FDN20-4S-4XSG

The station provides a connection for 8 I/O points. The first 4 points can be either inputs or outputs. The other 4 points are inputs only. All inputs and outputs are powered by DeviceNet™. This is ideal for small systems that don't require auxiliary power.

To use an I/O point as an input, simply leave the corresponding output OFF. To use an I/O point as an output, simply turn on the corresponding output bit. The output will switch on high. Note that this will in turn cause the corresponding input bit to turn on. If the corresponding input does not turn on, the output is shorted.

The FDN20-4S-4XSG supports explicit messaging, poll, change of state, and cyclic I/O messages. These connections are established through UCMM or predefined master/slave connection set.

FDN20-4S-4XSG

Integrated Design
- Extremely flexible DeviceNet station
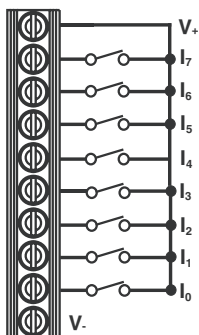- Four inputs and four inputs/outputs

Application
- For operator stations
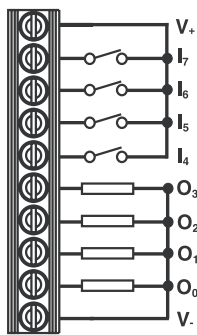- For use with PNP Sensors or 0.5 Amp outputs

Features
- PNP short-circuit protected inputs
- 0.5 Amp short-circuit protected outputs]
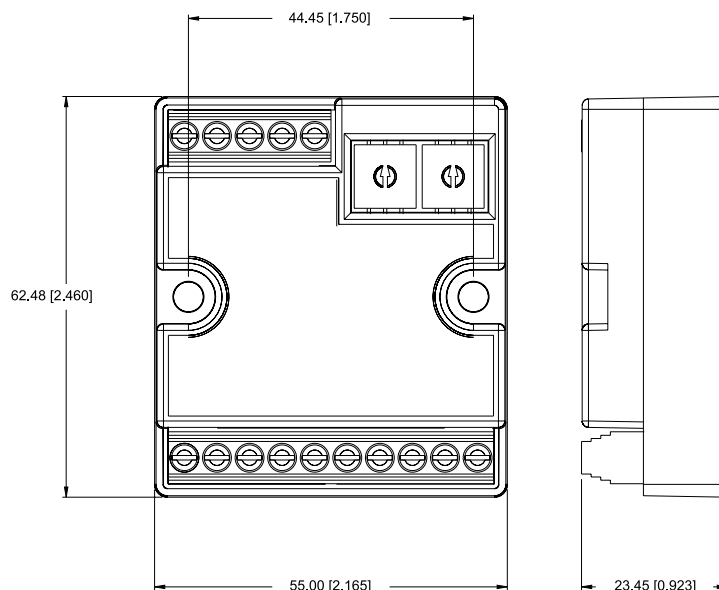- All of the I/O is powered by DeviceNet

Dimensions

44.45 [1.750]

62.48 [2.460]

55.00 [2.165]

23.45 [0.923]

Terminal Wiring

To connect as inputs

To connect as outputs
(I/O points 0-3 shown as outputs)

FDN20-4S-4XSG

Module Specifications

Supply Voltage

Bus Power	11-26 VDC
Internal Current Consumption	≤75 mA plus sum of sensor and output currents (from bus power)

Input Circuits

	(4-8) PNP 3-wire sensors or dry contacts
Input Voltage (V+)	18-26 VDC (from bus power)
Input Short-Circuit (V+)	<700 mA (total, short-circuit protected)
Input Signal Current (Input)	OFF 0-4 V, 0-0.5 mA
	ON 8-24 VDC, 1-3.4 mA
Input Delay	2.5 ms

Output Circuits

	(4) DC Actuators
Output Voltage	18-26 VDC (from bus power)
Output Load Current	0.5 Amps each (from bus power)
Maximum Switching Frequency	100 Hz

Rotary Switch

	0-63: Address from switch
	64-79: Address from EEPROM
	80-99: Reserved

Network Status LED

	Green: Established Connection
	Flashing Green: Ready for Connection
	Flashing Red: Connecton Time-Out
	Red: Connection Not Possible

Housing

Material	Nylon
Enclosure	IP 20
Operating Temperature	-40° to +70°C (-40° to +158°F)

I/O Data Mapping

Product Type/Code: 7/2833

	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	-	-	-	-	-	-
	Byte	**Bit 7**	**Bit 6**	**Bit 5**	**Bit 4**	**Bit 3**	**Bit 2**	**Bit 1**	**Bit 0**
Output Data	0	-	-	-	-	O-3	O-2	O-1	O-0

Abbreviations

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