

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.

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-\*/\*

#### FDNP-CSG88-TT

- Advanced DeviceNet<sup>™</sup> station
- · Eight combined input and output points

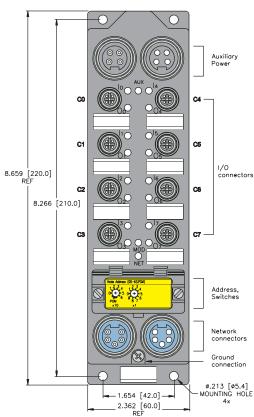
### **Applications**

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

#### **Features**

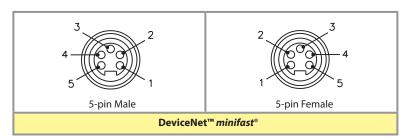
- PNP short-circuit protected inputs 0.5 amp short-circuit protected outputs
- Automatic detection of network communication rate
- · Rotary address switches

### **Dimensions**

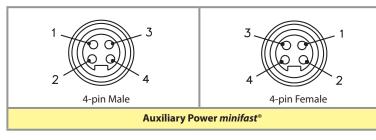




# **Connectors**



1 = Shield 2 = V + 3 = V -4 = CAN\_H 5 = CAN\_L



 $1 = V_{AUX} +$  2 = Pass thru 3 = Pass thru  $4 = V_{AUX} -$ 

	WH	Output					
	BU	V					
2 3		PE					
(P) (P)	ВК	Input					
	BN	V <sub>I</sub> +					
Input Connector							

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-O
	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	O-5	0-4	O-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**

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

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 H

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 nylon with nickel plated brass connectors

Mounting 4 through-holes, 5.3 diameter

Enclosure NEMA 1, 3, 4, 6, 6P, 12, 13 and IP67, IP68, and IP69k

Operating Temperature -40° to 70°C (-40° to 158° F)