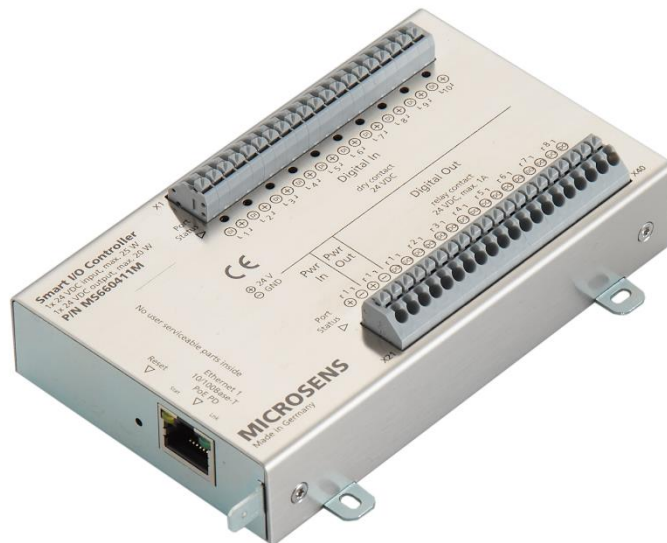


Data Sheet

Smart I/O Controller for digital signals



Best.nr: 20103959

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	
<ul style="list-style-type: none"> - Digital Input Ports - Digital Output Ports - Input / Output Connectors - Power output - Ethernet Uplink port - Reset button 	10x, opto coupler, max. 24 V 8x, relay 24 V combined maximum current: 1A 2x 20 pin push clamp; wire diameter 0.1..1.5 mm ² , stranded/solid 1x 24 VDC, maximum load: 20 W 1x 10/100Base-T, RJ-45, PoE (PD) 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	
<ul style="list-style-type: none"> - Digital In - Digital Out - Power In - Power Out 	1x LED per digital port, green; 1x LED per power port, green ON: input contact closed, OFF: input open ON: output active (OC pulls low), OFF: output inactive ON: external powered, OFF: PoE (PD) powered 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	
<ul style="list-style-type: none"> - Internal consumption 	24 VDC (external) / 54 VDC PoE PD (via Network) up to 1.2 W (external) / up to 3.2 W (PoE)
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	20103959

