FieldLink™ process networking solutions

Junction Module (JM™) Enclosure with:

DeviceNet *Input/Relay Output Module (JMR92____; JMI92____)*

These I/O Modules are designed to function as DeviceNet nodes with termination points for connecting switches/sensors (discrete and analog), as well as relay outputs to operate devices such as motors and other high power devices. Relay Outputs can be either Interlocked to operate AC motors or Independent to operate separate AC loads.

Inputs and Outputs

- Two (2) Discrete Inputs
- Two (2) Discrete (Relay) Outputs
- One (1) Analog Input (4-20mA)

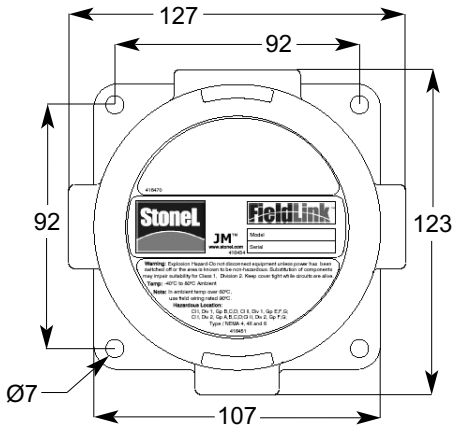
Features

- LED input displays for Inputs 1 & 2
- Fuse protected relay outputs
- Pre-determined output fail state
- Cycle count
- Date of last service

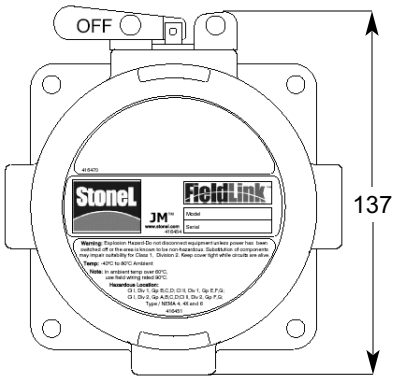
(See Page 3 detailed wiring instructions)

JM Enclosure Dimensions (in mm)

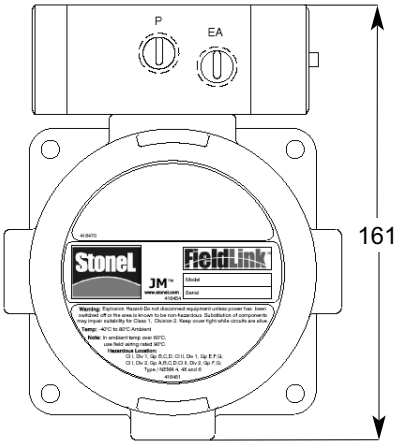
Standard Enclosure

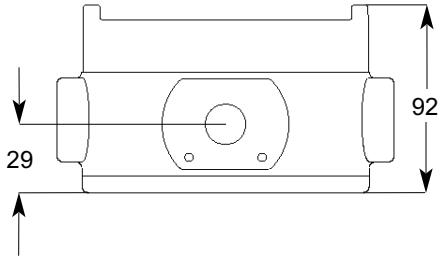


Switched Enclosure



Enclosure w/Cyclone Valve





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JM Model Options

Example: JMR9211E3

JM	Function	Solenoid	Enclosure	Conduit Entries
	R92 I/O Relay Module, 2 DI/2 DO/1 AI Independent Outputs, DeviceNet **I92** I/O Relay Module, 2 DI/2 DO/1 AI Interlocked Outputs, DeviceNet	**11** No Solenoid (Relay models not available with solenoid)	**C** Clear Cover **E** Epoxy Coated Aluminum	**3** (3) 1/2" NPT **N** (4) 1/2" NPT **6** (3) M20 **M** (4) M20 **9** (3) 3/4" NPT **T** (4) 3/4" NPT

General Specifications

Operating Life	Unlimited
Materials of Construction	
Housing and Cover	Marine grade anodized aluminum epoxy coating
Clear Cover	Lexan® Polycarbonate
Elastomer Seals	Buna-N
Fasteners	Stainless Steel
Warranty	
Complete Assemblies	Two Years

Lexan is a registered trademark of General Electric Corporation.

Temperature Range	-40° to +80° C (-23° to 180° F)
Enclosure Protection	NEMA 4, 4X & 6; IP67

Hazardous Area Ratings

Explosion Proof (Aluminum Cover)
Class I, Div. 1 and 2, Groups B,C,D
Class II, Div. 1 and 2, Groups E,F,G

Non-incendive (Clear Cover)
Class I, Div. 2, Groups A,B,C,D
Class II, Div. 2, Groups E,F,G
(Not all units carry approvals, consult factory)

Mounting Instructions

Mounting The JM Enclosure

1. Locate the position where the JM enclosure will be mounted. Ensure that there is sufficient room to operate the disconnect switch levers and to remove the cover.
2. Attach the JM enclosure to a wall or other stationary flat surface using the mounting holes provided.
3. Secure the cover until hand tight

Attaching Conduit and Fittings

1. Conduit entries are provided for the convenient attachment of threaded conduit and threaded conduit fittings. Attach threaded fittings and conduits securely.
2. Follow all applicable NEC codes and other regulations.

Installing & Removing Cover

1. To insure NEMA 4, 4X. 6 and hazardous location ratings are maintained the cover **must be** completely closed and the O-Ring sealed to keep out water.

