

J-NET-MPX-REL

Addressable Panel Multiplexed Zone Relay Outputs

Interface card that provides zone in Fire/ Fault indication via a voltage free change-over relay contact for each zone in any of GFE's Analogue Addressable Fire Detection Panels.

There is also a LED indication of FIRE/ FAULT condition for each individual zone. The LED RED indicator will be ON when the relay is active. These relay outputs are not monitored.

This module operates in three different modes:

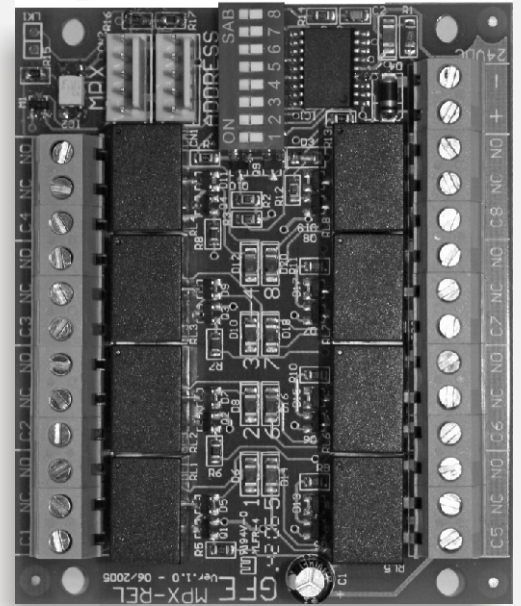
- 8 Zone Blocks - Indication of Fire for each zone.
- 4 Zone Blocks - Indication of Fire and Fault for each zone.
- System Status - Each relay output is assigned to a specific General System indication:
Fire, Fault, Pre-Alarm, Test, Disabled, Sounders ON, Auxiliary Outputs Disabled and Sounders Disabled.

In the first 2 modes the zone block is selected using the first 6 positions of the D.I.L. Switch to set the address. Switch 7 is used to select either 8 Zone/block FIRE indication (OFF) or 4 Zone/Block FIRE & FAULT indication (ON). By setting Switch 7 to OFF and selecting address 63 (Switches 1 to 6 are all in the ON position) the modules is set in SYSTEM STATUS mode.

When switch 7 is OFF the module address can be programmed in the range 0 to 47, providing FIRE zone indication in the range 1 to 384. If the same switch is set (ON) the address will specify a zone range from 1 to 256. Providing in this mode individual indication for each zone of FIRE and FAULT conditions.

The module requires an external 24 V DC supply which can be derived from one of the Panel's Auxiliary Supply Outputs. Alternatively the module can be powered from an external regulated 24VDC power supply.

Connection to either Juno Net or Junior Panels is via a 5 way flat cable fitted with Molex type polarised connectors. Two of these connectors are provided to enable connection of more than 1 module.



