MICROSENS

Data Sheet
Smart Sensor

Made in Germany

Smart Office READY

Description

As a member of the MICROSENS Smart Building Solutions family, the Smart Sensor delivers data on environmental information to a MICROSENS Smart Lighting Controller.

The MICROSENS Smart Sensor is designed to measure ambient light level, room temperature and humidity, as well as to detect the presence of persons. As a required component for MICROSENS Smart Office solutions the Smart Sensor is deployed to capture and provide actual value data via a Smart Lighting Controller to the MICROSENS Smart Director App. The Smart Director App is running on a MICROSENS G6 Switch.

Continuing their tradition of providing innovative products and solutions, MICROSENS introduces the second generation of the MICROSENS Smart Sensor now.

The Smart Sensor will be mounted in the ceiling in direct near to a LED lamp. The sensor data are indirectly transferred to the Smart Director via the Smart Lighting Controller of the respective LED Lamp.

Features

- Presence detection
- Measurement of ambient light level
- Measurement of temperature
- Measurement of humidity
- RGB LED to be used as indicator of sensor status
- Data interface to Smart Lighting Controller
- Powering through Smart Lighting Controller
- Plug and play

Specifications

Smart Lighting Sensor

- Capture of environmental data on
  - Presence
  - Ambient light level
  - Temperature
  - Humidity
- Direct transfer of captured data to MICROSENS Smart Light Controller

Connectors

- Connection to Smart Lighting Controller through fixed cable with RJ-45 connector

Power supply

- Supplied by Smart Light Controller

Mounting

- Snap-in-mounting

Technical Specifications

Measurement

Temperature	Metering range:	0..+60 C
	Accuracy	+/- 0,3 %
Humidity	Metering range:	10..80%, non-condensing
	Accuracy	+/- 2 %RH
Brightness	0 – 100 %, designed for Smart Director App	
Motion	Detection Range:	Ø 5 m @ 2,5 m mounting height

Connector to Smart Lighting Controller

Approved Controller	MICROSENS Smart Lighting Controller MS660102M
Connector type	Fixed twisted-Pair cable with RJ-45 connector, unshielded
Cable length	1 m, May not be extended

Power Supply

Source	MICROSENS Smart Lighting Controller
Power Consumption	minimum: 60 mW, maximum: 100 mW

Environmental Conditions

Temperature	Typical:	25 C
	Operation range:	0..+60 C
	Storage:	-20..+85 C
Humidity	10..80%, non-condensing	

Mechanical

Dimensions	60 x 55.3 mm (Diameter x heigth, without connectors)
Mounting hole	42 mm
Thickness of mounting surface	6 mm (min) – 25 mm (max)
Weight	Approx. 98 g
Protection Class	IP30

Standards

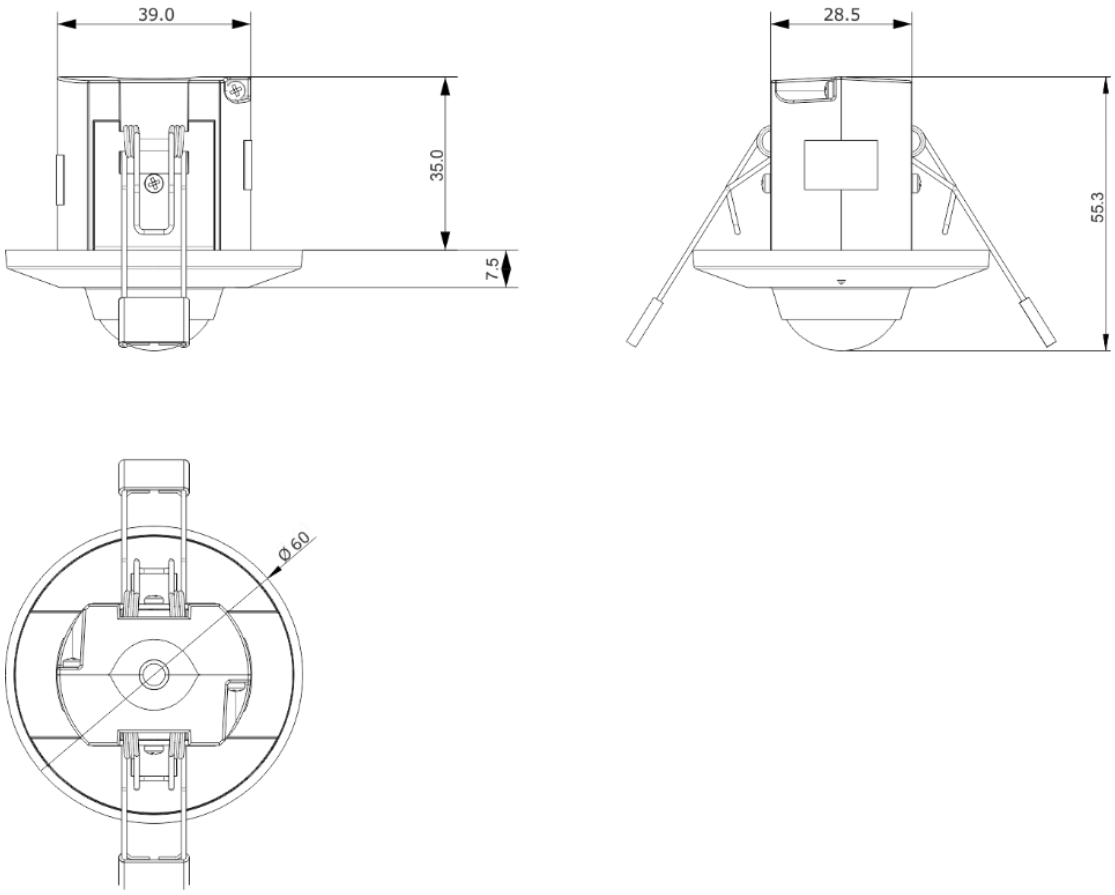
CE	2014/30/EU (EMC Directive 2011/65/EU (RoHS Directive)
REACH	1907/2006/EC
Safety	EN 60950-1
EMC Emission	EN 55015
EMC Immunity	EN 61547

Delivery / Contents

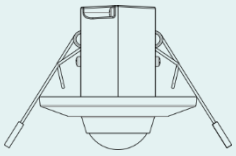
Standard Packaging

Package unit	1 pc.
Contents	1x Smart Sensor

Dimensions

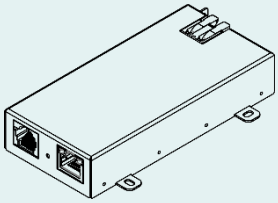


Ordering Information



Description	Article-No.
Smart Sensor Generation 2 (compatible with MICROSENS Smart Lighting Controller MS660102M)	
Smart Sensor Integrated sensor for presence detection, light level, temperature and humidity; cable l=1m, RJ-45 connector compatible with MS660102M (required)	**MS660202**

Accessories



Description	Article-No.
Smart Lighting Controller Generation 2 (compatible with MICROSENS Smart Sensor MS660202)	
Smart Lighting Controller Network powered controller for LED lighting Slim-Format, 1x RJ-45 jack for 10/100Base-TX, PoE+ PD input, max.30W, 1x RJ-45 jack for MICROSENS Smart Sensor MS660202, 1x Current Output for LED Light	**MS660102M**

Date of Issue: 2020-03-05/mg