Installation Instructions for:
ZPCB2252-MMR Relay (Master) & ZPCB2252-MSRRelay (Slave)

Up to 96 outputs can be connected to ZPCB2252 MML & MSL .This offered more capability to the extensive options already offered by the DF6000/CF3000 Fire alarm control panel.
The ZPCB2252MML is the master PCB which can control up 32 outputs .If further output are required ZPCB2252MSL can daisy chain onto the master PCB offering a total outputs of 96.
Each slave control can control up to 32 outputs.
The Master board is loop driven and does required an external 1 Amp 24 Volts power supply.
The flexibility of these boards is further enhanced by the fact that each output can be programmed for fault or Fire with up 5 different zones or address per output.
This can be programmed using the DF6000/CF3000 programmable repeater software and downloaded using the RS232 port..
These boards are typical used for geographical LED mimic displays.

Loop powered Installation

1. Connect the unit according to the diagram below.
2. Recommended Loop Cable Type: FIRETUF, FP200, MICC
3. Boards have built in isolators

Notes:
If loop powered no addressing of the interface is required. See control panel operation for details.

Notes:
1. Only connect cable screen to its adjacent earth terminal
2. 24V External power supply is required

Specifications

Loop Load	Min	Nom	Max	Units
Quiescent Current		310		µA

Operating Loop Voltage	Min	Nom	Max	Units
	18		30	V DC

Inputs	Min	Nom	Max	Units
	4		20	mA
External PSU	15V		30V	V DC

Outputs	Min	Nom	Max	Units
Voltage		24	30	V DC
Current			10	mA

Compatibility
Suitable for use with Cooper Analogue Addressable Fire Systems

Physical	
Dimensions Master/Slave	140 x 290 (mm)
Weight Master/Slave	0.25kg

Connections

Addressable Loop

LED

RS485/232
NETWORK
LOOP

LOOP	NETWORK	RS485/232
2 - 1	4 - 3	6 - 5

JUMPER SETTINGS

24V External supply

LOOP COMMS
OUT   IN

LOOP

Network connection

RS 232

LED

CONNECTION BETWEEN
MASTER TO SLAVE OR SLAVE
TO SLAVE. MAXIMUM 7 SLAVES

LOOP COMMS
OUT   IN

Network connection
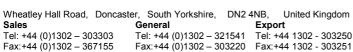
RS 232

PR206-131-501-03

Installation Instructions for:
ZPCB2252-MMR Relay (Master) & ZPCB2252-MSRRelay (Slave)
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)
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)