MICROSENS

Microsens

**Product overview
Smart Building
Solutions**

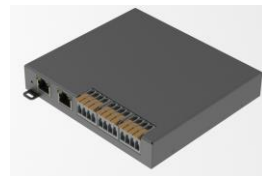# Smart Lighting

PoE Lighting System

AC Power
230V/2.000W

2.000W

Ethernet Switch
24 Ports
90W PoE each

30W

SLC-V2

1x
LED Luminaire
+ Smart Sensor

60W

SLC-V3

2x
LED Luminaire
+ Smart Sensor

90W

Twisted-Pair Cable
max. 100m
Data + Power

SLC-V4

6x
LED Luminaire
+ Smart Sensor
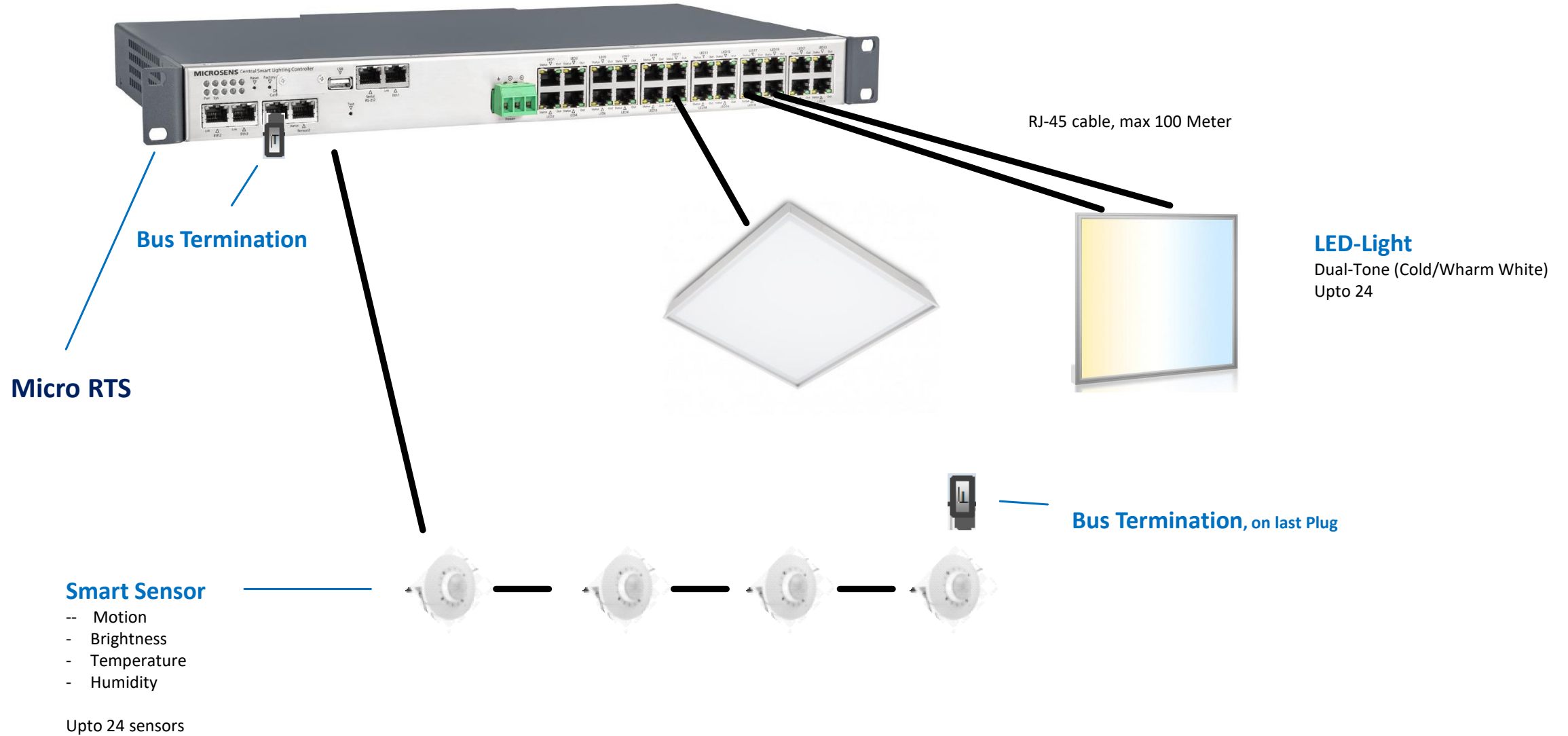
Smart Lighting Controllers

- Provides electrical power to a connected LED light via Power-over-Ethernet (POE+, upto 30W)
- Selectable dimming functions for brightness control through Smart Director
- Manual Dimming, setting of Dimming-Level
- Communicates with a connected sensor device
- Support MICROSENS Smart Sensor
- Measurement of LED power consumption
- **2 (60W) and 6 (90W) channel versions available**

Datasheets:

https://www.microsens.com/product/smart-lighting-controller-neurongrid

MS660104M

6 Channel Smart Lighting Controller max. 90 W

MS660103M

2 Channel Smart Lighting Controller max. 60 W

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DC-Lighting System

Bus Termination

Micro RTS

RJ-45 cable, max 100 Meter

LED-Light
Dual-Tone (Cold/Wharm White)
Upto 24

Bus Termination, on last Plug

Smart Sensor
-- Motion
- Brightness
- Temperature
- Humidity

Upto 24 sensors

Central Smart Lighting Controller

- 24 LED driver channels, max. 1000 W total output power per chassis
- Max. 1A@50V output current per channel
- Fully dimmable 0-100% per channel
- Integrated power monitoring per channel
- RJ-45 jack per channel for direct connection to structured cabling system
- Input: 54 VDC, max. 1100 W
- MQTT interface for monitoring and remote control
- RJ-45 jacks for connection of light level sensors

