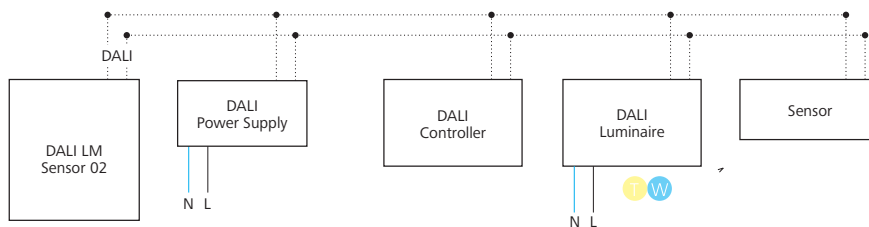


A surfaced mounted combined ambient light and PIR motion sensor that can sense the motion of people and objects and ambient illuminance levels (lux [lx]). The sensor can operate as a simple sensor with its data being processed by another device on the same DALI bus (passive mode), or as a combined sensor and control device (active mode).

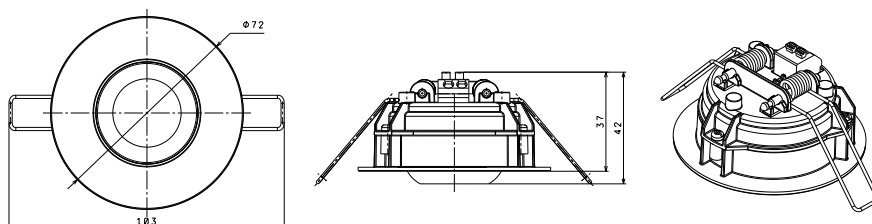


DALI LM Sensor 02

Wiring diagram



Parameter	Ranges of values	Settable by	Description
Address	1 to 64	Any DALI configurator	Address of the sensor
Illuminance level	10 – 1000 lx	-	Measured value of illuminance (read only)
Movement detection status	Movement detected / Movement not detected	-	Output of movement detector
Timing	10s – 60 min	USB/DALI Bridge, BlueBridge, DeeBridge	Parameter defines period between no movement detection and transition to OFF state
Dimming level for ON state	0 – 100 %	USB/DALI Bridge, BlueBridge, DeeBridge	Dimming value in movement detected state (Lux regulation disabled)
Dimming level for OFF state	0 – 100 %	USB/DALI Bridge, BlueBridge, DeeBridge	Dimming value in movement not detected state (Lux regulation disabled)
Final illuminance level for ON state	10 – 1000 lx	USB/DALI Bridge, BlueBridge, DeeBridge	Desired illuminance value in movement detected state
Final illuminance level for OFF state	10 – 1000 lx	USB/DALI Bridge, BlueBridge, DeeBridge	Desired illuminance value in movement not detected state
Illuminance regulation	Active / Non-active	USB/DALI Bridge, BlueBridge, DeeBridge	Activates or deactivates the illuminance regulation
Movement detection	Active / Non-active	USB/DALI Bridge, BlueBridge, DeeBridge	Activates or deactivates the movement detection
Calibration value	Calibration coefficient	USB/DALI Bridge, BlueBridge, DeeBridge	Calibration coefficient that makes lux measured value equal to value measured by reference lux meter
Group address for regulation	1 - 16	USB/DALI Bridge, BlueBridge, DeeBridge	Define group address for control
Transition fading	Defined by DALI standard	USB/DALI Bridge, BlueBridge, DeeBridge	Define group address for cold channel control



Key features

- Detection angle of 120°
- Mounting height up to 6 m
- Measures illuminance in the range of 10–1000 lx
- Biasing, communication, and configuration via the DALI bus
- Single-point calibration option
- DALI/USB Bridge, DeeBridge or BlueBridge

Function

DALI LM Sensor 02 is a DALI compatible device that combines PIR based motion detector and ambient light sensor. Both sensors can be configured independently. PIR sensor configuration allows for definition of luminaire address (group or individual) and delay before going to no-movement state. Light level sensor allows for setting the light levels for movement detected and movement not detected states. Sensor is capable of direct regulation of luminaires using DALI commands to reach configured light level. When active regulation is disabled, sensor status information can be read by other DALI controller.

Connections

Cable Wires AWG 24 (0.5 mm²)

Power

DALI consumption < 9 mA
Insulation Class II

Mechanical data

IP Rating IP20
Weight 50 g
Dimensions Ø 72 x 37 mm
Opening Ø 63 mm

Operating conditions

Ambient temp. range 0 °C - +40 °C
Relative humidity 85 % (non-condensing)
Storage temp. range -40 °C - +70 °C