ISS-101

Single-channel intrinsically safe switch

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

<table>
<thead>
<tr>
<th>FEATURES</th>
<th>BENEFITS</th>
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<tbody>
<tr>
<td>Compact design for DIN rail or surface mount via octal base</td>
<td>Allows flexibility in panel installation</td>
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<tr>
<td>LED status indicator</td>
<td>Visual indication of relay engagement</td>
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<tr>
<td>Isolated output relay</td>
<td>Allows connection to PLC or control voltage</td>
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<tr>
<td>Standard 8-pin socket</td>
<td>Pop-in replacement for other manufacturers’ parts</td>
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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
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 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

\[
\begin{align*}
V_{DC} &= 16.8V \\
I_{SC} &= 1.2mA \\
L_g &= 100mH \\
C_g &= 0.39uF
\end{align*}
\]
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)