

MODBUS *Modbus Input/Relay Output Modules*

461085 - (Interlocked Outputs, Flat mount)

461086 - (Independent Outputs, Flat mount)

465020 - (Interlocked Outputs, DIN rail mount);

465021 - (Independent Outputs, DIN rail mount)

These I/O Modules are designed to function as Modbus (RS485) 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

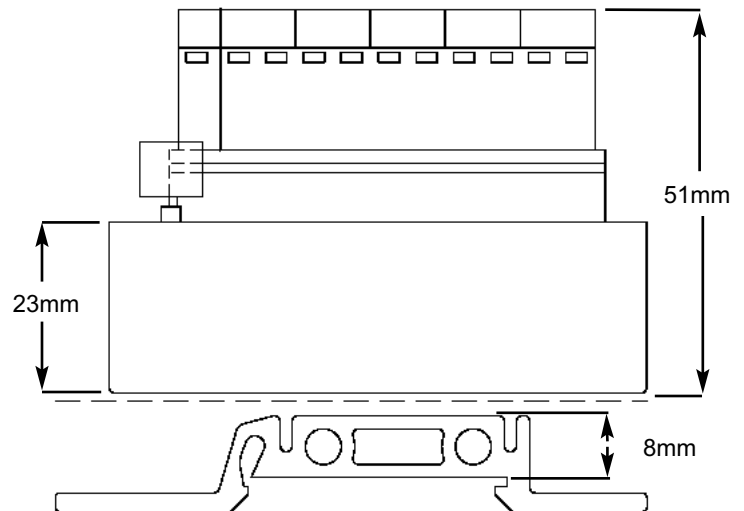
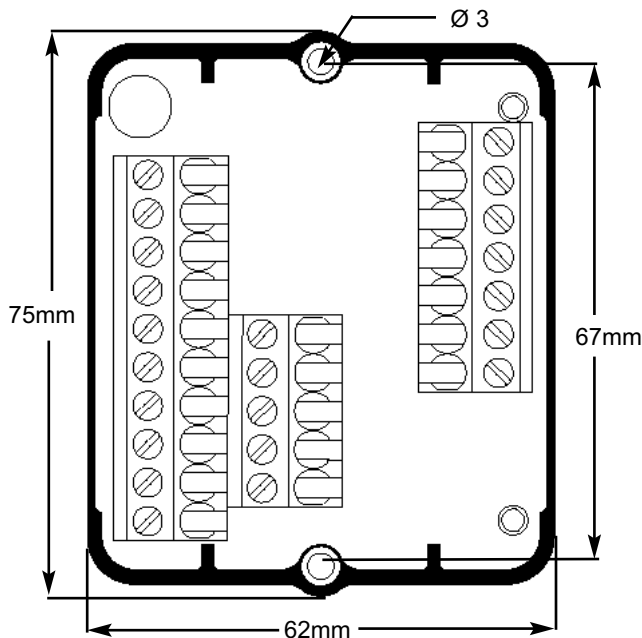
Features

