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With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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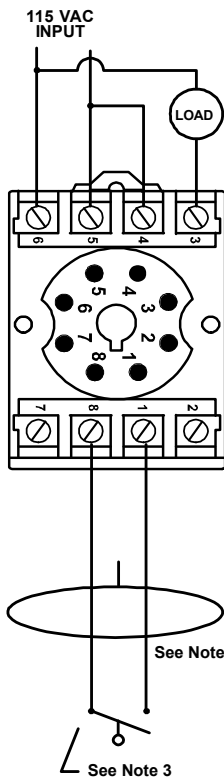
# ISS-101

## 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
<b>Compact design for DIN rail or surface mount via octal base</b>	Allows flexibility in panel installation
<b>LED status indicator</b>	Visual indication of relay engagement
<b>Isolated output relay</b>	Allows connection to PLC or control voltage
<b>Standard 8-pin socket</b>	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)