Input/Relay Output Module Specifications

DeviceNet 2 DI/2 Relay DO/1 AI Input/Output Modules

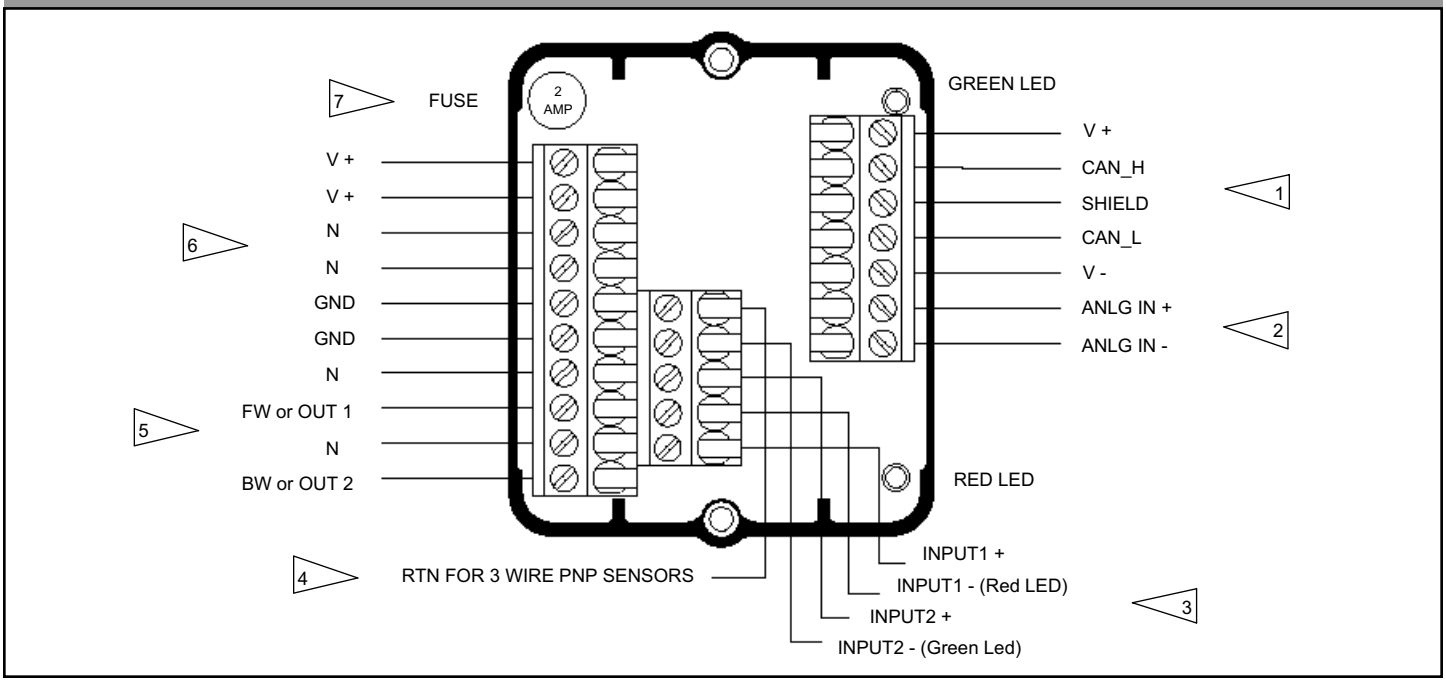
Operating Voltage	24 VDC via DeviceNet voltage
Discrete Inputs	(2) 7mA @ 24 VDC gold contact mechanical, low power reed, or 2 wire and 3 wire PNP solid state sensors
Analog Input	(1) Analog (4-20 mA) input. 8 bit resolution (0.4%)
Relay Outputs	(2) 120/250VAC/30VDC fused @ 2 amps (Interlocked or Independent)
External Voltage (For Relay Outputs)	Up to 250 VAC; 30 VDC
Default Address	63

Bit Assignment:

Inputs: (3 Bytes)	**Outputs (1 Byte)**
Bit 0 = Input 1 (Red)	Bit 0 = Output 1
Bit 1 = Input 2 (Green)	Bit 1 = Output 2
Bit 4 = Fault Bit (On if both Input 1 and Input 2 are set)	
Bits 8-15 = Analog Input (Low Byte)	
Bits 16-23 = Analog Input (High Byte)	

Operating Life	Unlimited
Warranty	Two Years

Input/Relay Output Module Wiring Diagram and Installation Notes



INSTALLATION NOTES:

1. DeviceNet bus communications connection points.
2. 24 VDC Bus powered Analog Input device connection points. (4-20mA)
3. Bus powered Discrete Input connection points for low power (7mA @ 24 VDC) gold contact mechanical switches, low power reed, or 2 wire and 3 wire PNP solid state proximity sensors (max allowable current leakage of sensors 0.165mA). Red LED is local indication of discrete Input 1 on/off status and the Green LED for discrete Input 2 on/off status.
4. Connection point for the “return” of 3 wire PNP sensors. (See Note 3)
5. Connection points for devices to be controlled by the Relay Outputs. OUT1 and OUT2 are markings found on modules with independent outputs (461084). BW And FW markings are used on modules with interlocked outputs (461083). Modules with interlocked outputs are typically used with AC motors. BW and FW represent forward and reverse operation of the motor.
6. Connection points for external 120/250VAC or 30VDC power for devices connected to the Relay Outputs. V+, V+, N, N, GND, GND are redundant termination points. The external power source feeds both Relay Outputs
7. 2 amp replaceable fuse (Part# 434162) for Relay Output protection. (See Note 6)