

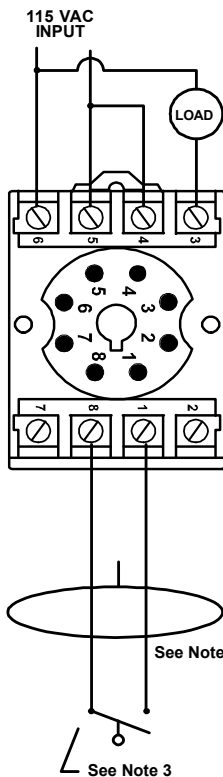
ISS-101

Single-channel intrinsically safe switch



Wiring Diagram

CONTROL DRAWING ISS-101



NOTES:

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.

See Install Bulletin for full instructions and Hazardous Location information.

Description

The ISS-101 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.

Must use Model OT08PC socket for UL Rating!

Note: Manufacturer's recommended screw terminal torque for the OT Series Octal Sockets is 12 in.-lbs.

Features & Benefits

| FEATURES | BENEFITS |
|--|---|
| Compact design for DIN rail or surface mount via octal base | Allows flexibility in panel installation |
| LED status indicator | Visual indication of relay engagement |
| Isolated output relay | Allows connection to PLC or control voltage |
| Standard 8-pin socket | Pop-in replacement for other manufacturers' parts |

Accessories (included)



OT08PC 8-pin Octal Socket

Octal Socket for plug-in units. 8-pin surface & DIN rail mountable. Rated for 10A @ 600VAC.

Specifications

Input Characteristics

Supply Voltage 90-120VAC

Functional Characteristics

Probe Sense Voltage 5VDC continuous

Output Characteristics

Output Contact Rating

180VA @120VAC, C300

Pilot Duty

8A @120VAC

General Purpose

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 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

$V_{OC} = 16.8V$ $P_o = V_{OC} \cdot I_{SC}$

$I_{SC} = 1.2mA$

4

$L_a = 100mH$

$C_a = 0.39\mu F$

ISS-101

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** 44.45 mm (1.75"); **W** 60.33 mm (2.375");

D 104.78 mm (4.125")

Weight 0.5 lb. (8 oz., 226.8 g)

Mounting Method DIN rail or surface mount

(plug into OT08PC socket)