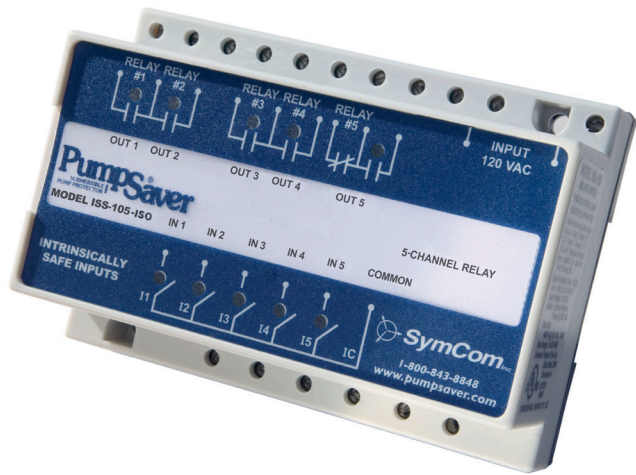


# Intrinsically-Safe Switch

## Model ISS-105-ISO



### Features:

- 5-channel intrinsically-safe switch
  - 3 & 4 channel available
  - Faster relay response time available
- Logic can be inverted
- LEDs provide proof of input and output activation
- UL 913 listed
- Made in the USA

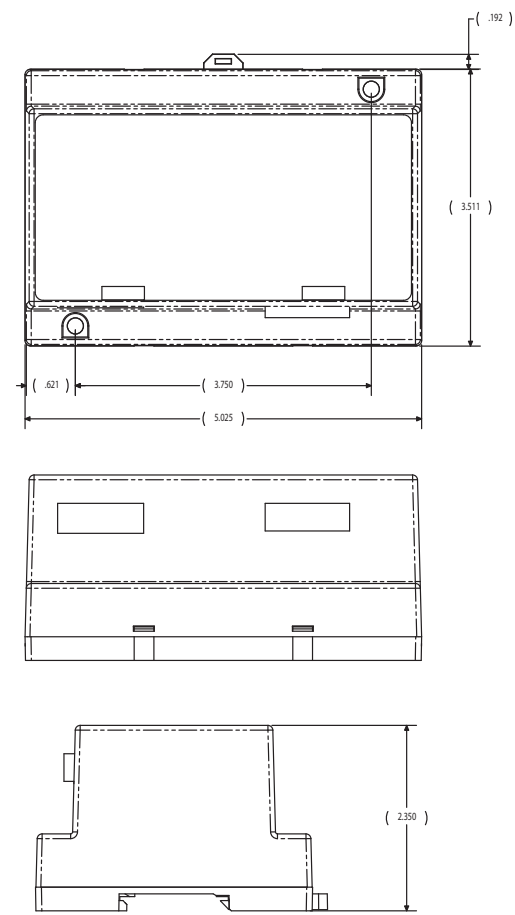
The Model ISS-105-ISO is a 5-channel intrinsically-safe relay switch suitable for applications with switch inputs in hazardous locations. The five channels operate independently of each other and each input and output relay has an LED that illuminates when the corresponding input and output relay activates. The relay logic can be inverted from positive to negative logic, meaning the output relay will close (positive logic) when the corresponding input closes, or the output relay will open (negative logic) when the corresponding input closes (channels cannot be inverted independently).

The Model ISS-105-ISO comes as a basic 5-channel relay, however three modified versions are available. The ISS-105-ISO-3 is for 3-channel applications, the ISS-105-ISO-4 is for 4-channel applications, and the ISS-105-ISO-F is for 5-channel applications requiring a faster relay response time ( $\leq 0.75$  seconds) after the input is actuated.

Specifications

Functional Characteristics	
Debounce Time (except for the -F version)	2 seconds
Input/Output Channels	
ISS-105-ISO	5 channels
ISS-105-ISO-3	3 channels
ISS-105-ISO-4	4 channels
ISS-105-ISO-F	5 channels with faster response time ( $\leq 0.75$ seconds)
Entity Parameters	Voc = 16.8V Isc = 1.2mA La = 100mH Ca = 0.39 $\mu$ F $P_o = \frac{V_{oc} * I_{sc}}{4}$
Hazardous locations	Class I, Div 1 & 2, Groups A, B, C, D Class II, Div 1 & 2, Groups E, F, G Class III
Input Characteristics	
Supply Voltage	120VAC
Frequency	50/60 Hz (note: 50Hz will increase all delay timers by 20%)
Output Characteristics	
Output Contact Rating	
Pilot Duty	480VA @ 240VAC, B300
General Purpose	7A @ 240VAC
General Characteristics	
Operating Temperature (Surrounding Air)	-20° to 55° C (-4° to 131° F)
Maximum Input Power	4 W
Relative Humidity	10-95%, non-condensing per IEC 68-2-3
Terminal Torque	6 in.-lbs.
Wire Gauge	12-20 AWG Solid or stranded
Class of Protection	IP20 (finger safe)
Standards Passed	
Electrostatic Discharge (ESD)	IEC 61000-4-2, Level 3, 6kV contact, 8kV air
Radio Frequency Immunity (RFI)	10V/m @ 150MHz
Fast Transients	IEC 61000-4-4, Level 3, 4kV input power, 2kV inputs/outputs
Safety Marks	
UL listed	UL913 6th Edition (File #233355)
Dimensions	3.703" H x 5.025" W x 2.350" D
Weight	1.2 lbs.
Mounting Method	DIN rail or surface mount (with #8 screws)

Enclosure Dimensions



How to order:

Part Number: ISS-105-ISO  
ISS-105-ISO-3  
ISS-105-ISO-4  
ISS-105-ISO-F



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