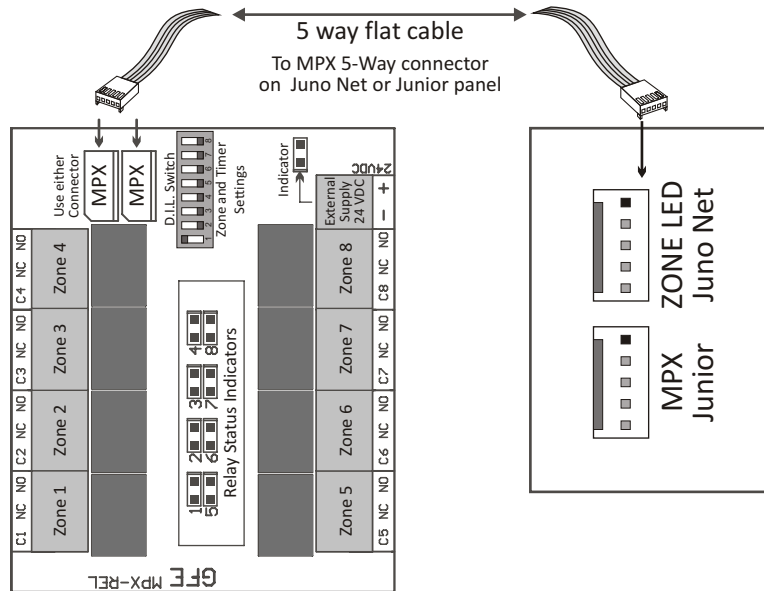
Features

- High Quality
- Compatible with GFE's range of Analogue Addressable Panels
- Easy to Install
- 8 Zone FIRE Indication
- 4 Zone FIRE & FAULT Indication
- Selectable System Status indication:
Fire, Fault, Pre-Alarm, Test, Disabled, Sounders ON, Disablement of Sounders and Auxiliary Outputs
- FIRE indication for 384 zones in 8 Zone/Block mode
- FIRE and FAULT indication for 256 zones In 4 Zone/ Block mode
- Possibility of Multi-Module Connection

Connections

Using the 5 way flat cable provided with the J-NET-MPX-REL, connect this board either to a Juno Net or Junior Analogue Addressable Panel. If using this module in conjunction with a Juno Net panel this connector is situated on the Juno Net Main Connector Board (J-NET-CON) and is labelled ZONE LED or if connecting this module to a Junior panel connect it to the connector labelled MPX. On the J-NET-MPX-REL both MPX 5-way Molex connectors can be used as they are connected in parallel on the PCB. Supply to the J-NET-MPX-REL is normally derived from the Panel's Auxiliary Supply Output but an external regulated and stabilized 24V DC supply can also be used.

Note: Remove power to both Panel and J-NET-MPX-REL before proceeding with any connections. Re-apply power after connections are complete and verified.

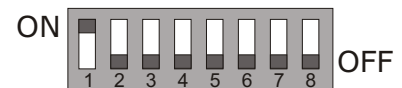


Switches - Binary Weights

- | | |
|---------|----------|
| SW1 - 1 | SW4 - 8 |
| SW2 - 2 | SW5 - 16 |
| SW3 - 4 | SW6 - 32 |

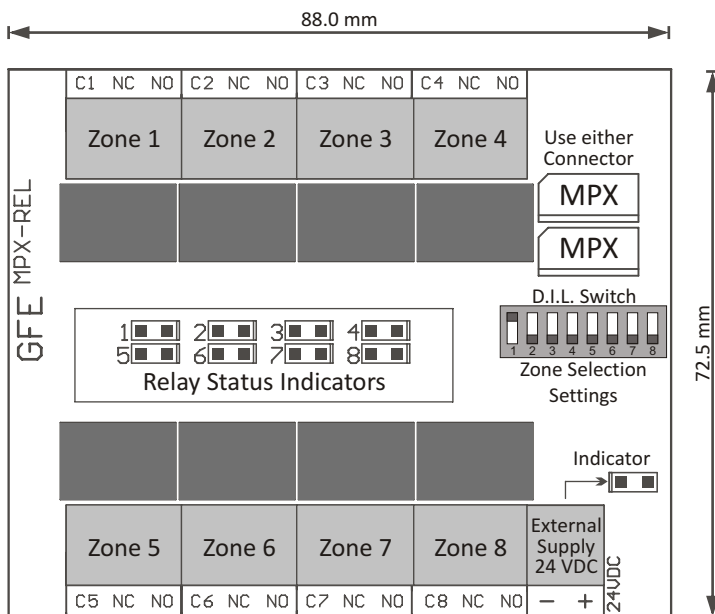
Switches 1-6
Selects zone block

Switch 7
Select FIRE or FIRE and FAULT



Switch 8 - Not used

Mechanical Specification



Technical Specifications

Operating Voltage	28V DC nominal
Current Consumption	
Quiescent	7 mA - No relays active
Zones in Alarm	7 mA + 15 mA per active relay
Zone Selection	D.I.L. Switch
Max. Humidity	95% RH Non-Condensing
Dimensions	0 °C to 50 °C
Weight	95 g

ORDER CODE	PRODUCT DESCRIPTION
J-NET-MPX-REL	Multiplexed Zone Relay Board

Global Fire Equipment Lda.

