

Datasheet #89034019



The LOYTEC L-DALI multi-sensor performs motion detection and measures the lux level. It integrates perfectly into the L-DALI product line of lighting controllers and LROC-40x room automation controllers. With the already built-in infrared receiver, lighting scenarios can be recalled via a remote control or lighting groups can be dimmed. In combination with the L-DALI controller, the desired automation status is achieved with a single push of a button. Building-wide, the connection to DALI and the gateway connection to the respective building network, e. g. BACnet, LonMark, etc. ensure a secure and fast communication with LOYTEC devices.

Motion detection is performed with the PIR sensor of the LDALI-MS1. The motion detection is divided into 92 zones and thus very sensitive. The sensor can be tilted to max. 40° allowing a perfect targeting of the detection area. The opening angle of 98.5° at a mounting height of 3 m covers more than 38 m². Objects can be detected at a distance of up to 12 m.

Features

- Easy integration into LOYTEC L-DALI lighting systems and LROC-40x room automation controllers with a special focus on lighting control and reducing energy costs
- Motion detection
- Lux level measurements
- Built-in infrared receiver for infrared remote control
- LDALI-MS1 can be mounted in a flush-mounted box or directly in cavity walls
- Multi-master compatible, up to 16 LDALI-MS1 sensors per DALI channel given a sufficiently dimensioned bus supply
- The sensor is supplied via the DALI channel, no external power supply is necessary
- 92 zones for motion detection
- The sensor head can be tilted up to 40° vertically and rotated 360° axially

Specifications

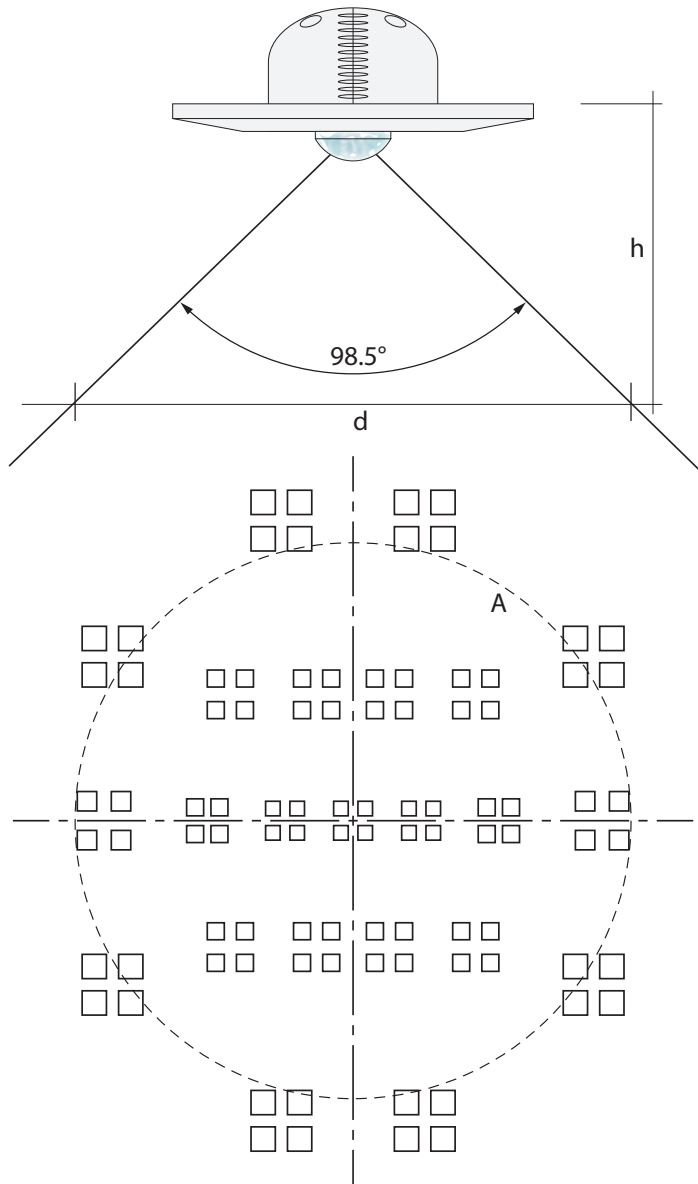
Dimensions (mm)	Total-Ø: 98; flush-mounted-Ø: 46; height flush-mounted: 30; DIM040
Installation	flush-mounted installation or direct installation in cavity walls
Power supply	DALI bus, typ. 4.1 mA at 16 VDC
Operating conditions	0 °C to 50 °C, 10–90 % RH, non condensing, degree of protection: IP20
Interfaces	1 x DALI, protected against overvoltages (power supply) 1 x infrared remote control receiver
Color	RAL 9010, pure white
For use with	LDALI-3E102-U, LDALI-3E104-U, LDALI-3E101-U, LDALI-ME204-U, LDALI-ME201-U, LROC-40x

Resource limits

Number of LDALI-MS1	16 per DALI channel
Infrared motion receiver max. coverage	12 m, 92 zones, opening angle: 98.5°, difference in temperature: target to environment: > 4 °C
Lux level measurement	0 – 2500 lux, resolution: 1 lux

L-DALI Multi-Sensor

LDALI-MS1



h	d	A
2.5 m	5.80 m	26.4 m ²
2.7 m	6.7 m	30.8 m ²
3.0 m	6.96 m	38.1 m ²
3.5 m	8.12 m	51.8 m ²
4.0 m	9.28 m	67.7 m ²
4.5 m	10.4 m	85.7 m ²
5.0 m	11.6 m	105.8 m ²

Order number	Product description
LDALI-MS1	DALI multi-sensor (motion detection, brightness sensor, IR sensor)