FDNP-CSG88-TT



FDNP-CSG88-TT

- Advanced DeviceNet[™] station
- Eight combined input and output points

Applications

- For use with part verification arrays and push buttons
- For use with 3-wire sensors
- Use with discrete actuators

Features

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

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 individually, 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. Outputs are monitored for short-circuit protection as a group. If any input is shorted, the entire group of inputs is disconnected from bus power.

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Because the inputs and outputs are powered off the same circuit, this station is not recommended for E-Stop outputs.

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 FDNP-CSG88-TT supports explicit messaging, poll, change of state, and cyclic I/O messages. These connections are established through UCMM or predefined master/slave connection set.

Recommended Cordsets: Auxiliary Power: RSM RKM 46-*M or RSM RKM 40-*M Inputs/Outputs: VB2-RS 4.4T- */2RK 4T -*/* or VBRS 4.4-2RK 4T-*/*

Dimensions



www.turck.us • Application Support: 1-800-544-7769 • TURCK Inc. Minneapolis, MN 55441 10240234 Rev 1

FDNP-CSG88-TT

Connectors





I/O Data Mapping Item Number F0148 Product Type / Code: 7/2369

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

Abbreviations

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

Module Specifications

Supply Voltage

Bus Power	11-26 VDC, powers communication						
Internal Current Consumption	≤75 mA (from bus power)						
Auxiliary Power	18-26 VDC, optically-isolated, powers all I/O						
Input Circuits	(8) PNP 3-wire sensors or dry contacts						
Input Voltage	13-26 VDC (from auxiliary power)						
Input Short-Circuit	<700 mA (total, short-circuit protected)						
Input Signal Current (Input)	OFF <2 mA ON 2.5-3.2 mA at 24 VDC						
Input Delay	2.5 ms						
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Output Currents	(8) DC actuators						
Output Voltage	18-26 VDC (from auxiliary power)						
Output Load Current	0.5 A per output (from auxiliary 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						
Auxiliary Power Status LED							
	Off = Power off						
	Green = Power on						
Adjustments							
Address	0-63 via rotary switch						
Housing	220 x 60 x 40 (H x W x D)						
Material	Glass filled hylen with hickel plated brass connectors						
Mounting	Glass filled nylon with nickel plated brass connectors						
Enclosure	4 through-holes, 5.3 diameter NEMA 1, 3, 4, 6, 6P, 12, 13 and IP67, IP68, and IP69k						
Operating Temperature	-40° to 70°C (-40° to 158° F)						
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