

Sensors Multilux Bus

Multisensor for high-bay applications



Lighting energy saving in large areas

Multilux Bus is an innovative multisensor designed to be installed in large areas like industrial buildings, freezing areas, airports, outdoor lighting, etc., providing a lighting control based on motion detection and lighting dimming, giving a high energy saving switching lights off in unoccupied zones and dimming lights depending on the setpoint configured.

An accurate motion sensor allows installing the device up to 18 metres height, being an ideal product for logistic areas and other buildings with occasional people working on it, where lights can be switched off to improve energy consumption. Three different models are available: The High-Bay model for large detection areas, the 360° model for medium detection range and the third model for 180° detection area, specially indicated for aisles and corridors. An integrated lighting sensor measures the light level on the zone and dims the lights depending on the daylight level inside the building and setpoint configured.

Two product family are available: One for DALI networks and one for LonWorks TP/FT-10 networks. The LonWorks models include in integrated constant light controller for lighting control and a temperature sensor.

The device can operate down to -25°C and is mounted in an IP65 surface mounting enclosure, designed to be installed in hostile environments like freezing warehouses and outdoor lighting.

Height detection up to 18 metres

Motion sensitivity adjustable by network

Lighting range 0 to 500 lux

Operating range -25°C a +50°C

IP65 surface mounting enclosure

DATASHEET

Automatic light dimming and switching for industrial applications

Energy Saving

- Motion sensor to switch off unoccupied zones
- Light sensor for automatic light dimming
- Light threshold to switch off non-dimming luminaries
- Temperature sensor for climate control

Models

- DALI: For DALI networks
- DALI Master: For stand-alone DALI applications
- Lon TP/FT-10: LonWorks twisted pair to connect to DALI gateways or 1-10V outputs
- Lens 360°: Omni directional detection
- Lens 180°: Linear coverage for aisles
- Lens High-Bay: High-Bay and Omni directional

Detection coverage area

Multilux 360	Height	Diameter
	3	6
	4	8
	6	11
	8	13
	10	13
	>12	9

Features

- Supply Voltage:
TP/FT-10: 24Vac/Vdc
DALI: 16Vdc DALI supply, 4,5mA
- Motion pyroelectric sensor of 4 elements
- Maximum detection distance 18 meters
- Coverage detection angle 180° or 360°
- Light sensor range: 0 to 500 lux
- Light sensor resolution: 12 bits
- Light sensor measurement area +/- 50°
- Detection sensibility adjustable by bus
- Light level setpoint setting by bus
- Light sensor with visible colour correction radiant filter
- Surface mounting
- Protection level IP65
- Dimensions and weight
Model 360: 80x82x55mm, 250 gr.
Model 180: 80x82x85mm, 295 gr.
Model High-Bay: 80x82x55mm 250 gr.

Multilux 180	Height	Length	Width
	3	6	1,4
	4	8	1,2
	6	11	1,0
	8	12	1,0
	10	15	0,5
	>12	18	0,5

Ordering numbers

- ML.082002-003**
Multilux High-Bay DALI Master
- ML.082001-003**
Multilux High-Bay Bus DALI
- ML.082001-000**
Multilux 360 DALI
- ML.082001-001**
Multilux 180 DALI
- ML.623000-000**
Multilux 360 Lon TP/FT-10
- ML.623000-001**
Multilux 180 Lon TP/FT-10

Multilux High-Bay	Height	Diameter
	5	10
	6	11
	8	13
	10	16
	12	19
	14	22

Multilux Bus



Input / Output Diagrams

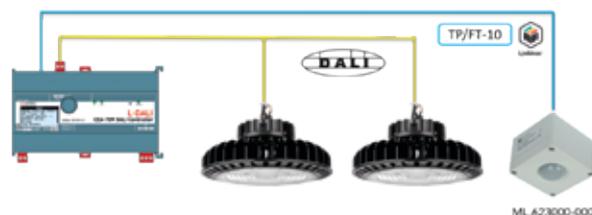
Solution with DALI Controller and DALI multisensor



Solution with integrated CLC in Multilux High Bay DALI Master



Solution with DALI Controller and LonWorks multisensor



LonMark Functional Profiles

Light Sensor, Presence Detector, Occupancy Controller, Constant Light Controller, Temperature Sensor