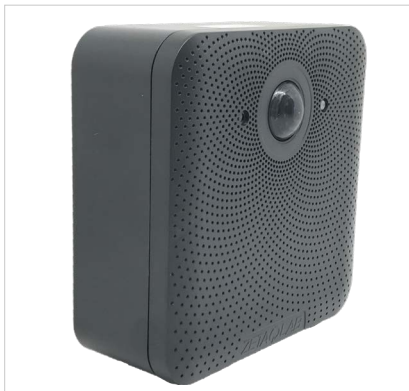


# D-SENSOR-MB D-SENSOR-HB

## DALI-2 multisensor for industrial and logistics applications



DALI-2 Multi-Master motion and light sensor for industrial and logistics applications.

### Main features

- Occupies 1 DALI address
- Power from DALI bus
- Current consumption from DALI bus 6 mA
- Motion sensor for Mid Bay (10m) and High Bay (17m)
- Ambient light sensor
- IP52 protection degree

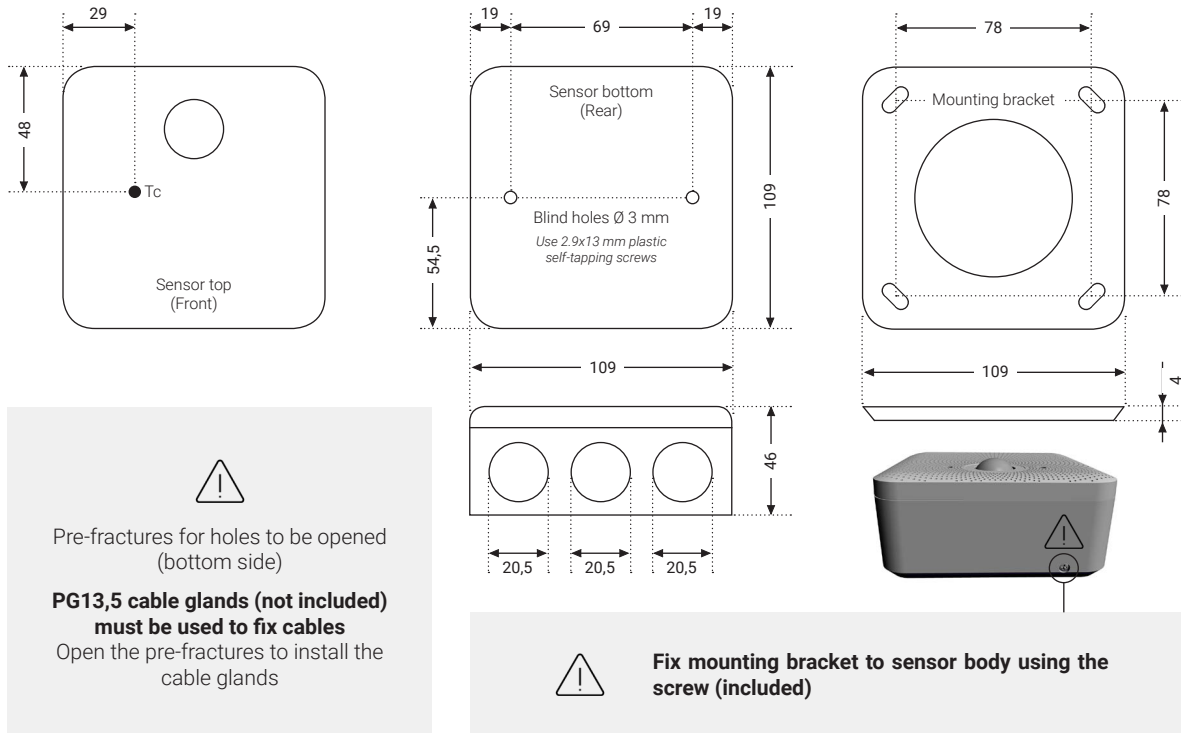
## Models

Model	Code	Description
D-SENSOR-MB	ZQ19-01R0	DALI-2 Multi-Master sensor for industrial application (Mid Bay - Hmax 10m - FOV 108°)
D-SENSOR-HB	ZQ19-02R0	DALI-2 Multi-Master sensor for industrial application (High Bay - Hmax 17m - FOV 69°)

