



Features:

- MSHA evaluated (Mine Safety and Health Administration)
- LEDs indicate output relay status
- Compact design
- Finger-safe terminals
- DIN rail or surface mountable
- Direct or inverted logic for pump-up or pump-down operations
- Selectable debounce time delay
- 5-year warranty
- Made in USA

SymCom's ISS-102CCI-M-MC (Multi-function Controller) is an intrinsically-safe switch for interfacing between hazardous and non-hazardous areas. It is user-configurable as a single or dual-channel switch, or pump-up/pump-down controller, and latching or non-latching relays. The intrinsically-safe inputs are compatible with normally open (N.O.) or normally closed (N.C.) switches, as well as resistive probes.

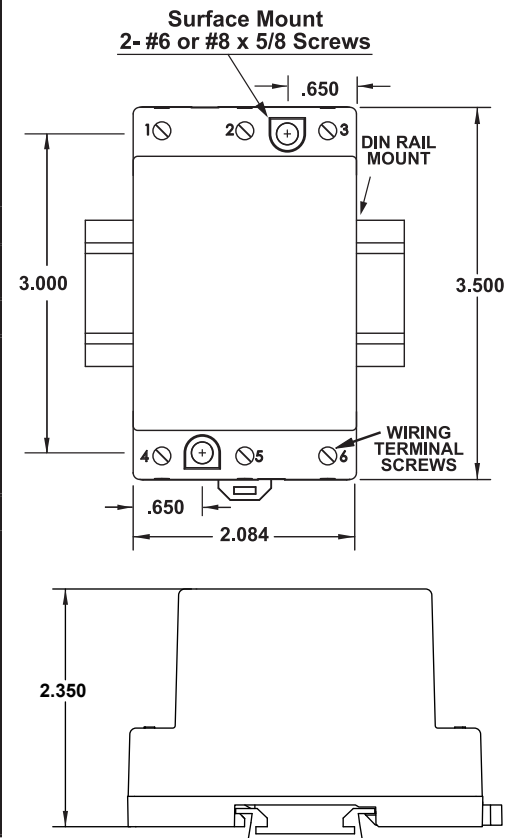
The unit's input logic can be either direct or inverted. Input debounce time delay is selectable to either 0.5 or 2 seconds. For pumping applications, differential/latching logic can be selected. Green LEDs illuminate on the ISS-102CCI-M-MC when the associated output relay is energized.

The unit has a 4.7k - 100k Ω sensitivity adjustment that allows the user to define the input impedance at which the relays will change state. One of the two Form C relays is isolated and the other operates off of the units' incoming 120VAC power.

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 | 4.7k - 100kΩ Differential/Latching; 1-channel or 2-channel switch Direct or inverted 0.5 or 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: | |
| 2 Relays: | |
| 1 Form C & 1 Form C (isolated) | |
| Pilot Duty | 180VA @ 120VAC, C150 |
| General Purpose | 5 Amps @ 120VAC |
| Depluggable Connector (included) | Phoenix Contact - Series MSTB plugs (or equivalent) |
| LEDs (green) | Output Relay Status Indicators |
| 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-102CCI-M-MC



(605) 348.5580 / (800) 843.8848 / Fax (605) 348.5685
customerservice@symcom.com / technicalsupport@symcom.com

Rev. 0310