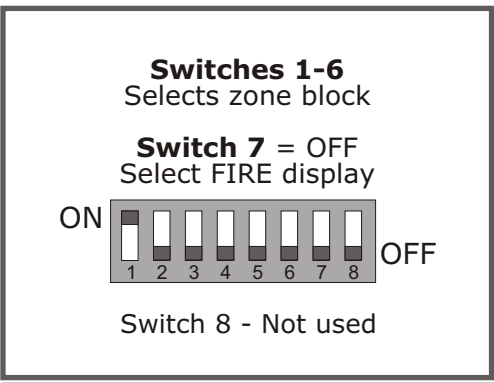
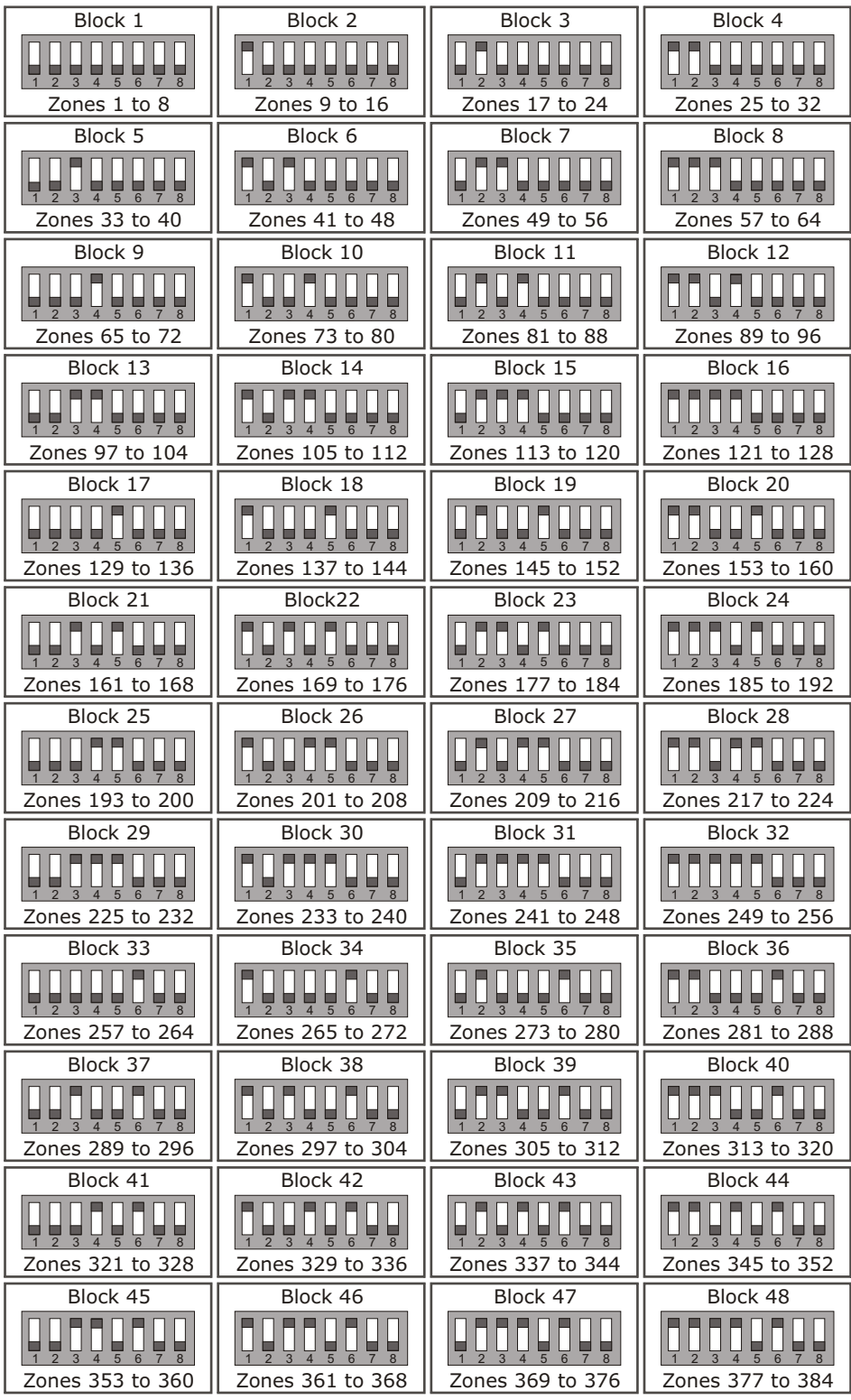
MARF - Armazens F3 e F4, Sítio do Guelhim, Estoi, 8009-021 FARO, PORTUGAL

