

Intrinsically-Safe Dual-Channel Switch

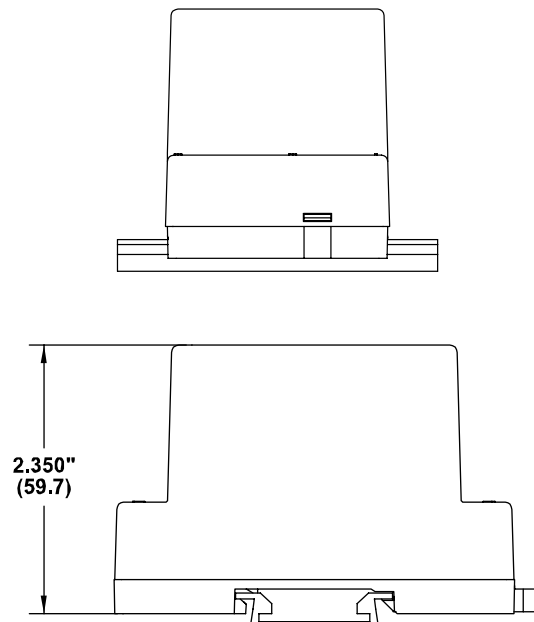
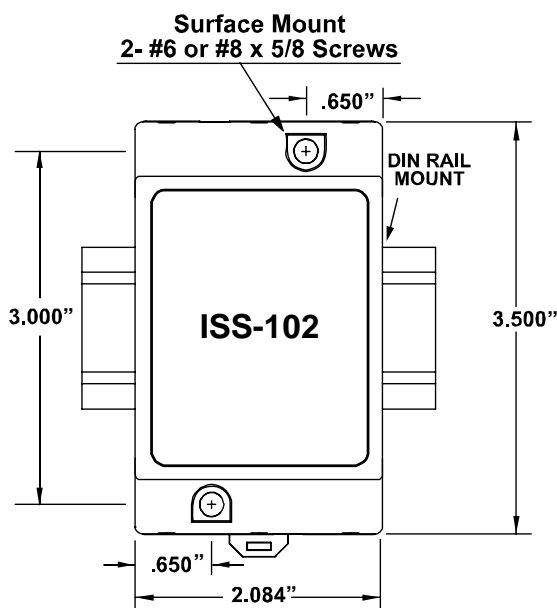
Model ISS-102AA-DCS



SymCom's ISS-102AA-DCS is a dual-channel switch with two form-A output relays. The input resistance threshold is fixed at 100k Ω . Each output contact closes upon closure of its associated input switch (input resistance <100k Ω). Resistance probes or switches can be used on the inputs.

The ISS-102AA-DCS has a 0.5-second debounce time delay—the output contact will not change states until a condition exists for 0.5 second—to prevent nuisance actuation and rapid cycling.

Green LEDs illuminate on the ISS-102AA-DCS when the associated output relay is energized.



Specifications

Functional Specifications:	
Entity Parameters:	Voc = 16.8V Ca = 0.39µF Isc = 1.2mA Po = $\frac{Voc * Isc}{4}$ La = 100mH
Hazardous Locations	Class I, Division I & II, Group A, B, C & D; Class II, Division I & II, Group E, F& G; Class III locations
Adjustments/Settings	
Sensitivity (for resistive probes)	100kΩ fixed
Mode	2-channel switch
Debounce Time Delay	0.5 second
Input Characteristics:	
Supply Voltage:	120VAC nominal
Frequency:	50/60 Hz
Output Characteristics:	
Relay Output Rating: 2 - Form A	5Amps @ 120VAC General Purpose Pilot Duty 180VA @ 120VAC, C150
LEDs (green)	Output Relay Status Indicators
General Characteristics:	
Operating Temperature:	-20 to 55° C
Terminals:	
Wire Size	12-20 AWG
Torque	6 in.-lbs. (max.)
Standards Passed:	
Electrostatic Discharge (ESD)	IEC 61000-4-2, Level 3, 6 kV contact, 8 kV air
Radio Frequency Immunity (RFI)	IEC 61000-4-2, Level 3, 10V/m
Fast Transients	IEC 61000-4-4, Level 3, 4 kV power terminals, 2kV input/output terminals
Safety Marks:	
UL	UL913 (File #E233355)
Dimensions:	(LxWxD) 3.5" x 2.1" x 2.5"
Weight:	9 oz.
Mounting Methods:	35 mm DIN rail or Surface Mount (#6 or #8 screws)

How to order:

Part Number: ISS-102AA-DCS

