Installation instructions for: Zone monitor unit MIU872

CE 18
0359
DoP0246

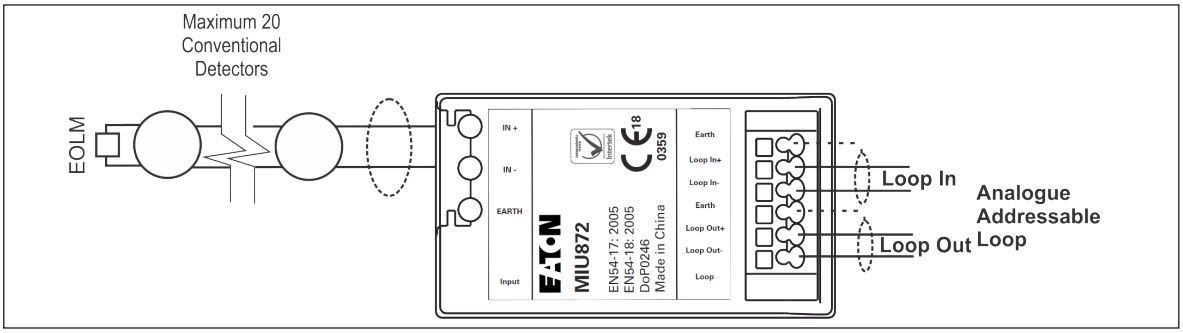
EN54-18:2005
EN54-17:2005

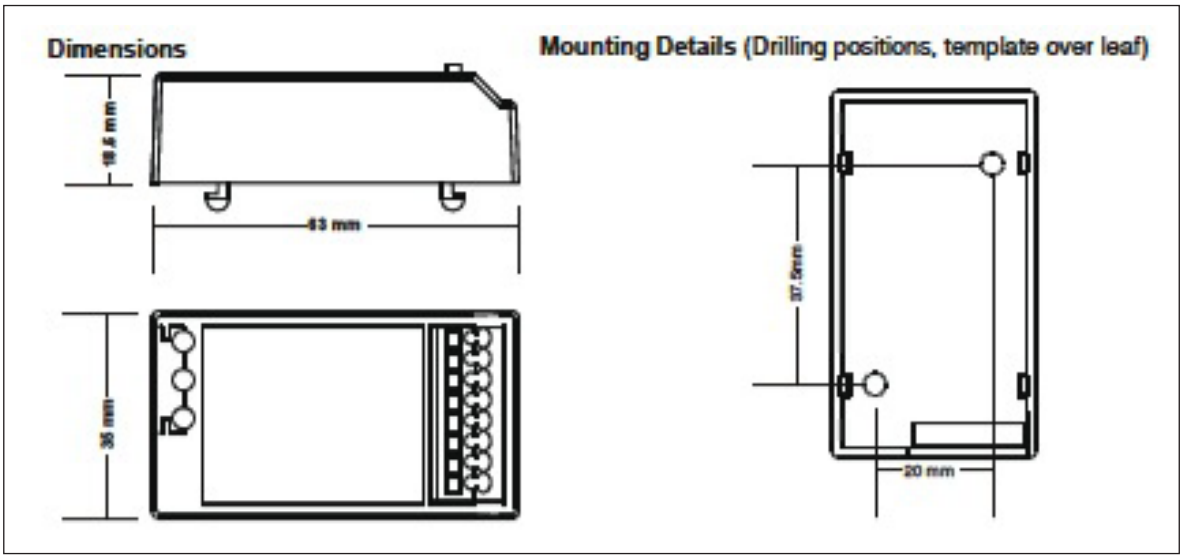
Installation

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.

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)

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Specifications

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

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