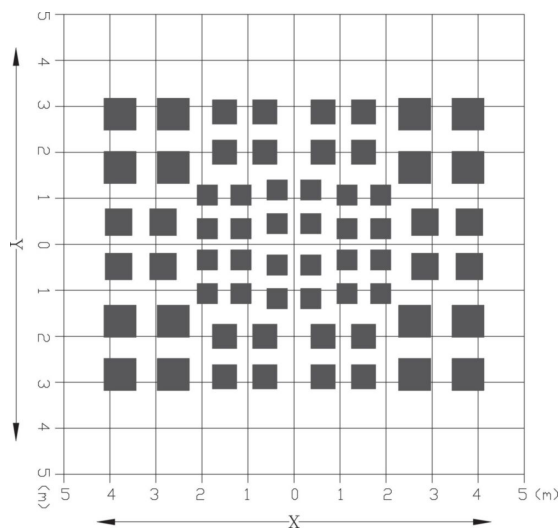
LS PD LI R DP detection pattern height
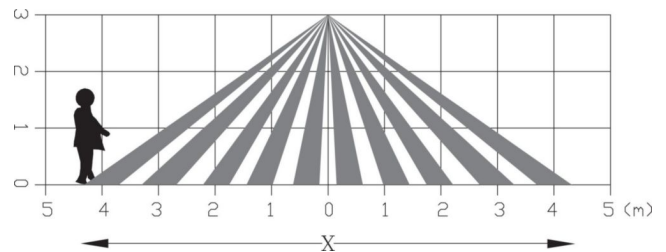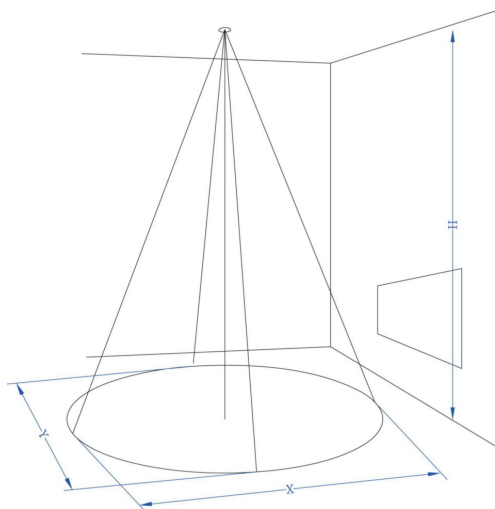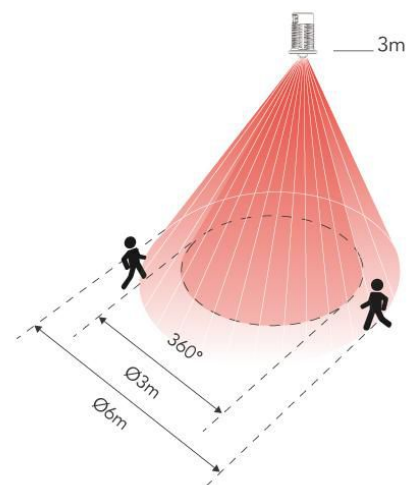


LS PD LI R DP1 detection pattern X direction



LS PD LI R DP2 detection pattern Y direction



LS PD LI R DP4



LS PD LI R DP3 detection area vs height



LS PD LI R detection

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Detection Area versus Hight



| H | X | Y |
|---|----|---|
| 3 | 8 | 6 |
| 4 | 10 | 8 |
| 5 | 8 | 8 |

LS PD LI R Pattern

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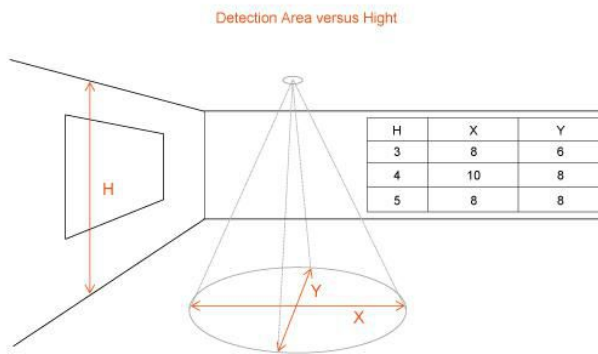
## Additional product information

- By integrating the device into a casing the wireless range could be affected, in particular by metal surfaces. Therefore, the wireless range needs to be verified after integration.
- The device could be reset to factory default by placing a strong Neodym magnet (e.g. N35, d=6.35 mm x h=1.59 mm) near the corner of the bezel for 5 seconds.
- The status LED of the device indicates following Network status. Fast blinking (Blue): Not connected to a network, Slow blinking (Blue); Connected to a network, Blink twice (Blue): Mesh package received, Long blink (Blue) Factory reset, Blink one (Red): Motion detected
- The device has passed successfully the SILVAIR Testing process.
- The device can be put into operation using the OSRAM HubSense Commissioning Tool (https://platform.hubsense.eu), subject to prior acceptance of the Terms of Use and the Privacy Policy.
- OSRAM may terminate or suspend the use of the HubSense Commissioning Tool at any time and for any or no reason in its sole discretion, even if access and use is continued to be allowed to others.
- The device complies with Bluetooth mesh Standard v1.0. It can also be used in 3rd party Bluetooth mesh network, that complies with this standard and that supports the mesh models of this device, and with certain 3rd party commissioning tools, that support the mesh models of this device. In order to ensure correct interoperability a verification with the 3rd party network components and the 3rd party commissioning tool is necessary in advance. Please contact OSRAM (support@hubsense.eu) to receive the actual list of supported models for this device.
- OSRAM shall have no liability for any 3rd party commissioning tool and does not make any representations, express or implied, about the availability and/or performance of such commissioning tool.
- OSRAM shall have no liability for and does not make any representations, express or implied, about the connectivity of OSRAM QBM products with any other products, that have passed the SILVAIR Testing process.

## Download Data

| File | | |
|---|---|---|
| Brochures | PDF | ▶Technical application guide DEXAL LED drivers (EN) |
| Product Datasheet | PDF | ▶QBM D4I LS PD LI R DS 280621 |
| CAD data | Compressed | ▶QBM D4I LS_PD LI R 200824 |
| Mandatory Publications | PDF | ▶QBM B NLC D4I CE 4322567 03 140524 |
| Mandatory Publications | PDF | ▶QBM B NLC D4i UKDoC 4323015 03 160524 |
| User instruction | PDF | ▶QBM D4I LS PD R  Qualified Bluetooth Mesh Presence Daylight Sensor  LENS SHIELDS |

## Logistical Data

| Product code | Product description | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Volume | Gross weight |
|---|---|---|---|---|---|
| 4052899627154 | QBM D4i LS/PD LI R | Shipping carton box 50 Pieces | 330 x 287 x 195 mm | 18.47 dm³ | 30.60 g |

The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit

## Disclaimer

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.