Datasheet:
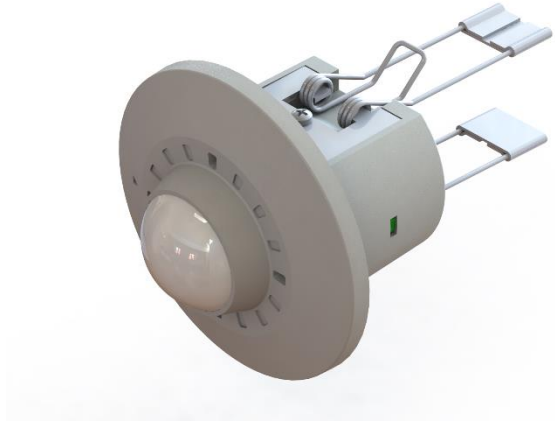
https://www.microsens.com/product/central-smart-lighting-controller

Smart Sensor for CSLC

- 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 MICROSENS Central Smart Lighting Controller

- Powering through MICROSENS Central Smart Lighting Controller

Smart Sensor

- 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
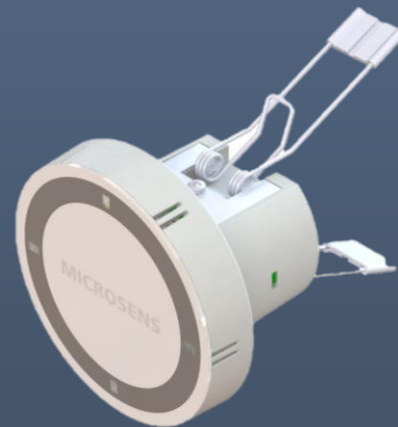- Plug and play

Smart Sensor RADAR

Smart Building System

Smart Sensor RADAR

Snap-In

improved springs

Made in Germany

NeuronGrid Sensor Bus

24   200 m

0 - 60 °C

3 m

Ø = 9 m

10.000 lux

10 - 80 %

Automation

Smart I/O Controller Digital & Analogue

- Smart I/O Controller for Digital and Analogue Signals
- 10x input,
- 4x output,
- 2x 24 VDC power out,
- 1x 10/100Base-T, RJ-45,
- 1x PoE+ (PD), 1x 24 VDC in
- MQTT integrated (publish & subscribe)
- Firmware interface to MICROSENS Smart Director App

Datasheet:

https://www.microsens.com/product/smart-io

Smart I/O Controller

- Smart I/O Controller for Digital Signals
- 10x digital input and 8x digital output ports
- 1x 24 VDC power output for sensor / actor supply
- MQTT integrated (publish & subscribe)
- Bivalent power input via PoE+ (PD) or external 24 VDC input
- Firmware interface to MICROSENS Smart Director App
- LEDs for input / output monitoring
- 1x Fast Ethernet network interface

Datasheet:

https://www.microsens.com/product/smart-io-digital

Lighting

Manual operation
- Dim level
- Color

Auto Dimming
- Daylight harvesting

Human Centric Lighting

Occupancy
- Room Timeout
- Minimum Brightness

Follow-Me Light
for corridors

Heating/Cooling

Valve Control
- Room Temperature
- Day/Night/Standby
- Dew Point Detection

Graphical Web Interface

[1] [2]
[3] [4]

- Global/per room
- Scenes/Direct operation
- Statistics
- Easy customizable

Smart Director App

v100

My Office   MICROSENS

| Off | Auto | Dim | Max |
| Meeting | Presentation | Demos | Emergency |

Message
Scene Max (4) activated.

Blinds

- Manual Up/Down/Tilt
- Scene controlled

Switched Outlets

I
O

- Manual operation
- Scene controlled
- via Occupancy
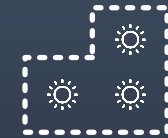
Smart Devices

64

Sensor Values

500

LED Lights

250

Light Zones

12

Rooms

12

Satisfaction

100%

Smart Building Manager (BMS)

Smart Building Manager

Smart Building Manager

- Pricing depends on number of Datapoints, features and size of building. Price in quote is estimated price for complete building + yearly software update.

Features may include:

- Global facility management for comfort hotel guests and staff;
- Optimizing the work of installed devices;
- control of hotel rooms,
- Lighting control in hotel corridors;
- Control of thermal comfort and lighting in common areas;
- Information management from the PMS hotel system through the FIAS protocol;
- Ongoing tracking of all systems integrated into the BMS system and visualizing their condition;
- Monitoring of electrical installations;
- Monitoring of pumps, separators and pressure booster systems;
- Monitoring and control of air handling units
- Monitoring and control of VRV and SPLIT air conditioning devices
- Monitoring the parameters of lifts;
- Monitoring of the fire protection system

Artur Wojdan

Head of Project Management - Smart Building Solutions

THANK YOU!

awojdan@microsens.pl

MICROSENS GmbH & Co. KG

Wrocław, Poland