

Installation Instructions for ISS-100 Isolated Switch

WARNING: TO PREVENT IGNITION OF FLAMMABLE OR COMBUSTIBLE ATMOSPHERES, DISCONNECT POWER FROM SYSTEM PRIOR TO INSTALLATION OR SERVICE.

CAUTION: Installation must comply with all national, state, and local codes. Installation of this equipment should only be performed by personnel trained in intrinsically safe systems. Improper installation may result in serious injury or damage. Before proceeding with installation, read and understand these instructions completely.

The ISS-100 Isolated Switch is UL913 listed as an associated apparatus for interfacing between hazardous and non-hazardous areas. The ISS-100 must be installed in a non-hazardous area. Follow SymCom's Control Drawing 100 on the back of this sheet for proper installation.

All wiring connected to a hazardous location must be separated from all non-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.

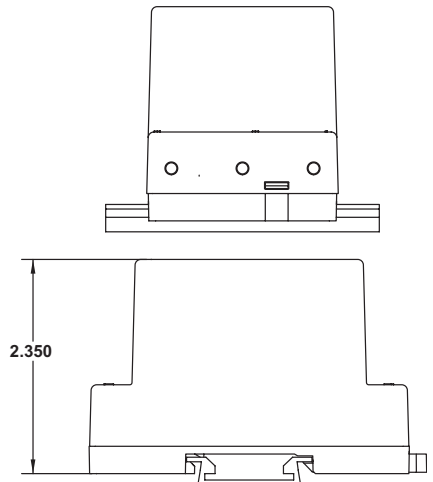
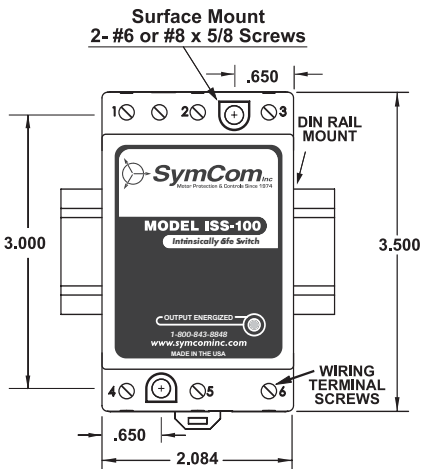
WARNING: REMOVE POWER FROM SYSTEM PRIOR TO INSTALLING OR SERVICING THE ISS-100 RELAY.

Installation:

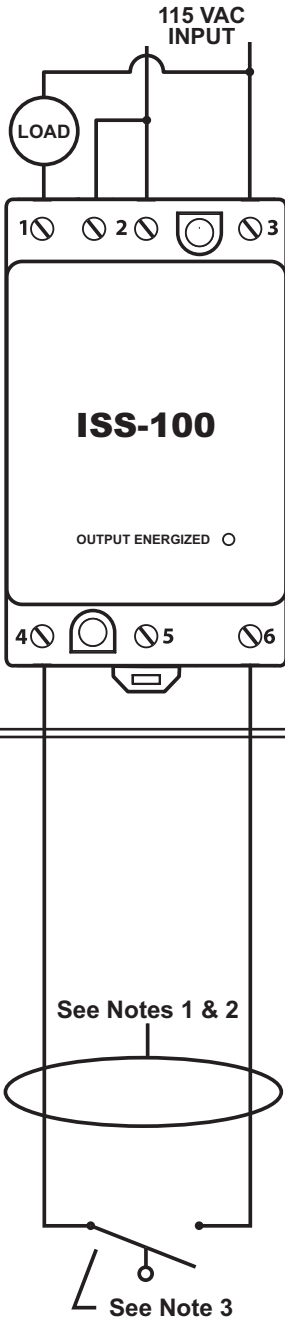
1. Mount the ISS-100 in a non-hazardous location on a DIN-rail, or by installing two #6-#8 screws into the surface mounting holes provided.
2. Connect wiring per SymCom's Control Drawing 100. Follow all hazardous code requirements while installing wiring to switch input terminals 4 and 6.

Operation:

The ISS-100 relay is powered with 115VAC and is designed as an isolated switch suitable for applications with switch inputs in a hazardous location. In a powered state, the ISS-100 will close its output relay when the input switch is closed. The green LED on the cover will illuminate when the relay is energized and extinguish when the relay is de-energized.



CONTROL DRAWING 100



Non-Hazardous Location

Supply Voltage

90 - 120 VAC

Relay Output Rating

8 Amps @120 VAC General Purpose
Pilot Duty 180 VA @115 VAC, C300

Maximum Ambient Temperature Rating

55° C

**MUST BE INSTALLED
IN A SUITABLE ENCLOSURE.**

WARNING!

**To prevent ignition of flammable or
combustible atmospheres, disconnect
power before servicing.**

Hazardous Location

Class I, Group A,B,C,D;
Class II, Groups E,F,G; and
Class III locations

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 per NEC article 500 and ANSI/NFPA 70.
3. All switch contacts shall be non-energy storing, containing no inductance or capacitance.
4. Entity Parameters
 $V_{oc} = 16.8 \text{ V}$
 $I_{sc} = 1.7 \text{ mA}$
 $L_a = 0$
 $C_a = 0$