

# Installation Instructions



## Specifications

Loop	Min	Nom	Max
Quiescent load current		2.8 mA	
Load with 20 Eaton detectors, unlimited call points		3.4 mA	
Alarm condition load, with 20 Eaton detectors, unlimited call points		8.0 mA	
Supply voltage	18 V		30 V

Call point zone	Min	Nom	Max
Number of call points per zone	0		Note 1
End of line resistance		5K1	
Fire input trigger resistance		680 Ω	
Short circuit fault threshold resistance			100 Ω
Open circuit fault threshold resistance	39 kΩ		

Detector zone	Min	Nom	Max
Number of detectors per zone	0		20
End of line resistance		5K1	
Fire input trigger resistance		680 Ω	
Short circuit fault threshold resistance			100 Ω
Open circuit fault threshold resistance	39 kΩ		

Environmental	Min	Nom	Max
Operating Temperature	-10°C		+60°C
Humidity (Non Condensing)			95%RH

Standards
EN54 : Pt17
EN54 : Pt18

Compatibility
Suitable for use with Eaton Analogue Addressable Fire Systems

Physical	
Dimensions	147 x 88 x 57 (mm)
Weight	0.25kg
Ingress Protection	IP40

## Short circuit isolator

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 Eaton analogue 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 device)

Total Loop Resistance for correct operation of short circuit isolator	50Ω (max)
Continuous Current allowable through isolator	700mA (max)
Isolator Resistance in closed state	0.13Ω (max)
Leakage Current into direct short circuit with isolator open	13mA (max)
Parallel Fault Resistance to be seen at the Control Panel for isolators to open	200Ω (typ)

## Installation

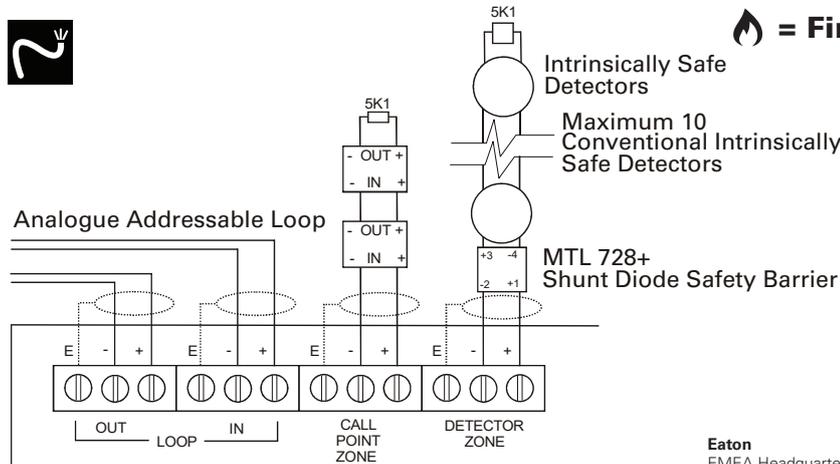
1. Separate the two halves of the unit.
2. Drill out (or knock out) the required cable entries in the surface mounting back-box.
3. Fit the back-box in position and pass the wires into it.
4. Connect the unit according to the diagram below.
5. Recommended Loop Cable Type: FIRETUF, FP200, MICC.

**Notes:** 1. Maximum number of call points allowed is unlimited.

**Notes:** 2. Detector zone end of line device is a Resistor (supplied)

**Notes:** 3. No addressing of the interface is required. See control panel operation for details.

1. This unit can only be used with Eaton intrinsically safe detector + base.
2. Only connect cable screen to its adjacent earth terminal.
3. The end of line resistor must always be fitted, even if the spur is unused.
4. Maximum spur length – See BS5839 Pt1:2001 for Zone Coverage.
5. Maximum number of call points allowed is unlimited.



**Eaton Electrical Systems Ltd.**  
 Wheatley Hall Road  
 Doncaster  
 DN2 4NB  
 TEL: +44 (0) 1302 303303  
 FAX: +44 (0) 1302 367155

**Eaton**  
 EMEA Headquarters  
 Route de la Longeraie 7  
 1110 Morges, Switzerland  
 Eaton.eu  
 TEL: +44 (0) 1302 321541  
 FAX: +44 (0) 1302 303220  
 Firesales@eaton.com  
 Firetechsupport@eaton.com

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