

Latching Relay with Intrinsically Safe Inputs

ISR_-L

Specifications

Electrical Supply Voltage: 24, 120 & 240VAC ±10% Power: 2VA Inputs: Switch Closure or Probe (Conductivity) Input Sensitivity: 3K - 1.5MΩ Pick-up & Drop-out Delays: 1 second Max. Open Circuit Voltage: 5 volts AC Max. Source Current: 0.1 milliamp AC Output Rating @ 25°C: 5 Amps or 100VA per contact 10 Amps total 250VAC maximum contact rating 10,000,000 Mechanical Cycles

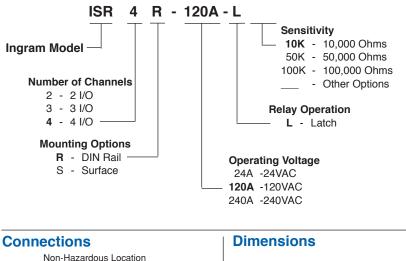
Physical

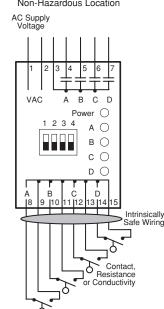
Mounting: Din Rail mount Termination: Touch safe screw terminals, with lift mechanism, #12 AWG max. for supply and relay contacts, #16 AWG max. for intrinsically safe inputs. Weight: 10 Oz.

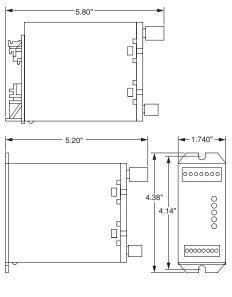
Ambient Temperatures

Operating: 0°C to 50°C **Storage:** -40°C to 85°C

Ordering Information









- Latching Logic
- Pump Down or Pump Up
- · 2, 3, or 4 Channels
- Shorted Input Sensing
- Open Input Sensing
- Contact or Probe Inputs
- Output and Input LED Indication



UL913 Class I, Division 1 Groups A, B, C & D

Operation

Four Channel Latching Relay

Supply voltage must be applied to the ISR_-L relay during operation. The ISR_-L can have 2, 3 or 4 channels. The latching logic is set up for a pump down operation. (Pump up is available too.) When IS input #1 closes its LED changes and #1 output contact closes. When IS input #2 closes, output contact #2 closes, latches in and starts the first pump. When IS inputs #3 and #4 close, Output contacts #3 and #4 latch closed, respectively. All output contacts remain closed, even if their inputs open, until input #1 opens, and all output contacts open, indicating that the system has pumped down.

- LED indicators will be:
- Red When the IS input is open or high Green - When both the IS input & output contact are closed
- Amber Latch Logic IS input open & Output closed
- Flashes During transition delay A green LED indicates when supply voltage has been applied to the ISR_-L.

Installation of Relays with Intrinsically Safe Inputs



