

FDNL-CPG88-T-V



This station provides eight inputs and eight 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.

Each connector has both input LED and output LED associated with it. The LED turns green if the I/O point is on. The LED turns red if the I/O point is shorted. The input LED turns amber if an open circuit between V+ and V- is detected. The output LED turns amber if there is open circuit between Output and V-. Open circuit detection must be enabled using a software configuration tool.

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

The FDNL-CPG88-T-V supports explicit messaging, poll, change of state, and cyclic I/O messages. These connections are established through UCMM or predefined master/slave connection set.

Dimensions

FDNL-CPG88-T-V

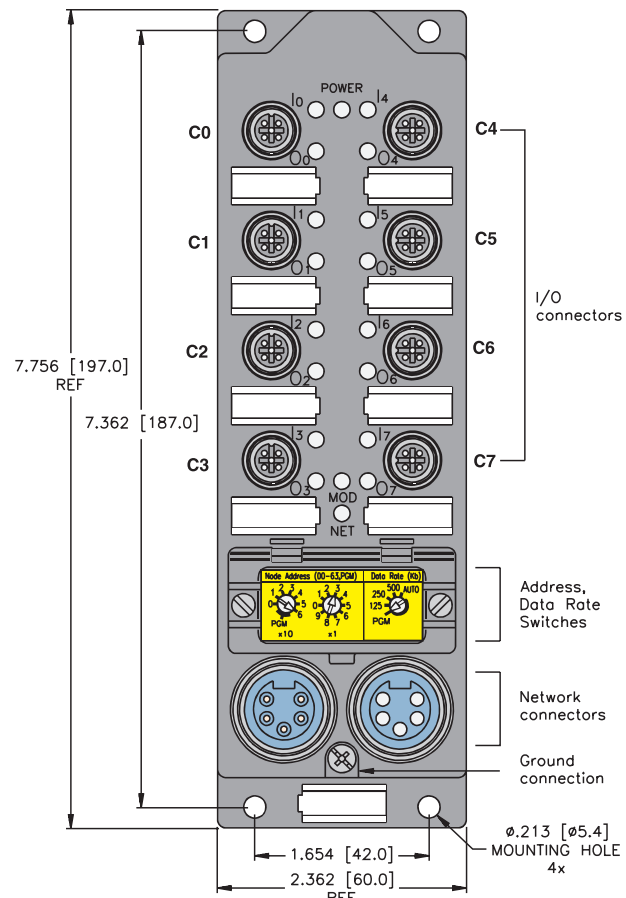
- Advanced DeviceNet™ Station
- Eight Combined Input and Output Points

Applications

- For Wet or Dry Environments
- For Use With Part Verification Arrays, Three-Wire sensors, or Discrete Actuators

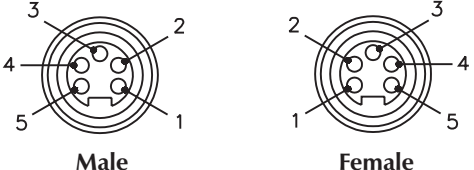
Features

- PNP Short-Circuit Protected Inputs with Open-Circuit Protection
- 0.5 Amp Short-Circuit Protected Outputs with Open-Circuit Protection
- Rotary Address Switches

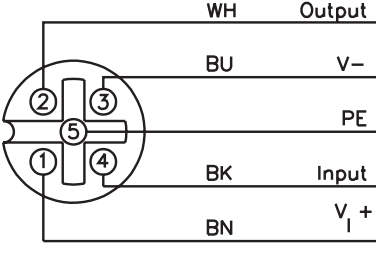


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Connectors

DeviceNet™ Style: 5-Pin <i>minifast</i> ® Cordset: Bus Line use RSM RKM 579-*M Tee: Bus Line use RSM 2RKM 57	1 = Shield 2 = V + 3 = V - 4 = CAN_H 5 = CAN_L	
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Combined Input/Output Connectors

Type 'C' Style: 5-Pin <i>eurofast</i> ® Cordset: Single Sensors, Outputs or Push Buttons use RK 4.4T-*RS 4.4T Splitter: Part Verification Array use VB2-RK 4.4T 1/2RK 4.4T-*/S651	1 = V+ 2 = Output Signal 3 = GND 4 = Input Signal 5 = PE	
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I/O Data Mapping

Item Number: F2014
Product Code: 7/1329 (531 hex)

	Byte	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
Input Data Output Data	0	I-7	I-6	I-5	I-4	I-3	I-2	I-1	I-0
	1	ISS-7	ISS-6	ISS-5	ISS-4	ISS-3	ISS-2	ISS-1	ISS-0
	2	IOS-7	IOS-6	IOS-5	IOS-4	IOS-3	IOS-2	IOS-1	IOS-0
	3	OS-7	OS-6	OS-5	OS-4	OS-3	OS-2	OS-1	OS-0
	4		APS						
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)

O = Output Data (0=OFF, 1=ON)

ISS = Input short Status (0=Working, 1=Fault)

OS = Output Status (0=Working, 1=Fault)

IOS = Input Open Status (0=Working, 1=Fault)

OGS = Output Group Status (0=Working, 1=Fault)

IGS = Input Group Status (0=Working, 1=Fault)

APS = Aux Power Status (0=OFF, 1=ON)

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Module Specifications

**Eight Combined PNP Inputs and
0.5A Outputs, Per Point Diagnostic**

Supply Voltage

Bus Power	11-26 VDC
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+)	11-26 VDC
Open Circuit Current (V+)	<1 mA
Sensor current (V+)	<120 mA Per Input, Short-Circuit Protected
Input Signal Current (Input Signal)	OFF <2 mA ON 3.0-3.4 mA at 24 VDC
Maximum Switching Frequency	100 Hz

Output Circuits

(8) DC Actuators or Indicators

Output Voltage	18-26 VDC Optically Isolated
Output Load Current	0.5 A Per Output
Open Circuit Current	<1 mA Per Output
Maximum Switching Frequency	100 Hz

I/O LED Indications

Amber = Open-Circuit
Off = Off
Green = On
Red = Short-Circuit

Module Status LED

Green = Working Properly
Flashing Green = Detecting Autobaud Rate
Flashing Red = I/O Short-Circuit

Network Status LED

Green = Established Connection
Flashing Green = Ready For Connection
Flashing Red = Connection Time-Out
Red = Connection Not Possible

Adjustments

Via Rotary Switch

Address	0-63 Via Rotary Switch
Communication Rate	Auto/125k/250k/500k

Housing

Material	Glass Filled Nylon with Stainless Steel Connectors
Enclosure	NEMA 1, 3, 4, 12, 14 and IEC IP 67
Operating Temperature	-25° to 70°C (-13° to 158° F)