MCIM / MCIM-COP / MMIM / MJIM
Single Channel Input Unit

Effective October 2019

Installation Instructions

CE 18
0905
DoP0244
DoP0253
EN54-17:2005
EN54-18:2005

Specification

	MCIM	MCIM-COP
Loop load - Quiescent Current (nom)	310 µA	310 µA
Operating Voltage	18.5 - 30 VDC	18.5 - 30 VDC
Inputs		
Trigger Resistance (nom)	5.6 kΩ	5.6 kΩ
End Of Line Resistor (nom)	22 kΩ	22 kΩ
Short Circuit Fault Threshold Resistance (max)	1 kΩ	1 kΩ
Open Circuit Fault Threshold Resistance (min)	33 kΩ	33 kΩ
Environmental		
Operating Temperature	-10 +60 °C	-10 +60 °C
Humidity (Non Condensing)	95 %RH	95 %RH
Physical		
Dimensions (mm)	63 x 35 x 18.5	63 x 35 x 18.5
Wiring cable (max)	1.5mm	1.5mm
Weight	> 0.1g	> 0.1g
Ingress Protection	IP40	IP40
Standards		
	EN54: Pt17 EN54: Pt18	EN54: Pt17 EN54: Pt18
Compatibility		
	Eaton analogue addressable fire systems (800 series protocol PR-200-07-400)	Eaton Open Protocol addressable Fire systems Open protocol 800 series protocol PR200-07-400)

If the unit needs to be installed in an environment that requires a higher IP rating then the unit must be installed in an appropriately rated enclosure, such as the Cooper IP65 rated ULBU enclosure.

Short circuit isolation

This addressable device contains an integral short circuit isolator, which operates between the – IN terminal and the – OUT terminal. The isolator operates in conjunction with the Control Panel when a low parallel resistance fault of typically 200Ω is present between the +VE and –VE of the loop wiring.

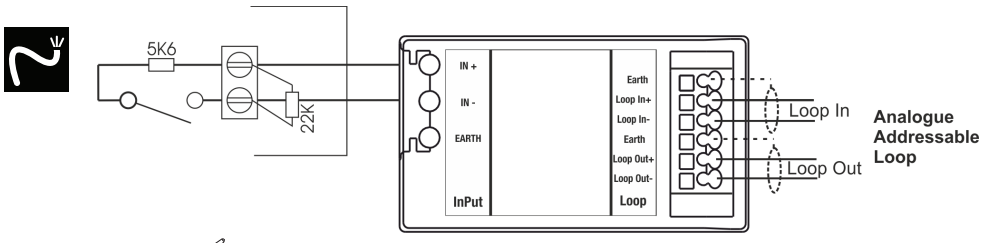
Short Circuit Isolation Data (Integral with each detector)	
Total Loop Resistance for correct operation of short circuit isolator	50Ω (max)
Parallel Fault Resistance to be seen at the Control Panel for isolators to open	200Ω (typ)
Continuous Current allowable through isolator	700mA (max)
Isolator Resistance in closed state	0.26Ω (max)
Leakage Current into direct short circuit with isolator open	14mA (max)
Voltage at which isolator changes from open to closed or closed to open state	3.8V to 11V
Maximum switching current to isolator	1.5A

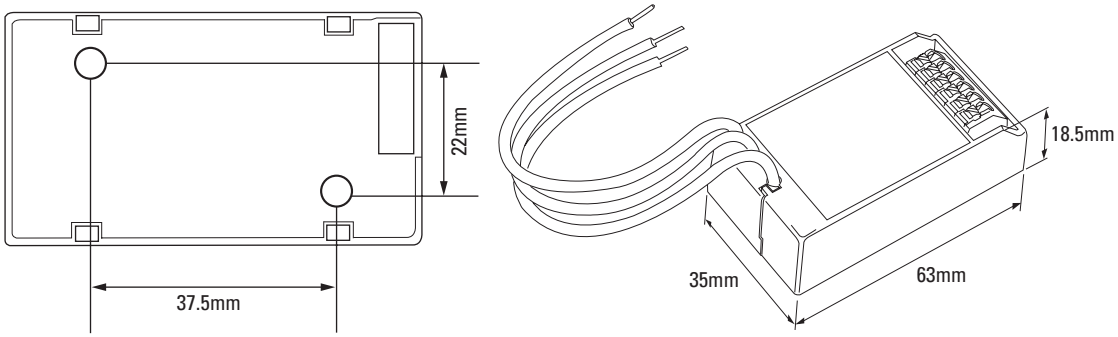
Installation

1. Fit the box in position using the mounting details below.
2. Connect the unit according to the diagram below.
3. Recommended Loop Cable Type: FIRETUF, FP200, MICC

Notes: No addressing of the interface is required. See control panel operation for details. There are no serviceable parts so no maintenance procedures apply.

1. Only connect cable screen to its adjacent earth terminal.
2. The end of line resistor must always be fitted, even if the inputs are unused.
3. Monitored inputs can detect open or short circuit faults.
4. MCIM-COP is only compatible with the COP3000 control panel.





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