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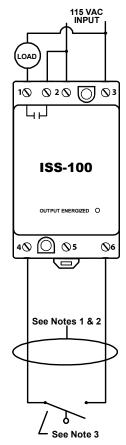
ISS-100

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.

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

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 Power1.5 WWire range12 to 20 AWG

Terminal Torque 3.5 to 4.5 in.-lbs. (max. 4.5 in.-lbs.)

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 $V_{oc} = 16.8V$ $Po = \frac{Voc*|sc}{}$

 $I_{sc} = 10.6V$ FO = VOC $I_{sc} = 1.2 \text{mA}$ 4 $I_{a} = 100 \text{mH}$

 $C_a = 0.39 uF$

Standards Passed

Electrostatic Discharge (ESD) IEC 61 Radio Frequency Immunity (RFI) IEC 61

Fast Transients Safety Mark IEC 61000-4-2, Level 3, 6kV contact, 8kV air IEC 61000-4-3, Level 3, 10V/m

IEC 61000-4-3, Level 3, 10V/m
IEC 61000-4-4, Level 3, 4kV input power

120 01000 1 1, 2000 0, 1KV IIIpat powe

 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)

Mounting Method 35mm DIN rail or Surface Mount

(#6 or #8 screws)