

Installation Instructions



EN54-17:2005+AC:2007
EN54-18:2005+AC:2007

Specification

Loop	Min	Nom	Max
Quiescent Load Current		2.6mA	
Load with 20 Eaton detectors, unlimited call points		3.2mA	
Alarm condition load, with 20 Eaton detectors, unlimited call points		8.0mA	
Supply voltage	18.5 V DC		30 V DC
Detector zone	Min	Nom	Max
Number of detectors per zone	0		20
End of line monitor	ACTIVE END OF LINE DEVICE		
Fire input trigger resistance		680Ω	
Short circuit fault threshold resistance			100Ω
Open circuit fault threshold resistance	39kΩ		
Environmental	Min	Nom	Max
Number of detectors per zone	-10°C		+60°C
Open circuit fault threshold resistance			95 %RH
Standards	EN54 : PT17		
EN54 : PT18			
Compatibility	Suitable for use with Eaton analogue addressable fire systems (800 series protocol pr200-07-400)		
Physical	Dimensions	Weight	Ingress protection
	63 x 35 x 18.5 (mm)	0.28kg	IP40

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 Eaton IP65 rated ULBU enclosure.

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 Addressable 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)
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

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

Standard connections

Notes:

1. This unit can only be used with Cooper FXN520 detector base and compatible detectors
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

Detector zone end of line device is EOLM-1 (supplied)



Maximum 20
Conventional
Detectors

