FDNL-CPG88-T

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 ouput LED associated with it. The LED turns green if the I/O point is on. The LED turns red if the I/O point isshorted. 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 supports explicit messaging, poll, change of state, and cyclic I/O messages. These connections are established through UCMM or predefined master/slave connection set.

FDNL-CPG88-T

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

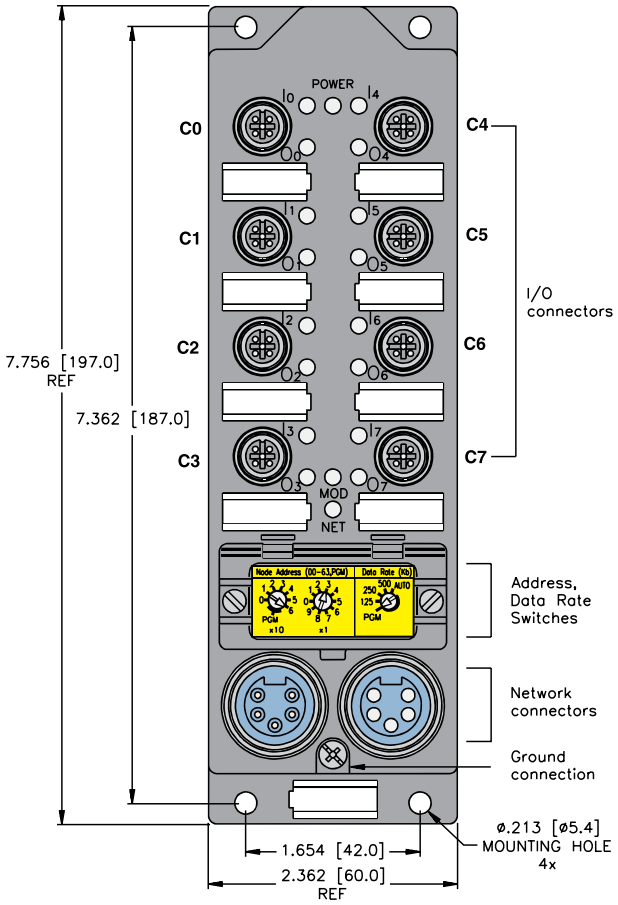
Applications

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

Features

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

Dimensions



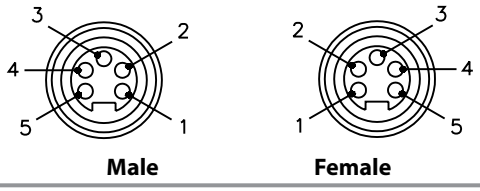
FDNL-CPG88-T

Connectors

DeviceNet™

Style: 5-Pin ***minifast***®
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



Male **Female**

Through Bus

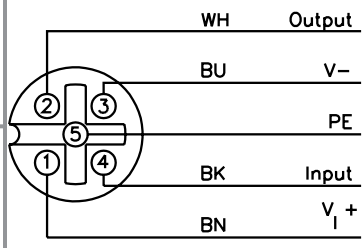
Combined Input/Output Connectors

Style: 5-Pin ***eurofast***®

Cordset: RK 4.4T-*-RS 4.4T

Splitter: Part Verification Array use VB2-RS 4.4T -*/2RK 4.4T-*/*

1 = V+
2 = Output
3 = V -
4 = Input
5 = PE



Input/Output Connectors

I/O Data Mapping

Item Number: F0083
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)

FDNL-CPG88-T

Module Specifications

Eight Combinted 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+)	<80 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)