

FDN20-4S-4XSG-DIN/C1261



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-DIN/C1261 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-DIN/C1261

Integrated Design

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

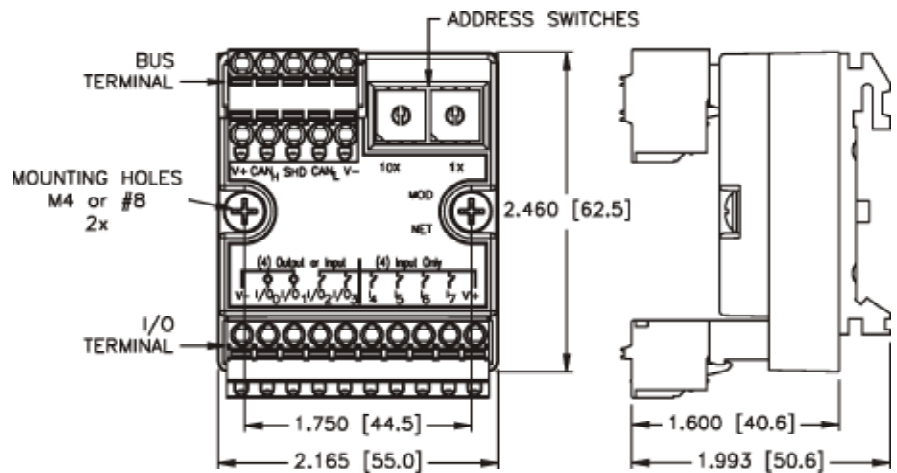
Application

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

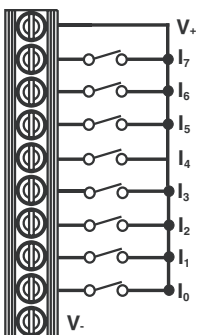
Features

- PNP short-circuit protected inputs
- 0.5 Amp short-circuit protected outputs
- Removable terminal blocks

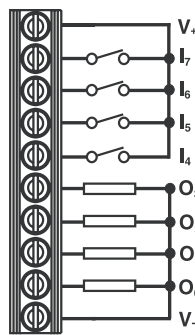
Dimensions



Terminal Wiring



To connect as inputs



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

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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 | <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 with Aluminum DIN Bracket |
| Enclosure | IP 20 |
| Operating Temperature | -40° to +70°C (-40° to +158°F) |

I/O Data Mapping

Product Type/Code: 2012

| | 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 | - | - | - | - | - | - |
| Output Data | Byte | Bit 7 | Bit 6 | Bit 5 | Bit 4 | Bit 3 | Bit 2 | Bit 1 | Bit 0 |
| | 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)