- 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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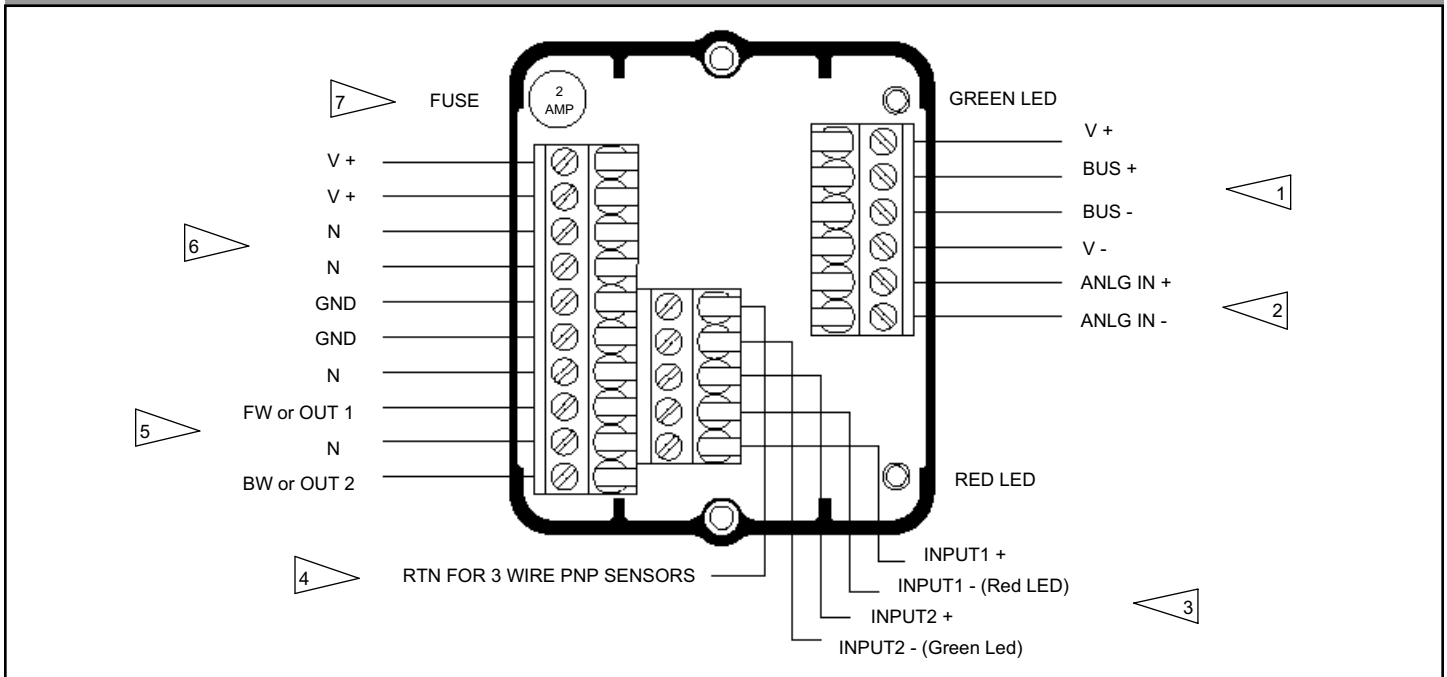
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Modbus 2 DI/2 Relay DO/1 AI Input/Output Modules

Operating Voltage	24VDC (The 24VDC power source should share the same ground reference as the communication line)	Default Address	03
Discrete Inputs	(2) 7mA @ 24VDC gold contact mechanical, low power reed, 2 wire solid state, or 3 wire PNP solid state sensors	Bit Assignment:	
		Input Data	Output Data
		Input 1 (Red LED) = 10001	Output 1 = 00001
		Input 2 (Green LED) = 10002	Output 2 = 00002
		Analog Input = 30001	
Analog Input	(1) Analog (4-20mA) input. 10 bit resolution (0.1%)	Temp Range	-40° to +85° C (-23° to 185° F)
Relay Outputs	(2) 120/250VAC/30VDC fused @ 2 amps (Interlocked or Independent)	Operating Life	Unlimited
External Voltage	Up to 250VAC; 30VDC (For Relay Outputs)	Warranty	Two Years

Input/Relay Output Module Wiring Diagram and Installation Notes



INSTALLATION NOTES:

1. Modbus bus communications connection points.
2. 24VDC Bus powered Analog Input device connection points. (4-20mA)
3. Bus powered Discrete Input connection points for low power (7mA @ 24VDC) gold contact mechanical switches, low power reed, 2 wire solid state, or 3 wire PNP solid state proximity sensors (max allowable current leakage of sensors 0.2mA). 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 (461086, 465021). BW And FW markings are used on modules with interlocked outputs (461085, 465020). 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)