

### Features:

- MSHA evaluated (Mine Safety and Health Administration)
- LED indicates output relay status
- Compact design
- Finger-safe terminals
- DIN rail or surface mountable
- Pump-up or pump-down operations
- Debounce time delay (2 seconds)
- 5-year warranty
- Made in USA

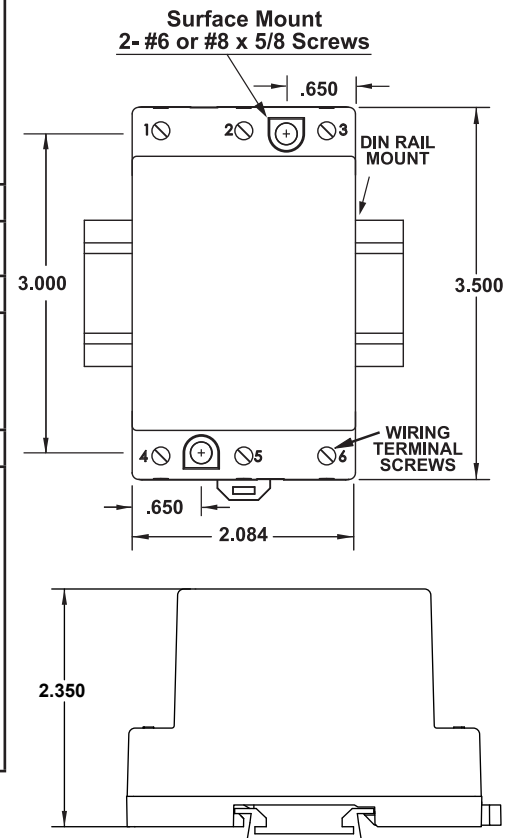
SymCom's ISS-102C-M-LC (Latching Controller) is an intrinsically-safe switch for interfacing between hazardous and non-hazardous areas. It is a dual-input, single output (Form C), pump controller with latching/differential logic. Both input channels are compatible with switches (float, pressure, etc.) and resistive probes (fixed 100kΩ threshold). The unit is configurable for pump-up or pump-down applications.

Each input channel is "active" when the corresponding switch is closed (or low resistance is detected, if using probes). When the LAG input (CH2) is activated, the output contact closes. Following latching/differential logic, the output contact remains closed until both the LEAD (CH1) and LAG (CH2) inputs are deactivated. The green RUN LED illuminates when the output relay is energized.

## Specifications

Functional Characteristics	
Entity Parameters	Voc = 16.8V      Ca = 0.39µF Isc = 1.2mA      Po = $\frac{Voc * Isc}{4}$ La = 100mH
Hazardous Locations	Class I, Division 1 & II, Groups A, B, C & D Class II, Division I & II, Groups E, F & G Class III locations
Adjustments/Settings	100kΩ (fixed) Differential/Latching; 1-channel or 2-channel switch 2 seconds
Sensitivity (for resistive probes)	
Mode Selection	
Debounce Time Delay	
Input Characteristics	
Supply Voltage	120VAC nominal
Frequency	50/60 Hz
Output Characteristics	
Relay Output Rating (Form C):	180VA @ 120VAC, C150
Pilot Duty	5 Amps @ 120VAC
General Purpose	Phoenix Contact - Series MSTB plugs (or equivalent)
Depluggable Connector (included)	Output Relay Status Indicator
LED (green)	
General Characteristics	
Operating Temperature	-20° to 55° C (-4° to 131° F)
Maximum Input Power	2 W
Terminal Torque	6 in.-lbs.
Wire Gauge	12-20 AWG Solid or stranded
Standards Passed	IEC 61000-4-2, Level 3, 6kV contact, 8kV air IEC 61000-4-3, Level 3, 10V/m IEC 61000-4-4, Level 3, 4 kV input power terminals, 2kV input/output terminals
Electrostatic Discharge (ESD)	
Radio Frequency Immunity (RFI)	
Fast Transients	
Safety Marks	File #18-ISA070001-0
MSHA Evaluated	
Dimensions	3.5"H x 2.1"W x 3.2"D (D w/ out connector - 2.5")
Weight	9 oz.
Mounting Method	DIN Rail or Surface Mount (#6 or #8 screws)

## Enclosure Dimensions



## How to order:

Part Number: ISS-102C-M-LC



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