

## QBM DX R

Qualified Bluetooth mesh DEXAL Module | Actuators



### Areas of application

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

### Product family benefits

- Design freedom due to compact size
- Easy to integrate in luminaire
- Minimize internal wiring in combination with DEXAL drivers

### 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 datasheet

## Technical data

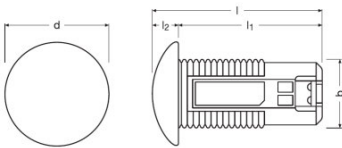
### Electrical data

<b>Input voltage DC</b>	12...22.5 V <sup>1)</sup>
<b>Peak input current</b>	30 mA
<b>Average input current</b>	22 mA
<b>Radio frequency</b>	2.4 GHz
<b>Maximum TX power</b>	+4 dBm
<b>Wireless protocol</b>	Qualified Bluetooth mesh enabled by Silvair <sup>2)</sup>
<b>Wireless range</b>	10 m line of sight
<b>System wattage</b>	0.50 W
<b>Standby power</b>	< 1W

<sup>1)</sup> Powered by DEXAL interface, I < 250 mA

<sup>2)</sup> See additional product information

### Dimensions & weight



<b>Length</b>	52.0 mm
<b>Diameter</b>	32.0 mm
<b>Mounting hole diameter</b>	22.2...23.2 mm
<b>Product weight</b>	18.20 g
<b>Wire preparation length, input side</b>	7...9 mm
<b>Cable cross-section, input side</b>	0.2...0.75 mm <sup>2</sup>
<b>Maximum allowed cable length</b>	3 m

### Temperatures & operating conditions

<b>Ambient temperature range</b>	0...+50 °C
<b>Permitted rel. humidity during operation</b>	0...85 % <sup>1)</sup>
<b>Temperature range at storage</b>	0...60 °C
<b>Permitted relative humidity at storage</b>	0...95 % <sup>1)</sup>

## Product datasheet

Maximum temperature at tc test point	60 °C
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<sup>1)</sup> Non-condensing

### Lifespan

Lifespan	50000 h <sup>1)</sup>
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<sup>1)</sup> ta=50% and 50%RH

### Capabilities

Control output	DEXAL
Number of connected drivers	1 <sup>1)</sup>
Dimmable	Yes
Type of sensor	-
Operating range, light sensor	-
Detection angle	-
Maximum installation height	-
Compatibility	Works with OSRAM HubSense / Works with OSRAM DEXAL <sup>2)</sup>
Status Indicator	Green: network Status / Red: Motion detected
Reset	Magnetic <sup>3)</sup>

<sup>1)</sup> DEXAL LED driver

<sup>2)</sup> See additional product information

<sup>3)</sup> by Neodymium magnet

### Certificates & standards

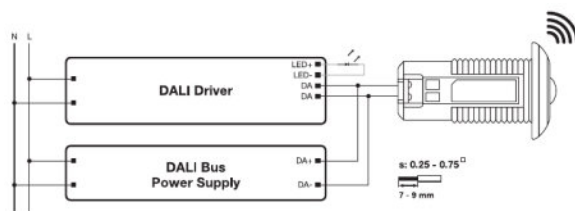
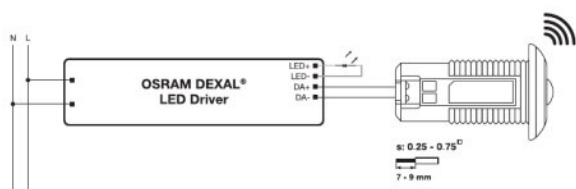
Approval marks – approval	CE
Type of protection	IP20
Standards	Acc. to EN 61347-2-11 / Acc. to ETSI EN 301 489 - 1 / Acc. to EN 50581 / Acc. to EN 62479 / Acc. to EN 300 328 / Acc. to EN 301 489-17

### Logistical data

Commodity code	853710989900
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### Wiring Diagram

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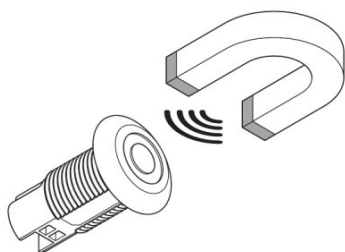


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Wiring diagram

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Wiring diagram



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Others graphics

## Product datasheet

### Additional product information

- By integration 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 indicate following Network status. Fast blinking (Green): Not connected to a network, Slow blinking (Green); Connected to a network, Blink twice (Green): Mesh package received, Long blink (Green) Factory reset, Blink one (Red): Motion detected
- 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. In order to ensure correct interoperability a verification with the 3rd party network components is necessary in advance. Please contact OSRAM ([support@hubsense.eu](mailto:support@hubsense.eu)) to receive the actual list of supported models for this device.

### Download Data

File	
	User instruction QBM DX
	Declarations of conformity EC-DoC LMS QBM DX family 9C1-3816475-EN-00 2019
	CAD data CAD Data STP QBM DX R

### Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4062172088138	QBM DX R	Shipping carton box 36	332 mm x 266 mm x 117 mm	10.33 dm <sup>3</sup>	1033.00 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.