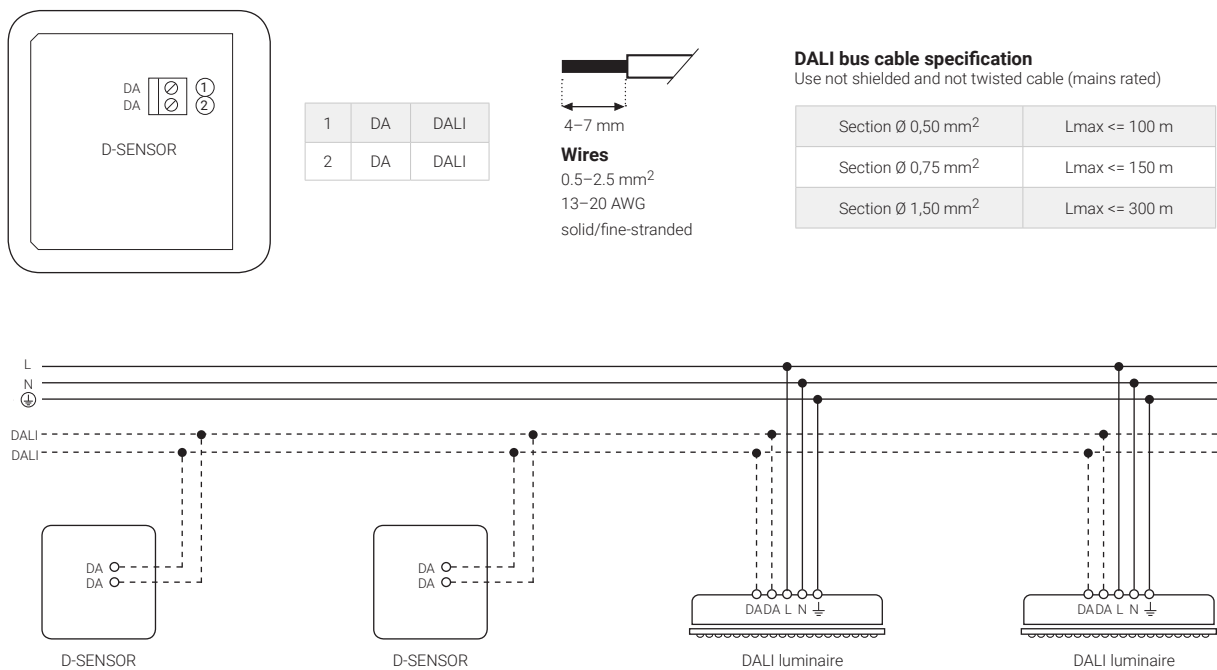
## Technical specifications

Input power	From DALI bus, 12-22,5 Vdc
DALI interface	DALI-2 Multi-Master (compliant to IEC62386 part 101, 103) Current consumption from DALI bus 6 mA 1 DALI address required Instance 0 provide information regarding movement detector (compliant to IEC62386 part 303) Instance 1 provide information regarding lux detector (compliant to IEC62386 part 304)
Motion sensor MB (Mid Bay)	Passive InfraRed, Hmax 10m - FOV 108° - 92 detection zones (cluster)
Motion sensor HB (High Bay)	Passive InfraRed, Hmax 17m - FOV 69° - 128 detection zones (cluster)
Light sensor	Range 5 lux to 500 lux (direct). Maximum recommended height for "closed loop" control 10-12m
Diagnostic LED	Identification for DALI addressing/Power/Activity
Connector block	Screw terminals. Wire cross section 0,5-2,5 mm <sup>2</sup> (AWG 13-20)
Operating Environment	Ambient temperature (ta) -5°C to +55°C. Relative humidity 10% to 90% Max. housing temp. (tc) 65°C. Storage -20°C to +70°C
Housing	Plastic IP52
Dimensions	109 x 109 x 50 mm
Weight	200 g
Standards & Legislation	Compliant to IEC 62386 parts 101/103/303/304 SAFETY (LVD - 2014/35/EU): EN 61347-1, EN61347-2-11 EMC: EN 61000-3-2, EN 61000-3-3, EN 55015, EN 61547, EN 301489-1, EN 301489-17 Environment: WEEE and RoHS directives

## Dimensions (mm)



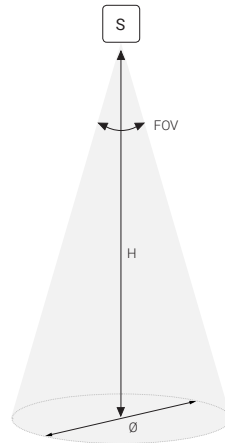
## Wiring diagram



## Motion sensor

### Motion detection area

H	MB Ø FOV 108°	HB Ø FOV 69°
3 m	8,3 m	4,1 m
4 m	11,0 m	5,5 m
5 m	13,8 m	6,9 m
6 m	16,5 m	8,2 m
7 m	19,3 m	9,6 m
8 m	22,0 m	11,0 m
9 m	24,8 m	12,4 m
10 m	27,5 m	13,7 m
11 m	-	15,1 m
12 m	-	16,5 m
13 m	-	17,9 m
14 m	-	19,2 m
15 m	-	20,6 m
16 m	-	22,0 m
17 m	-	23,4 m



### Motion sensor (PIR)

Sensor performance listed into *Motion detection area* table are referred to ambient temperature of 25°C and objects of size 70x25 cm (human body) moving at a speed of 1.0 m/s.

Maximum height with temperature difference between the target and the background of at least 4°C:

- D-SENSOR-MB: 10m
- D-SENSOR-HB: 17m

Detection zones within the field of view:

- D-SENSOR-MB: 92 cluster
- D-SENSOR-HB: 128 cluster

Notes:

- Usable ambient temperature -10°C..+55°C (do not use in the presence of ice or condensation).
- Time required to stabilize the signal from the start-up 30 sec.
- The sensor have not be located in the immediate vicinity of a warm air current, because that can trigger the motion detection.