

INTRINSICALLY SAFE RELAY

MADE IN THE U.S.A.

FEATURES:

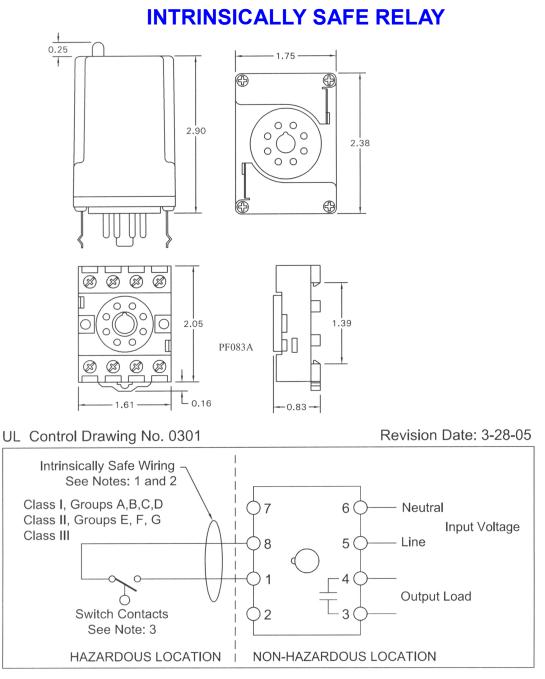
LED Indicator Surge Protection Relay Contact Output Din Rail Mounting Socket Included



OPERATION

The Intrinsically Safe Relay provides a safe and reliable method of load control when interfaced with a contact closure in a hazardous location. When the control switch input is closed between pins 1 and 8, the output relay becomes energized, and the LED is illuminated. When the control switch input is open, the output relay is deenergized, and the LED is turned off.

TYPICAL APPLICATIONS		COULDUS
Lift station controls where intrinsic safety is required.		LISTED
Anywhere an interface is required where the contact		73VL
closure is in a hazardous location and the controls are		UL913
in a non-hazardous location.		UL FILE
SPEC Operating Voltage: Output Rating: Power Consumption: Operating Temp: Storage Temp: Enclosure: Base: Socket:	CIFICATIONS 120 VAC, ± 10%, 50/60 Hz 10A @ 120 VAC Resistive 1.25 VA -20 to +60 °C -45 to +85 °C Lexan 8 Pin, Round 8 Pin, Din Rail Mount with Special Locking Tab	UL FILE #E189808 This associated apparatus provides intrinsically safe circuits for use in Class I, Groups A, B, C, D Class II, Groups E, F, G and Class III - Hazardous Locations in accordance with the M.P.E. drawing Number 0301.



Notes for UL Control Drawing 0301:

- 1. All intrinsically safe wiring shall be separated from non-intrinsically safe wiring. Refer to article 504 of the National Electric Code (ANSI/NFPA 70) for installation of intrinsically safe wiring.
- 2. Maximum distance between unit and switch contacts is 1000 feet.
- 3. Switch contact shall be any non-energy storing or generating switch type device containing no capacitance or inductance.
- 4. Device must be installed in MPE socket P/N DS-8-A or PF083A and with locking clips attached to base.
- 5. Cable capacitance plus intrinsically safe equipment capacitance (Ci) must be less than the marked capacitance (Ca) and cable inductance plus intrinsically safe equipment inductance (Li) must be less than the marked inductance (La) shown any barrier.
- 6. The simple apparatus (Float Świtch) connected to the ISR shall not be mounted on other electrical apparatus that has a voltage and current rating higher than the ISR (See Enity Parameters Voc and Isc below). A simple apparatus (Such as a Float Switch) is defined as an electrical component or combination of components of simple construction with well defined electrical parameters that does not generate more than 1.5V, 100mA and 25mW, or a passive component that does not dissipate more than 1.3W and is compatible with the intrinsic safety of the circuit in which it is used.
- 7. If the electrical parameters of the cable are unknown, then a capacitance value of 60pF/ft and an inductance of 0.20uH/ft are to be used.
- 8. Entity Parameters: Voc = 9.33V Isc = 0.218mA Ca = 3.6uF La = 100mH