

CANopen Industrial I/O Modules >

CANopen Industrial I/O Modules are robust and durable IP67-rated input/output (I/O) modules designed for connecting industrial controllers and devices in harsh-duty environments to enable fast and versatile automation of industrial networks that use the CANopen protocol.



ADVANTAGES AND FEATURES

Is resistant to vibration and dust

Resin potting seals cables against environmental ingress for on-machine mounting.

Provides flexibility to configure module for multiple applications

Users can choose between fixed and configurable digital I/O channels, with various input and output combinations available, to improve versatility and reduce costs.

Reduces installation time with M12 Ultra-Lock push-to-lock connectors

Fast and secure Ultra-Lock connectors enable quick changeovers, with threaded M8 connectors also available for greater flexibility.

Accelerates time to market with off-the-shelf options

Delivery is available in six to eight weeks.

Protocol	CANopen
Ingress Protection	IP67 rated
Mounting	On machine
Form Factor	Compact (30.00mm)
Connector Types	5-pole M12 Ultra-Lock, 3-pole M8
Operating Temperatures	-25 to +70°C

Communicates module and network status quickly through diagnostics LEDs

Diagnostic capabilities via fieldbus messaging integrated into the module website combine with visible diagnostic LEDs to report I/O, module and network status. This enables maintenance personnel to easily identify problems quickly and minimize downtime.



MARKETS AND APPLICATIONS

Industrial Automation

- Automotive assembly lines
- CNC machines
- Complex factory automation devices
- Conveyors
- Material handling devices
- Robotic cells
- Warehouse automation systems



Automotive Assembly Lines



Conveyors

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SPECIFICATIONS

Reference Information

Part Numbers: 1120985007, 1120985008

Packing: Carton

Designed in: Millimeters

CANopen Certification: Yes

RoHS: Yes

CE: Yes

REACH: Yes

cUL: Yes

EMC: IEC 61000-6-2

I/O Configurations:

8x inputs

8x I/O user configurable using ESD file

Connectors

I/O Connectors: Female, M8, 3 pole

Bus In: Male, M12, A-code, 5 pole

Bus Out: Female, M12, A-code, 5 pole

Power Connectors: No (power supply via CAN bus)

Physical

Dimensions: 175.00 by 30.00 by 20.00mm

(6.89" by 1.18" by 0.78")

Housing: IP67-rated according to IEC 60529

Housing Material: PBT VALOX 420 SEO

Operating Temperatures: -25 to +70°C

Storage Temperatures: -25 to +85°C

Relative Humidity: 10 to 95%, non-condensing

Input

Input Type: Compatible with dry contact, PNP or NPN, 2/3-wire sensors

Diagnostic LEDs: Yes

Electronic Short Circuit Protection: Yes

Input Delay: 2.5 milliseconds default or configurable through CANopen object parameter

Input Device Supply: 200mA per port at 25°C

Output

Output Load Current (max.): 2.0A per channel, 4.0A per module

Switching Frequency (max.): 300 Hz

Fieldbus

CANopen Slave, DS401 Profile

I/O Data Access Method: Synchronous acyclic, synchronous (sync) and asynchronous

Communication

Communication Rate: Auto baud, all CAN baud rates up to 1M baud

Address Settings: 1 to 99 by 2 rotary switches

Shock and Vibration

Mechanical Shock: 10G, 11 milliseconds, 3 axes

Vibration: EN 60068-2-6