

**DeviceNet™ Input/Relay Output Modules**

**461083 - (Interlocked Outputs, Flat mount)**

**461084 - (Independent Outputs, Flat mount)**

**465018 - (Interlocked Outputs, DIN rail mount);**

**465019 - (Independent Outputs, DIN rail mount)**

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

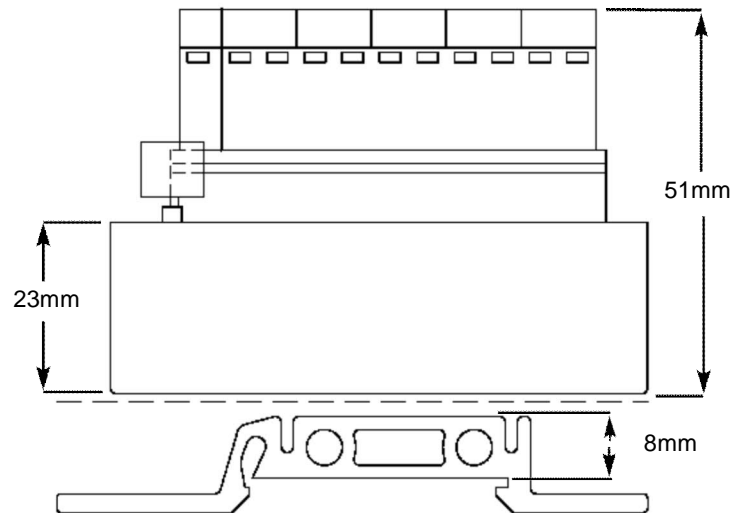
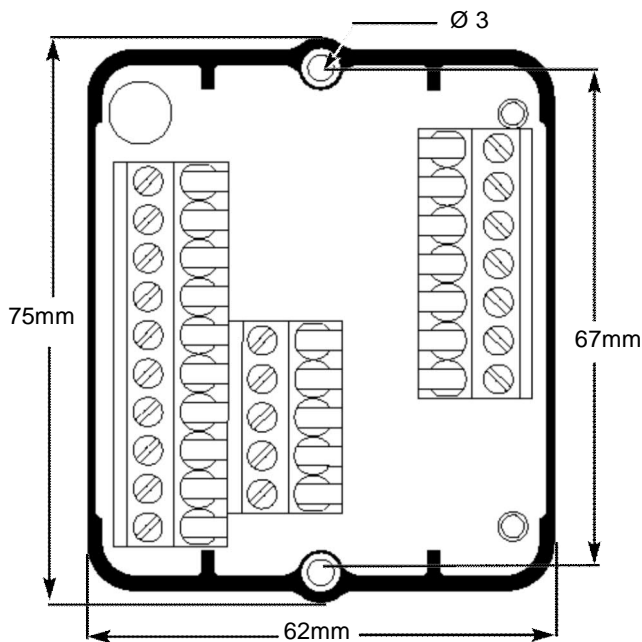
**Features**

- LED input displays for Inputs 1 & 2
- Direct mount or DIN rail mount
- Fuse protected relay outputs



(See reverse for specifications and detailed wiring instructions)

