

## LON Multi-Sensor LA-21

Art. No.: MTN880541

### Description



- combination of occupancy sensor and illumination sensor
- flush-mounting (surface-mounting in combination with Surface Mounting Box)
- circular sensor range with a diameter of approx. 14 m at 2.5 m mounting height
- detection range: 360 degrees
- dimensions of surface-mounted sensor: 105 x 42.6 mm (D x H)

### Function

Installed on the ceiling of a room, the Multi-Sensor registers the presence of persons within a certain detection area and simultaneously measures the intensity of the natural light.

The Multi-Sensor is used to control lighting, blinding, heating, ventilation and air-conditioning applications.

The integrated movement detector is based on the "Passive Infrared Method" (PIM).

It detects the difference of thermal radiation (infrared spectrum) of moving objects.

The size of the detection area depends on the room height, e. g. an installation height of 2.5 m results a detection area with a diameter of 14 m on the ground.

### Mounting

The Multi-sensor is for flush-mounted installations in interior rooms.

In combination with the Surface Mounting Box for Multi-Sensors it can also be mounted to ceilings which have not been suspended.

Usually the Multi-Sensor is fixed to a 60 mm flush-mounted box.

The base plate supplied with the Multi-Sensor is fixed with two screws to a 60 mm flush-mounted box or to the surface-mounted Surface Mounting Box for Multi-Sensors.

The Multi-Sensor is connected via a bus terminal clamp and clipped onto the base plate.

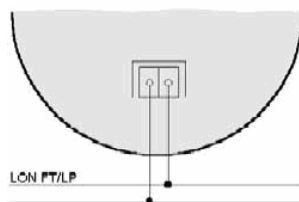
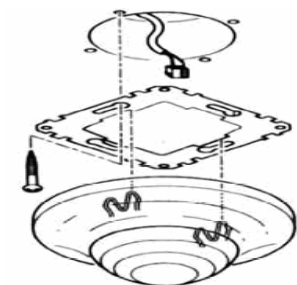
There is only the LON link power required to supply the device.

The network is connected via a 2-pole pluggable bus terminal included in delivery which allows up to 4 pairs of wires to be connected.

The terminal is suited for conductor cross-sections of 0.6 .. 0.8 mm<sup>2</sup>.

The Multi-Sensor propagates its Neuron-ID by pressing the service pin. The service LED indicates the programming state.

For the right operation of the device an appropriate application program is needed.



### Remarks

Installation and assembly of electrical devices may take place only by an electrical specialist. When planning and installing of an electrical system the relevant standards, guidelines and regulations of the respective country are to be considered. Beyond that the device specifications are to be kept. For project engineering, assembly

and line-up detailed expertise of the LonWorks technology is presupposed.

The function of the device is software dependent. Only application programs may be loaded, which are approved for this device.

The system integrator has to carry ensuring that the loaded application program and the configured parameters in it correspond with the outside wiring of the device. This applies in particular if for different use several application programs for a device are available.

### Technical Data

#### Power supply

Power consumption (max.): <= 285 mW (1 LPU) at DC 42.8 V network voltage

#### Network interface

Transceiver type: LON Link Power Transceiver (LPT-11)

#### Sensor Head

Measuring square: 360°  
Scope: Radius of max. 7 m at a mounting height of 2.50 m  
Number of zones: 136 with 544 Switch segments  
Brightness sensor: Direct from app. 10 .. 1,000 lux

#### Controls

Service pin: Propagates the Neuron ID

#### Indicators

Service LED (red): lit: network access error  
flashes: module unconfigured

#### Connections

Bus: 2-pole plug-in and branch terminal (Type: WAGO 243)

#### Housing

Protection class: IP20 (EN 60 529/IEC 144)  
Mounting: Screw mounting in a flush-mounted wall socket (60mm) or by a separate mounting socket(part-no. MTN550619)

Dimensions: Diameter: app. 100 mm  
Height from ceiling: app. 50 mm

#### EU Directive:

Low voltage guideline 2006/95EEC and EMC guideline 2004/108EEC