

Electronic Intelligent Controls, S.L. Passatge Garrotxa, 6

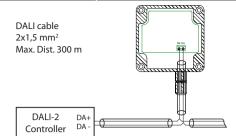
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EN

Installation drawing



Motion detection LED indicator (red)

Configuration

pushbutton

alk Direction

. 16 Vdc ± 30%

4.6 mA

DALI-2

...DALI

.1200 bps

..Blink red 30 s

Motion sensor detection area (*)

Height (m)	Diameter (m)
3	6,0
4	8,0
6	11,0
8	13,0
10	13,0
>12	9,0

	7	0,0		
	6	11,0		
	8	13,0		
	10	13,0		
	>12	9,0		
(*) In optimal sensitivity conditions				
-20°C to +85°C				
condensation)				

Storage	20°C to +85°C (-4°F to +185°F)
Humidity values (no condensation)	
Operating	10% to 90% RH at 50°C
Storage	
Mechanical installation	
Type	Surface mounting
Fixing	
Mechanical features	
Dimensions	80x82x55mm
Weight	
Enclosure colour	RAL 7035
Enclosure material	Polycarbonate
Cable cross section	0,5 mm ² - 2,5 mm ² (14 AWG)
Jacket diameter	Min 4,5 mm - Máx 10 mm
Electrical security	Class III
Protection degree	IP65 (EN 60529:1991)
CE Conformity	
Low voltage directive	2006/95/EC
Electromagnetic Compatibility Directive	
Marking	CE
Applicable harmonized standards	
Product standard	EN 60730-1:2011
Electrical security	EN 60730-1:2011
Electromagnetic compatibility	EN61000-6-3
	EN 61000-6-1
NOTES:	
1) The device is not intended for use as part of	a security system detector

1) The device is not intended for use as part of a security system detector. 2) For an optimal detection of the motion sensor, the installer should adjust the sensitivity potentiometer to the environment where device will be installed

(*) Refer to the DALI-2 controller insallation manual for the commissioning process

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Product reference		
Multilux 360° Bus DALI, Motion and light high bay multisensor with 360° detection area, bus DALI		
Related documents		
Installation wiring	DEC	
The package of this product is considered as industrial packaging intended for professional use only. The manufacturer is not responsible of the incorrect installation or use of the product. Specifications are subject to change without notice.	CE © 2018 e-Controls®	

Multilux 360 Bus DALI

Motion detector and light sensor with DALI-2 interface for hiah bay applications in open spaces

Ordering number: ML.082001-000

Multilux 360° DALI is a multisensor designed to operate in high bay applications in DALI-2 control networks, which has two sensors in the same device: a motion sensor for motion detection in large heights and in 360 degree area applications. and a light sensor to measure ambient light level in a zone.

The device includes a DALI-2 communication interface to operate in this kind of networks to control the on/off switching and dimming of DALI luminaries through a DALI-2 communication gateway.

Product description

Multilux 360 DALI is an innovative multisensor for lighting control which includes a communication interface based in the DALI-2 standard, that is used to communicate with a DALI-2 gateway to control the lighting installation depending on the motion and light detected.

The device is including a high sensibility motion sensor with an special lens that provides a 360° detection area around the device, and a light sensor that measures the light level in the zone.

Functional description

Introduction

The control system to install with this product must be based at least with three elements: This multisensory, a DALI-2 gateway compliant with the DALI-2 standard and a set of DALI luminaries over which the lighting control through the DALI bus will be done

Operating

The device is constantly measuring any motion detection in the area of operation, providing instantly any change as a detection event to the DALI network.

Configuration Detection sensibility

The device is including a potentiometer to adjust the motion detection sensibility. Turn the potentiometer clockwise to adjust more sensibility and vice versa.

To adjust the sensibility the device must be connected to the bus and powered.