**Input/Relay Output Module Dimensions (in mm)**



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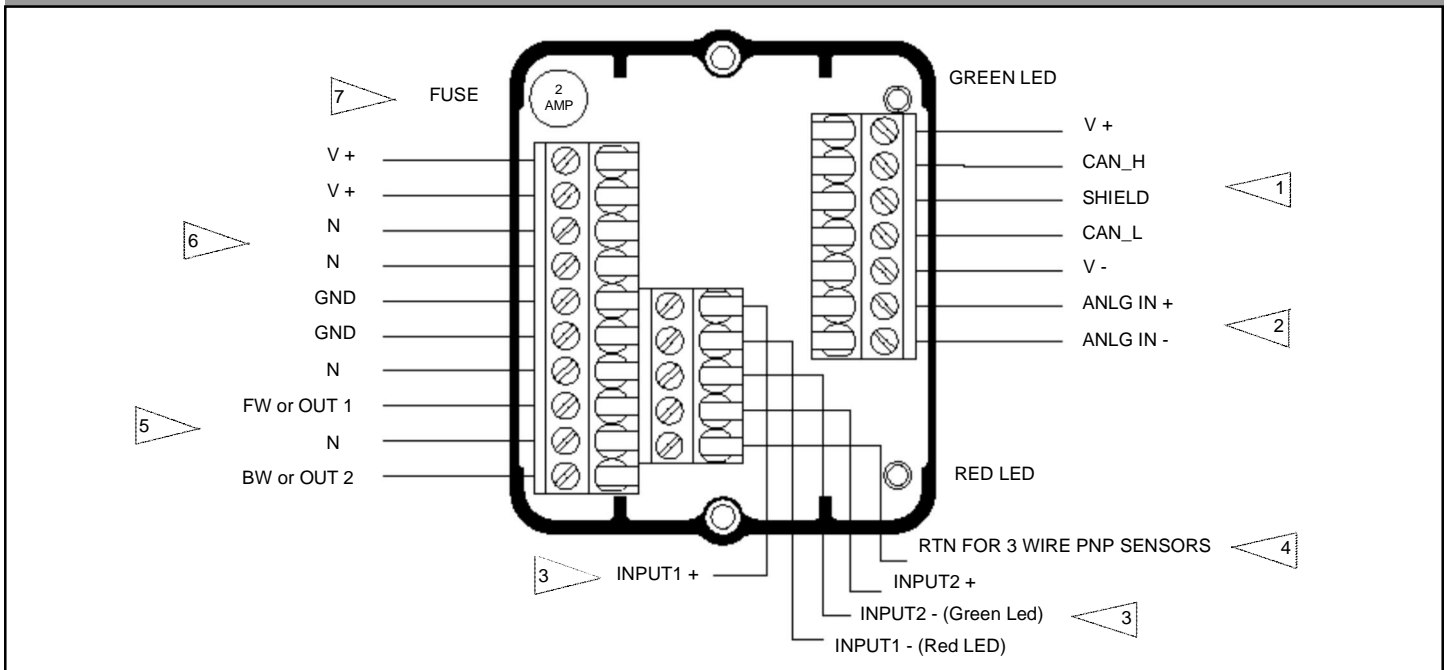
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## DeviceNet™ 2 DI/2 Relay DO/1 AI Input/Output Modules

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| <p>Operating Voltage 24 VDC via DeviceNet™ voltage</p> <p>Discrete Inputs (2) 7mA @ 24 VDC gold contact mechanical, low power reed, or 2 wire and 3 wire PNP solid state sensors</p> <p>Analog Input (1) Analog (4-20 mA) input. 8 bit resolution (0.4%)</p> <p>Relay Outputs (2) 120/250VAC/30VDC fused @ 2 amps (Interlocked or Independent)</p> <p>External Voltage (For Relay Outputs) Up to 250 VAC; 30 VDC</p> <p>Default Address 63</p> | <p>Bit Assignment:</p> <p><b>Inputs: (3 Bytes)</b></p> <p>Bit 0 = Input 1 (Red)</p> <p>Bit 1 = Input 2 (Green)</p> <p>Bit 4 = Fault Bit (On if both Input 1 and Input 2 are set)</p> <p>Bits 8-15 = Analog Input (Low Byte)</p> <p>Bits 16-23 = Analog Input (High Byte)</p> <p>Temp Range -40° to +85° C (-23° to 185° F)</p> <p>Operating Life Unlimited</p> <p>Warranty Two Years</p> | <p><b>Outputs (1 Byte)</b></p> <p>Bit 0 = Output 1</p> <p>Bit 1 = Output 2</p> |
|--|--|--|

## 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, 465019). BW And FW markings are used on modules with interlocked outputs (461083, 465018). 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.

**NOTE:** Power applied to the V+ and N terminals must be a different and isolated power source than the power applied to the module V+ and V- DeviceNet™ terminals.

7. 2 amp replaceable fuse (Part# 434162) for Relay Output protection. (See Note 6)