FDNL-S0808I-MM

This station provides eight inputs and eight outputs. There are four dual input connectors on the left and four dual output connectors on the right. This unit is specifically designed to work with electric power and pin clamps. All inputs are powered by bus power. All outputs are powered by the auxiliary power.

Each input connector provides V+, V-, Input A, and Input B. The V+ provides power to the attached sensor. The V+ is short-circuit protected and monitored as a group. Input A is indicated by the upper LED. Input B is indicated by the lower LED. A three-wire sensor will only use Input A, while a four-wire sensor will use both.

Each output connector provides AUX+, AUX-, Output A, and Output B. Outputs are individually short-circuit protected, but monitored as a group. Output A is indicated by the upper LED. Output B is indicated by the lower LED. The AUX- is the output ground. The AUX+ line is short circuit protected at 4Amps.

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 FDNL-S0808I-MM 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:
Bus Line: RSM RKM 579-*M
Auxiliary Power: RSM RKM 47-*M
Inputs / Outputs: VB2-RS 4.4T-*/2 RK 4.4T-*/* or RK 4.4T-*-RS 4.4T
Bus Tee: RSM 2RKM 57/C1125
Auxiliary Power Tee: RSM 2RKM 40
Combiner (Power Clamp): VB2-BKM 8*12RSG-0.2/0.2/CS10826

FDNL-S0808I-MM

- Advanced DeviceNet™ Station
- 4 x 2 discrete inputs and 4 x 2 discrete outputs

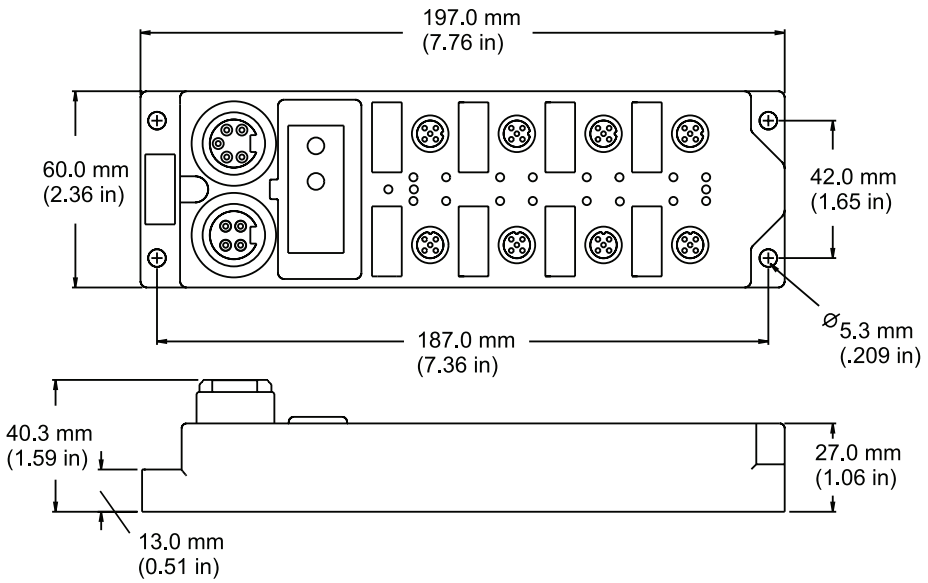
Applications

- For wet or dry environments
- For use with eight 3-wire or four 4-wire proximity and photoelectric sensors, and eight discrete actuators

Features

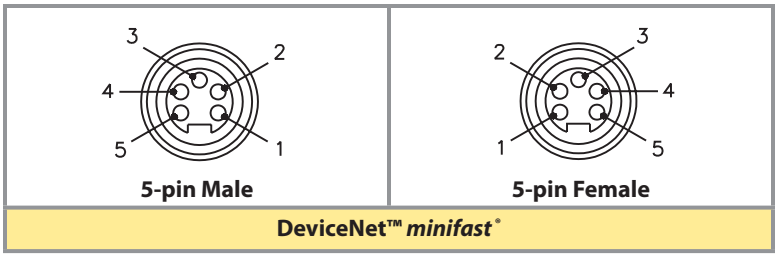
- PNP short-circuit protected inputs and open-circuit protection
- 2 Amp short-circuit protected outputs
- Glass filled nylon with nickel plated brass connectors
- Rotary address switches
- 4 amp aux power available on each output port

Dimensions

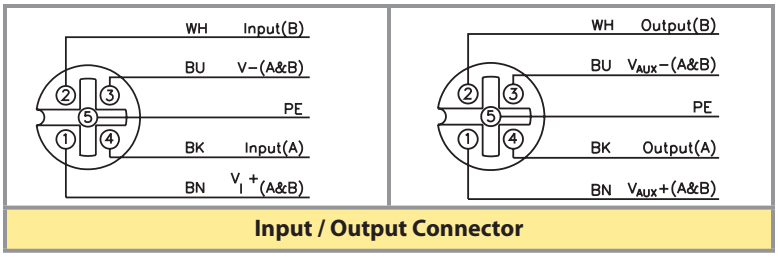


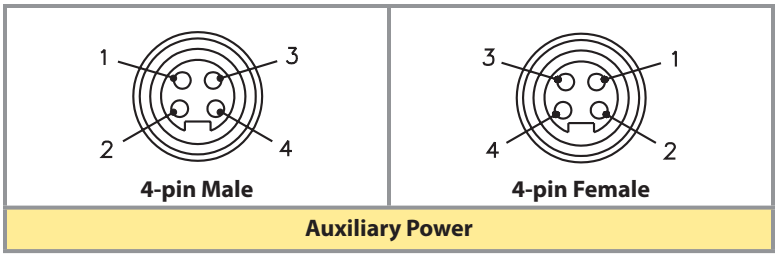
FDNL-S0808I-MM

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} -

I/O Data Mapping

Item Number: F0188
Product Type/Code: 7/3009 (BC1 hex)

	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-7	O-6	O-5	O-4	O-3	O-2	O-1	O-0

Abbreviations

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

FDNL-S0808I-MM

Module Specifications

4x2 Input DC / 4x2 Output DC

Supply Voltage

Bus Power	11-26 VDC
Internal Current Consumption	≤75 mA (plus the sum of inputs, from bus power)
Auxiliary Power	18-26 VDC, optically isolated, powers outputs

Input Circuits

Input Voltage	11-26 VDC (from bus power)
Input Short-Circuit	700 mA
Input Signal Current	OFF <2 mA
ON 3.0-3.4 mA at 24 VDC	
Input Delay	2.5 ms

Output Circuits

Output Voltage	18-26 VDC (from auxiliary power)
Output Load Current	2 A (9 A max)
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-Circuit

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

197 x 60 x 40 (H x W x D)

Material	Glass filled nylon with nickel plated brass connectors
Enclosure	NEMA 1, 3, 4, 6, 6P, 12, 13, and IEC IP 67, 68, and 69K
Operating Temperature	-40° to 70°C (-40° to 158° F)