Product installation

Requirements for the product installation

- 1. The installation of the device requires a crosshead screwdriver, a flat 3mm screwdriver and an stripping tool
- 2. Use a two wire 1.5mm2 section with jacket to ensure optimal IP waterproof Unfold 20 mm of the jacket and peel the cable 5mm to contect it to the device.

Installation process

The enclosure of the device must be installed in a flat surface.

- 1. Be sure that there is no DALI voltage in the DALI wire to connect to the device.
- 2. Unscrew the four screws of the multisensor cover to access the bus terminal. 3. Feed the cable through the fitting conduit and connect the wires into the
- terminals. The DALI bus does not have polarity.
- 4. Fix the device and screw the fitting conduit nut. Be sure that the jacket has been correctly fastened, otherwise the waterproof can't be guaranteed.
- Make two holes on the ceiling and fix the device firmly.
- Close the device with the cover in correct position and fix it with the four screws. Ensure that the cover is closed, otherwise the waterproof can't be guaranteed.
- 8. Power the device with the DALI-2 supply and check the red LED indicator is ON
- NS101650200030 for around 60 seconds.
 - 9. Configure the device with a DALI tool.

Instruction sheet



Both values are used in a DALI-2 gateway for the lighting control, with the goal to save energy switching on/off the lights depending on the occupancy status of the zone, and dimming the lights when there is enough natural light incident into the installation

The product has been designed to detect motion when it is installed in high bay applications, like warehouses, and open spaces that require a large detection area. The waterproof IP65 enclosure makes it ideal to install in humidity areas and it can operate in harsh temperature environments up to -20°C.

The light level is also measured and remains as a value in the device for a polling

guery from the DALI-2 gateway. With this information, the DALI-2 gateway is responsible for the lighting control over the lighting groups defined previously in the lighting project.

I ED indicator

A red LED indicator in the multisensor blinks when a valid detection is detected by the device. This LED can be seen through the semi-transparent lens in front of the device

Enable/disable LED indication

Through the configuration pushbutton of the device it is possible to enable and disable the LED indicator, to avoid the blinking when motion is detected.

Press the configuration pushbutton of the device during 3 seconds to enable/ disable the LED indication operation.

Caution:

- · The device can't be installed over shelves, behind curtains, near heat/cool air handling units and avoid direct sun radiation over the device · Disconnect the device from the power supply before mounting or moving the
- sensor · Do not leave cables peeled or turned around the device.
- · Do not connect the device with the hands wet.
- · Do not open or hole the device.
- · Keep the device and cables away from humidity and dust.
- Clean the front cover with a water moisture soft cloth.

Enclos .PIR (Infrared) Enclos Number of detection zones 111 Cable Detection surface .. .360° lacket 118º Detection angle... Flectri Detection range See table Protect Maximum detection distance 18 m CE Con Sensitivity adjustment Potentiometer Low vo Maximum time for stabilization after reset...60 s Electro Markin Detection range on the sensor 0 to 500 lux Applica 12 bits Produc Spectral bandwidth range... .400 to 800 nm Electri Maximum sensitivity wavelength..... 570nm Electro Motion detection Red ON NOTES

Wink DALI command (*) Commissioning in DALI network (*)

Mechanical description

Motion

sensor

Light sensor

Plan view (installed at 8 m height)

Detection diagram

13 m

Front view

Sensitivity

adjustment

detection

Motion detector

Technical features

Maximum rated current

NOTE: Use only DALI-2 power supply.

(lux sensor)

Communication speed.

Supply power

Technology.

Interface..

Motion sensor

Technology

Light sensor

Resolution

Led indicator

650200030

Operating voltage

Communications

Unique identifier at learning time Front led blinks every second in Wink state GTIN unique identificaction code.... 07AC0A05787C Temperature values Operating ... -20°C to +50°C (-4°F to 104°F)

.13 m.

Standard...IEC 62386-101 ed2, 103 ed1 (input device), 303 ed1 (PIR), 304 ed1