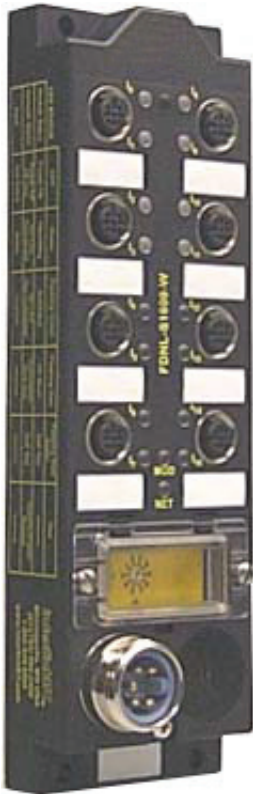# FDNL-CSG88-W

This station provides 8 inputs and 8 outputs. The input and output circuits are combined in one connector. The unit is specifically designed to work I/O devices that have both an input and output. Examples include part verification arrays and push buttons. The station also accepts 3-wire PNP sensors or simple outputs alone.

Each *eurofast* ® connector provides V+, V-, Input, and Output. The V+ provides power to the attached sensor, is short-circuit protected and monitored as a group. The V- is the sensor and output ground. The input will work with a PNP type sensor or dry contact. The outputs are short-circuit protected, but monitored as a group.

Each connector has both input LED and output LED associated with it. The LED turns green if the I/O point is on. Inputs are monitored for short-circuit protection as a group.

The node address can be set using the rotary switches located under the cover or through software. The unit automatically detects the communication rate.

Polled, change of state, and cyclic I/O messages are supported.

Recommended Cordsets:
Bus line: RSM RKM 579-*M
Inputs: VB2-RS 4.4T-*/2RK 4.4T-*/*/S651 or RK 4.4T-*-RS4.4T
Bus T: RSM 2RKM 57/C1125

FDNL-CSG88-W

- Advanced DeviceNet™ station
- 8 combined input and output points

Applications

- For use with pushbuttons
- For use with 3-wire sensors
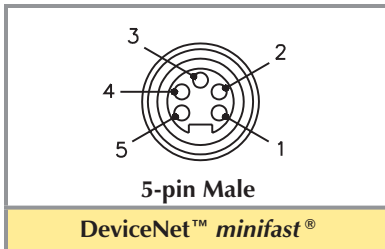- For use with discrete actuators

Features

- PNP short-circuit protected inputs
- 0.5 amp short-circuit protected outputs
- Rotary address switches
- Automatic detection of network communication rate
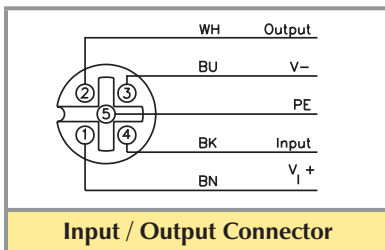
Dimensions

FDNL-CSG88-W

Connectors

5-pin Male

DeviceNet™ *minifast*®
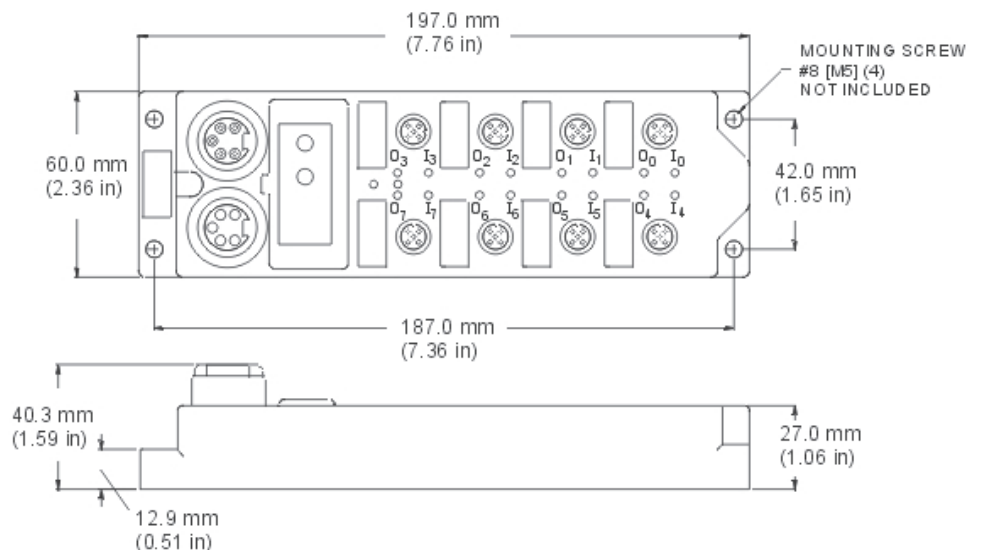
1 = Shield
2 = V +
3 = V −
4 = CAN_H
5 = CAN_L

Input / Output Connector

I/O Data Mapping

Item Number F0128
Product Type / Code: 7/2049

	Byte	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
Input Data	0	I-7	I-6	I-5	I-4	I-3	I-2	I-1	I-0
	1	IGS	OGS	-	-	-	-	-	-
Output Data	Byte	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
	0	O-7	O-6	O-5	O-4	O-3	O-2	O-1	O-0

Abbreviations

I = Input Data (0=OFF, 1=ON)
IGS = Input Group Status (0=Working, 1=Fault)
O = OutputData (0=OFF, 1=ON)
OGS = Output Group Status (0=Working, 1=Fault)

Module Specifications

Supply Voltage

Bus Power	11-26 VDC, powers communication, inputs and outputs
Internal Current Consumption	<100 mA plus sum of sensor and output currents

Input Circuits

(8) PNP 3-wire sensors or dry contacts

Input Voltage (V+)	13-26 VDC (from bus power)
Input Short-Circuit (V+)	700 mA - 2.0A (total)
Input Signal Current (I)	OFF <2 mA
	ON 3.0-3.4 mA at 24 VDC
Input Delay	2.5 ms

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FDNL-CSG88-W

Output Circuits	(8) DC actuators or indicators
Output Voltage	18-26 VDC (from bus power)
Output Load Current	0.5 A per output (from bus power)
Maximum Switching Frequency	100 Hz

I/O LED Indications

Off = Not active
Green = Active

Module Status LED

Off = Power off
Green = Operating
Flashing Green = Autobaud
Flashing Red = I/O short

Network Status LED

Off = No connection
Green = Established connection
Flashing green = Ready for connection
Flashing red = Connection time-out
Red = Connection not possible

Address	via rotary switch
	0-63
	Address from internal EEPROM (rotary switch must be in PGM position)
Housing	197 x 60 x 40 (H x W x D)
Material	Glass-filled nylon, nickel plated brass connectors
Mounting	4 through-holes, 5.3 mm diameter
Enclosure	NEMA 1, 3, 4, 6, 6P, 12, 13 and IEC IP 67, 68, and 69K
Operating Temperature	-40° to +70°C (-40° to 158° F)