



ML.623000-000

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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.

A very accurate motion sensor allows installing the device up to 18 metres high, being an ideal product for logistic areas and other buildings where there are few people and would be able to switch lights off. Two kinds of lens, one with 360° detection area and another with 180° detection for aisles, which allows selecting the correct product depending on the installation.

An integrated lighting sensor on the device measures the light level on the zone and adjusts it depending on the daylight level inside the building and setpoint configured.

There are three product references: DALI, TP/FT-10 LonWorks twisted pair and PowerLine to communicate through electrical mains. The LonWorks models include all needed functions for automatically lighting control. The DALI one is used with a DALI gateway in a system.

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

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
- Lon TP/FT-10: LonWorks twisted pair to connect to DALI gateways or 1-10V outputs
- Lon PowerLine: Power line Communication up to 1-10V output modules
- Lens 360°: Omni directional detection
- Lens 180°: Linear coverage for aisles

Detection coverage area

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

Product	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

Features

- Supply Voltage:
PowerLine: 95 to 250Vac - 50/60Hz
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.

Ordering numbers

ML.082001-000
Multilux 360 DALI

ML.62X000-000
Multilux 360 Lon TP/FT-10

ML.51X000-000
Multilux 360 Lon PowerLine



- OPTIONS:
X=1 → Motion
X=2 → Motion Light
X=3 → Motion Light Temperature

ML.082001-001
Multilux 180 DALI

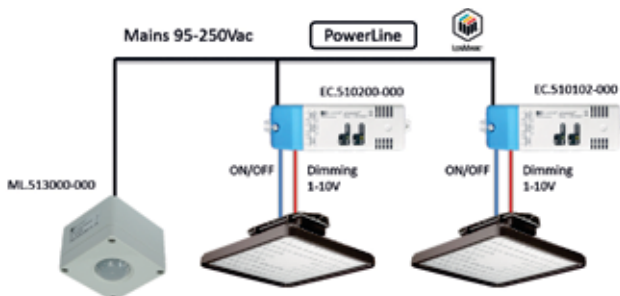
ML.62X000-001
Multilux 180 Lon TP/FT-10

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Multilux Bus Inputs / Outputs Diagram



PowerLine communication solution



DALI communication solution

LonMark Functional Profiles

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