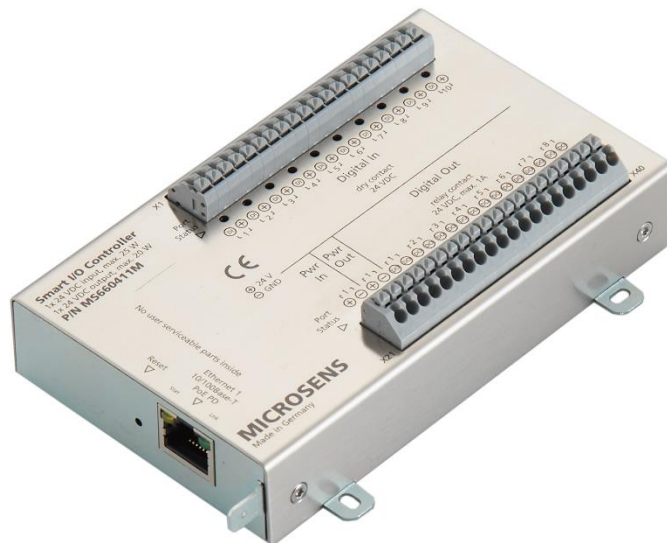


Data Sheet

Smart I/O Controller for digital signals



Description

The MICROSENS Smart I/O Controller is designed to both collect sensor signals as well to drive and control automation actors. Typical areas of application are intelligent control and automation of electrical devices and actors for building automation.

Multiple Smart I/O Controllers are managed by the MICROSENS Smart Director App which is running on a MICROSENS G6 device. The sensor data are transferred via the network from the Smart I/O Controller to the Smart Director App which again sends control data to the Smart I/O Controllers output ports.

The Smart I/O Controller provides input and output ports for digital signals.

As a member of the MICROSENS Smart Building Solutions Family, the Smart I/O Controller is an IP networking device which is supplied through the IT network with Power-over-Ethernet voltage (PoE+).

Features

- 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

Technical Specifications

Type	Smart I/O Controller for digital signals
Device Interfaces	
- Digital Input Ports	10x, opto coupler, max. 24mA @ 24 VDC
- Digital Output Ports	8x, relay 24 VDC / VAC, max. 60W combined maximum current: 1A
- Input / Output Connectors	2x 20 pin push clamp; wire diameter 0.1..1.5 mm ² , stranded/solid
- Power output	1x 24 VDC, maximum load: 20 W
- Ethernet Uplink port	1x 10/100Base-T, RJ-45, PoE (PD)
- Reset button	Short press (approx. 2 sec) = Reset Long press (approx. >2 sec) = Update mode; if no update file is received within 20 seconds device starts normally
Display	1x LED per digital port, green; 1x LED per power port, green
- Digital In	ON: input contact closed, OFF: input open
- Digital Out	ON: output active (OC pulls low), OFF: output inactive
- Power In	ON: external powered, OFF: PoE (PD) powered
- Power Out	ON: power output active, OFF: power output inactive
Standards	IEEE 802.3i/u, IEEE 802.3at (PoE+ (PD)) EMC Directive: 2014/35/EU RoHS Directive: 2011/65/EU REACH: 1907/2006/EC EMC Emission EN 55032 EMC Immunity EN 55024
Bivalent Power Supply	24 VDC (external) / 54 VDC PoE PD (via Network)
- Internal consumption	up to 1.2 W (external) / up to 3.2 W (PoE)
Network Management	IPv6
Operating Temperature	0 to +50°C
Storage Temperature	-20 to +85°C
Operation Humidity	10 to 85 % (non-condensing)
Dimensions (L x W x H)	Housing body: 127 x 76 x 24 mm Overall incl. clamps and mounting tabs: 137 x 92 x 34 mm
Weight	approx. 500 g

Ordering Information



Description

Art.-No.

Smart I/O Controller for digital signals

Smart I/O Controller for Digital Signals
10x input, 8x output, 1x 24 VDC power out,
1x 10/100Base-T, RJ-45, 1x PoE+ (PD), 1x 24 VDC in

MS660411M

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