



Features:

- MSHA evaluated (Mine Safety and Health Administration)
- LED indicates output relay status
- Compact design
- Finger-safe terminals
- DIN rail or surface mountable
- Direct or inverted logic for 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 100k Ω threshold). The unit is configurable for pump-up or pump-down applications.

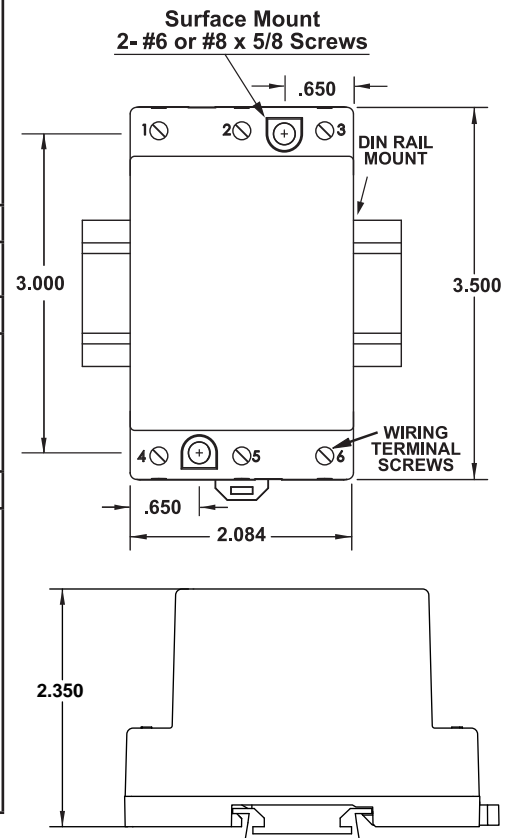
Each input channel is "active" when the corresponding switch is closed (or low resistance is detected, if using probes). When the LAG input (CH2) is activated, the output contact closes. Following latching/differential logic, the output contact remains closed until both the LEAD (CH1) and LAG (CH2) inputs 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 Direct or inverted 2 seconds
Sensitivity (for resistive probes)	
Mode Selection	
Input Logic	
Debounce Time Delay	
Input Characteristics	
Supply Voltage	120VAC nominal
Frequency	50/60 Hz
Output Characteristics	
Relay Output Rating:	
Form C	
Pilot Duty	180VA @ 120VAC, C150
General Purpose	5 Amps @ 120VAC
Depluggable Connector (included)	Phoenix Contact - Series MSTB plugs (or equivalent)
LED (green)	Output Relay Status Indicator
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	
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, 4 kV input power terminals, 2kV input/output terminals
Safety Marks	
MSHA Evaluated	File #18-ISA070001-0
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

