Technical Data **PR203-81-501-08** Effective January 2018

Installation instructions for: 230V relay unit CMIO353

CE 18

DoP0249

EN54-18:2005
EN54-17:2005

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Installation

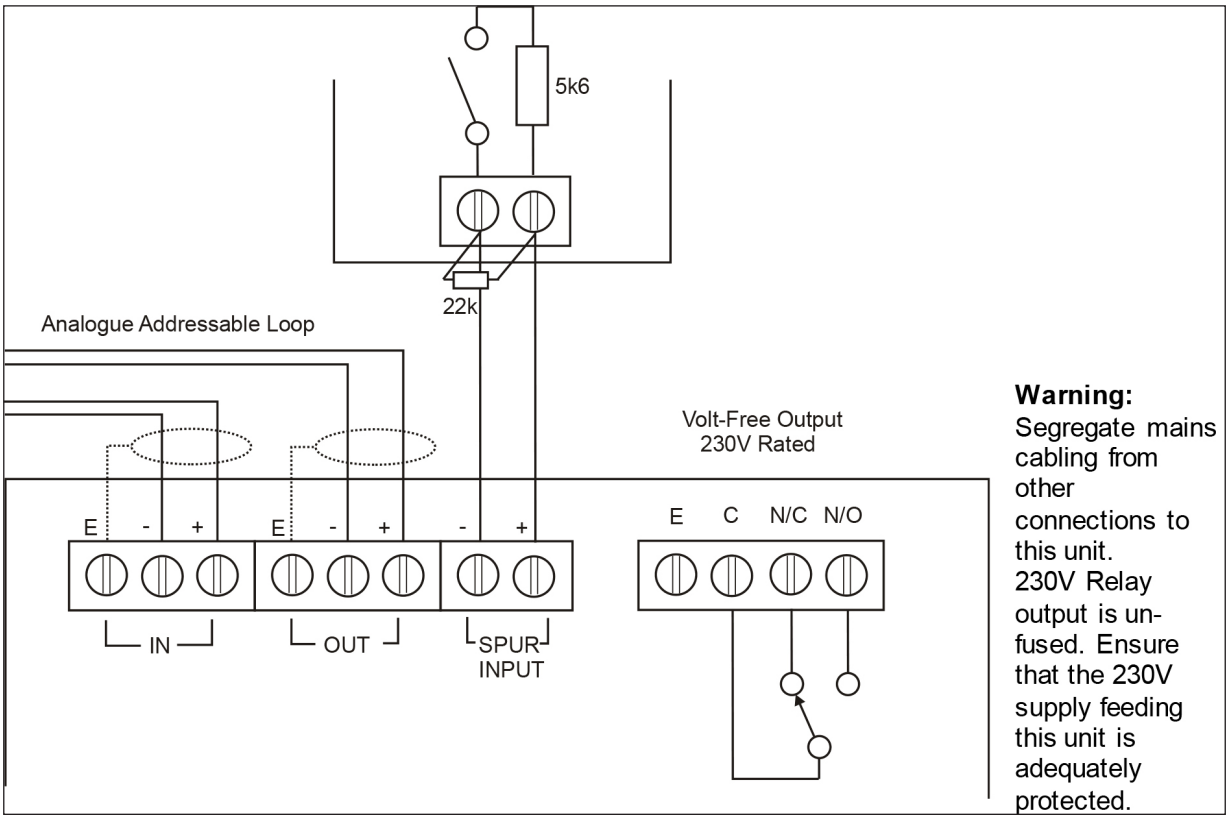
1. Separate the two halves of the unit
2. Drill out (or knock out) the required cable entries in the surface mounting back-box
3. Fit the back-box in position and pass the wires into it
4. Connect the unit according to the diagram below
5. Recommended Loop Cable Type: FIRETUF, FP200, MICC

Notes:

No addressing of the interface is required. See control panel operation for details.

There are no serviceable parts inside so no maintenance procedures apply.

Standard connections



Notes:

1. Only connect cable screen to its adjacent earth terminal
2. The end of line resistor must always be fitted, even if the spur is unused

Specifications

Loop load	Min	Nom	Max	Units
Quiescent current		310		µA
Operating voltage	18.5		30	V
Spur				
End of line resistance		22		kΩ
Fire input trigger resistance		5.6		kΩ
Short circuit fault threshold resistance			1	kΩ
Open circuit fault threshold resistance	39			kΩ

Output relay contact ratings				
Switching voltage AC		230	250	V AC
Switching voltage DC			30	V DC
Switching current			8	A
Switching power AC			2000	VA
Switching power DC			240	W

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	180 x 130 x 60 (mm)
Weight	0.5kg
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 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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