

# 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

# CANopen Industrial I/O Modules

## 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