lumina MS3
Multisensor
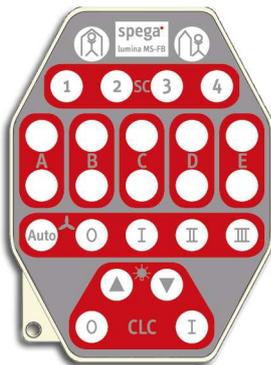Order No.: 911 103 C / 911 104 C

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Image

Product description

The LON multisensors lumina MS3-DE / lumina MS3-AP are a combination of occupancy sensors, light sensors and infrared receivers for hand-held transmitters.

The sensitive PIR sensor technology for occupancy detection guarantees reliable detection of the occupants even when they are seated. Multisensors are therefore ideally suited for occupancy-related control functions within LON networks.
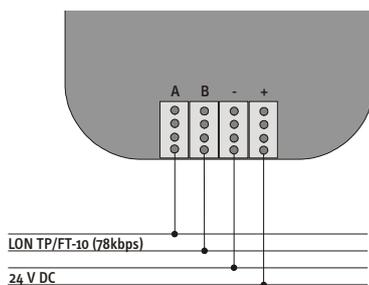
The light sensor also enables the takeover of automatic lighting functions, such as constant light control or an on/off function depending on the daylight.

A maximum of 5 lights or blinds can be operated and 4 scenes can be selected by means of the optional IR hand-held transmitter. Additionally, a fan stage can be selected manually.

The multisensors are suitable either for surface-mounting (type AP) or for installation in lowered ceilings (type DE) with the almost flush installation guaranteeing a particularly inconspicuous appearance.

For configuration purposes, a comfortable LNS plug-in is available.

Terminal diagram

LON TP/FT-10 (78kbps)

24 V DC

spega Order information

Order number	Description
911 103 C	*lumina MS3-DE* LON multisensor for ceiling installation
911 104 C	*lumina MS3-AP* LON multisensor for surface mounting
910 111	*lumina MS-FB* Hand-held remote control for multisensors

Assembly instructions

1 The device must be assembled in such a way that it allows easy recording of the measured values. It must be installed in the ceiling of a room, above the area where the occupants are likely to be.

2 *Ceiling installation*: A recessed ceiling socket is not required. The hole diameter for mounting the occupancy sensor is 65 mm. For installation in the ceiling, press together the two tension springs towards the top and insert the device into the ceiling.

3 *Surface mounting*: Remove circular cover ring by turning it approx. 5° in anticlockwise direction. Connect the device and secure to the ceiling with two screws (3.5 x 25mm).

4 The detection area is circular. The following table describes the detection area as a function of the installation height.

Installation height	When seated	When walking
2,0 m	4,0m Ø	8,0m Ø
2,5 m	5,0m Ø	10,0m Ø
3,0 m	6,0m Ø	12,0m Ø
3,5 m	- Ø	14,0m Ø
4,0 m	- Ø	16,0m Ø
4,5 m	- Ø	18,0m Ø
5,0 m	- Ø	20,0m Ø

⚠ **Electrical devices must be assembled and installed by trained personnel only.**

⚠ **Please observe local standards, guidelines and regulations when planning and installing electrical devices.**

⚠ **The device specifications given in this document must be adhered to.**

⚠ **Operation of the device is determined by the application program. Only programs which have been approved by spega should be used for the device.**

⚠ **The installer should ensure that the application program and relevant parameterisation correspond with the wiring and intended use of the device.**

Notes

Any parties responsible for project planning and commissioning must be familiar with LONWORKS® technology.

Operation

Commissioning:

Please note that for commissioning purposes, a service pushbutton and a service LED have been installed on the front end. The neuron ID is sent by pressing the button. A label with the neuron ID (in barcode and written form) is also stuck to the housing, allowing for separate localised connection.

To configure the sensors, use the relevant LNS plug-in (on the e.control CD or on the Internet under http://www.spega.com).

Technical data

Power supply
Operting voltage	24V AC / DC
Current input	typ. 30mA (720mW)
	max. 50mA (1200mW)

Network
Type of network	TP/FT-10 (78kbps)
Type of transceiver	FTT

Data acquisition
Presence	PIR-sensor with Fresnel lens for circular detection (see left)
Light	10 ... 1000 lux Daylight and artificial light
Infrared	IR-telegrams from optional IR tramsmitter: - 5 lights or sun blinds - 4 scenes - 1 fan (auto-0-I-II-III) - 1 presence (manual) max. distance 5m (without direct solar radiation)

Connections
Network	4-pin plug-in terminal connection for Ø 0,6 - 1,0mm (sol.), four bus lines can be connected for each pin

Housing
Type of protection	IP 20 (DIN 40050 / IEC 144)
Dimensions	*Type –DE (installation in ceiling)* 79 x 65 mm (Ø x H) Installation dimension: 64 x 51mm (Ø x D)
	Type –AP (installation on wall) 97 x 50 mm (Ø x H)
Type/location of installation	Installation in suspended ceiling or on wall

Ambient conditions
Operating temperature	-25℃ ... +60℃
Storage temperature	-25℃ ... +60℃
Transportation temperature	-25℃ ... +60℃
Rel. humidity	5% ...93% (without condensation)
Installation height	up to 2000 m above sea level

Standards/guidelines
Device safety	acc. to EN 50 090-2-2
Immunity	acc. to EN 50 090-2-2

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