

Sensors



e-Multisensor Bus

Automatic light dimming and switching



MS.622000-000
MS.512000-000

Energy saving in buildings

e-Multisensor Bus is an innovative multisensor including a high sensitivity motion detector and a light sensor for occupancy control and light level monitoring in a zone. A communication bus on the device allows transmitting the information to other devices on the network that actuate over the lighting components switching them on, off or dimming. A constant light controller is included on the device which is used to adjust light level according to the light setpoint configured and the combination of natural and artificial lighting. The motion sensor is used to automatically switch on and off the lights depending on the zone occupancy status, switching them off and saving energy when the zone is unoccupied.

Two different communication buses are available in two different reference products: LonWorks® twisted pair TP/FT-10 and LonWorks® PowerLine. This last model is using the mains electrical network as a transmission channel and is specially indicated for building refurbishment where no special cables are needed to install on the facility.

The device is designed for flush mounting on a suspended ceiling providing a wide coverage area of 36m², making it an ideal solution for loft offices.

Automatic light dimming and motion detection

Detection area 36m²

Up to 75% energy saving

Ultra Slim design for suspended ceiling facility

Motion sensitivity adjustable by network

LonWorks TP/FT-10 and PowerLine

DATASHEET

Energy Saving

- Light sensor for light dimming
- Motion sensor for automatic on/off switching
- Automatic light level control
- Up to 75% energy saving
- Constant light controller with two outputs for window and corridor lighting areas at the same time.
- Neighbor lighting control output.
- Minimum lighting value configurable.

Integration

- Providing EN15232 Class A
- ISO/IEC 14908 LonWorks® network
- LonMark® compatible
- Motion sensitivity adjustable by network
- In field sensor calibration with luxometer or by reflection index

LonMark Profiles

- 1 x Light Sensor
- 1 x Presence Detector
- 1 x Constant Light Controller
- 1 x Occupancy Controller
- 1 x Temperature Sensor



Installation

- TP/FT-10 with twisted pair bus
- PowerLine over mains electrical network
- No computer required for commissioning (PowerLine model)

Features

- Supply Voltage 24 Vac/24 Vdc (TP/FT-10) or 95-250Vac 50/60Hz
- TP/FT-10 or PowerLine channel
- ISO/IEC 14908 LonWorks® network
- Detection area 6x6mts (installed at 2,5mts ceiling)
- Max detection distance 8 meters
- 88 motion sensor detection zones
- Motion sensor coverage area 360°
- Lux range 0 to 1000 lux
- Light sensor measurement angle +/- 50°
- Light setpoint setting for automatic dimming
- Light sensor with visible color correction radiation filter
- Flush mounting in suspended ceiling
- Dimensions 80x50 (ØxH, mm)



Ordering numbers

MS.623000-000
e-Multisensor Bus Lon TP/FT-10

MS.513000-000
e-Multisensor Bus Lon PowerLine



AC.000001-000
Surface mounting enclosure



e-Multisensor Bus Lon PowerLine

Input / Output Diagrams

