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Protection Relays Intrinsically Safe Relays



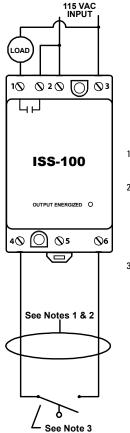
ISS-100

Single-Channel Intrinsically Safe Switch





Wiring Diagram



1. Maximum distance between unit and switch contact is 10,000 feet.

2. All non-intrinsically safe wiring shall be separated from intrinsically safe wiring. Description of special wiring methods can be found in the National Electrical Code ANSI/NFPA 70, Article 504 Intrinsically Safe Systems. Check your state and local codes for additional requirements.

3. All switch contacts shall be non-energy storing, containing no inductance or capacitance.

Weight **Mounting Method**

Description

The ISS-100 switches are UL 913 listed as an associated apparatus for interfacing between hazardous and non-hazardous areas. These units must be installed in a non-hazardous area.

Features & Benefits

| FEATURES | BENEFITS |
|--|---|
| Finger-safe terminals | Meets IEC 61000 safety requirements |
| Compact design for DIN rail or surface mount | Allows flexiblility in panel installation |
| LED Status Indicator | Visual indication of relay engagement |
| Isolated output relay | Allows connection to PLC or control voltage |

Specifications

| Specifications | |
|------------------------------------|--|
| Input Characteristics | |
| Supply Voltage | 90-120VAC |
| Functional Characteristics | |
| Probe Sense Voltage | 5vdc continuous |
| Output Characteristics | |
| Output Contact Rating | |
| Pilot Duty | 180VA @120VAC, C300 |
| General Purpose | 8A @120VAC |
| Relay Contact Life (Electrical) | 100,000 cycles min. @ rated load |
| Relay Contact Life (Mechanical) | 10,000,000 cycles |
| General Characteristics | , |
| Temperature Range | -20° to 55°C (-4° to 131°F) |
| Maximum Input Power | 1.5 W |
| Wire range | 12 to 20 AWG |
| Terminal Torque | 3.5 to 4.5 inlbs. (max. 4.5 inlbs.) |
| Provides Intrinsically-Safe | |
| Circuits in the | |
| following locations: | Division 1 and 2 |
| | Class I, Groups A,B,C,D; |
| | Class II, Groups E,F,G; |
| | and Class III |
| Entity Parameters | $V_{oc} = 16.8V$ $Po=\underline{Voc*lsc}$ |
| | I _{sc} = 1.2mA 4 |
| | $L_a = 100 \text{mH}$ |
| | $C_a = 0.39 \mu F$ |
| Standards Passed | |
| Electrostatic Discharge (ESD) | IEC 61000-4-2, Level 3, 6kV contact, 8kV air |
| Radio Frequency Immunity (RFI) | IEC 61000-4-3, Level 3, 10V/m |
| Fast Transients | IEC 61000-4-4, Level 3, 4kV input power |
| Safety Mark | |
| UL | UL913 Sixth Edition (File #E233355) |
| Dimensions | H 88.9 mm (3.5"); W 52.93 mm (2.08"); |
| | D 59.69 mm (2.35") |
| Weight | 0.5 lb. (8 oz., 226.8 g) |
| | |

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35mm DIN rail or Surface Mount

(#6 or #8 screws)