FDN20-16XSG

This station provides a connection for 16 I/O points. All pointa can be either inputs or outputs. All inputs and outputa are isolated from DeviceNet. To use an I/O point as an input, simply leave the corresponding output bit 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 FND20-16XSG supports explicit messaging, poll, change of state, and cyclic I/O messages. These connections are established through UCMM or predefined master/slave connection set.

Integrated Design:

- Extremely Flexible DeviceNet™ Station
- Sixteen Inputs/Outputs

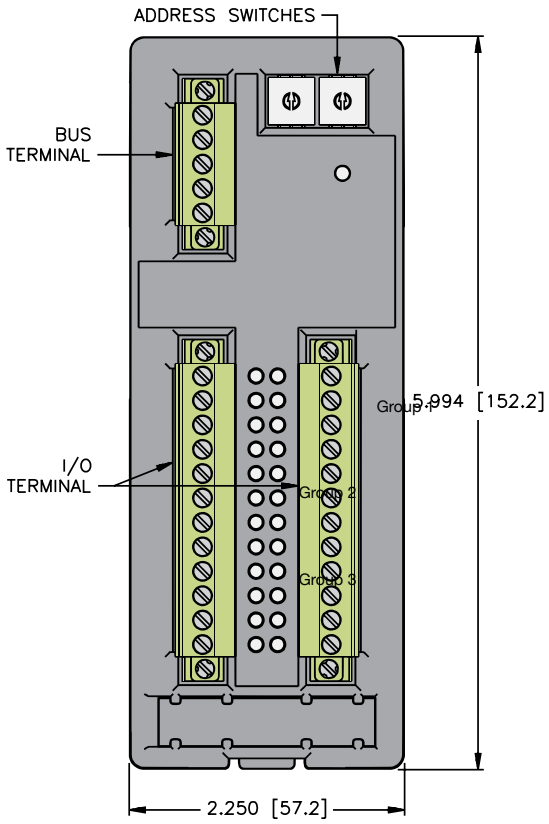
Application:

- For Use with 0.5 Amp Outputs
- For Use with PNP Sensors

Features:

- Short-Circuit Protected Outputs
- All of the I/O is Isolated from DeviceNet
- All of the I/O may be powered by DeviceNet

Dimensions:



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	16 PNP 3-wire sensors or dry contacts
Input Voltage (V+)	11–26 VDC (From Bus Power)
Input Short-Circuit (V+)	<700 mA (Total, Short-Circuit Protected)
Input Signal State	OFF 0–4 V, 0–0.5 mA ON 8–24 VDC, 1–3.4 mA
Input Delay	1 ms
Output Circuits	(16) DC Actuators
Output Voltage	18–26 VDC (From Aux Power)
Output Load Current	0.5 Amps Each (From Aux Power) 6.4 A total current
Maximum Switching Frequency	100 Hz
Address Switch	
	0-63: Address from switches 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
Flashing Amber:	Detecting Baud Rate
Housing	
Material	Nylon
Enclosure	IP 20
Operating Temperature	-40° to +70°C (-40° to +158°F)
Relative Humidity	Non-condensing

I/O Data Mapping:

Product Type/Code:

	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	I-15	I-14	I-13	I-12	I-11	I-10	I-9	I-8
	2	IGS	OGS	-	-	-	-	-	-
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
	1	O-15	O-14	O-13	O-12	O-11	O-10	O-9	O-8

Abbreviations:

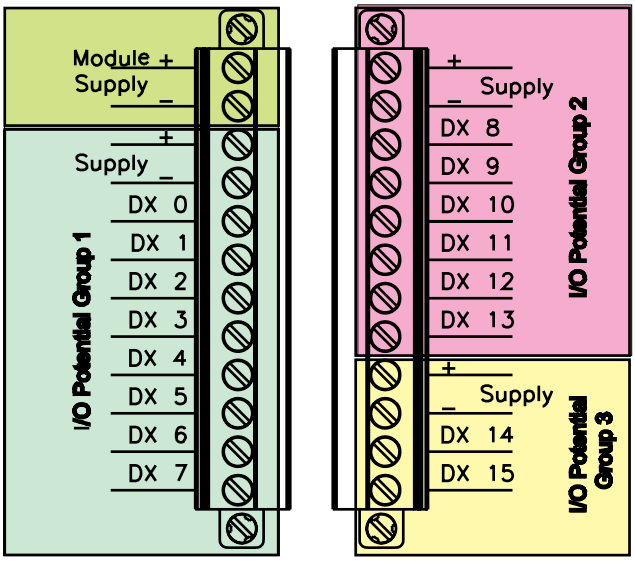
I = Input Data (0 = OFF, 1 = ON)

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

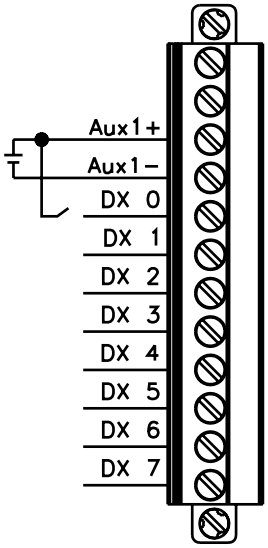
IGS = Input Group Status (0 = Working, 1 = Fault)

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

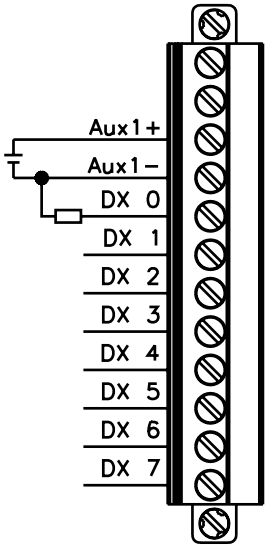
I/O Connections



Wiring as an input



Wiring as an output



Example of how to supply I/O points via DeviceNet power