Tel: + 351 289 896 560 Fax: + 351 289 865 587



Sales sales@globalfire.pt **Technical Support** techs@globalfire.pt

Zone Block Selection - 8 Zones per Block - Fire Indication Only



First Zone = Address x 8 + 1
Last Zone = Address x 8 + 8

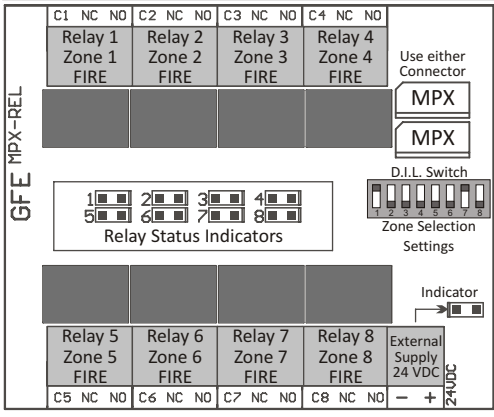
Example

Block = 5
Address = 4

First Zone = 4 x 8 + 1 = **33**
Last Zone = 4 x 8 + 8 = **40**

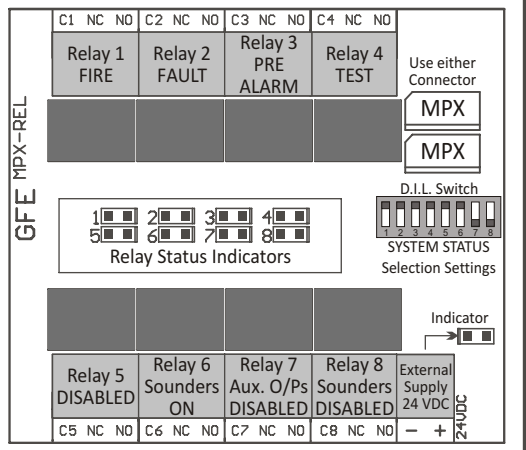
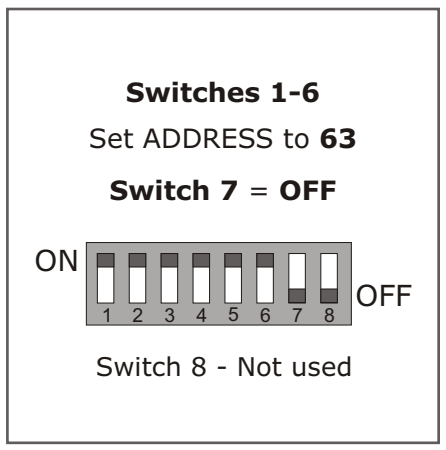
Zone	Relay	Fire	Zone	Relay	Fire
1	1		5	5	
2	2		6	6	
3	3		7	7	
4	4		8	8	

Note: The zone associated with each relay is always dependent on the address selected using the D.I.L. switch.



SYSTEM STATUS MODE

In order to set this module to provide indications of the general panel status set address to 63 as shown on the diagram on the left. Please note that these indications are representative of the general status of the panel and are not associated in any way to a particular device or zone.



Zone Block Selection - 4 Zones per Block - Fire & Fault Indication

Block 1 Zones 1 to 4	Block 2 Zones 5 to 8	Block 3 Zones 9 to 12	Block 4 Zones 13 to 16
Block 5 Zones 17 to 20	Block 6 Zones 21 to 24	Block 7 Zones 25 to 28	Block 8 Zones 29 to 32
Block 9 Zones 33 to 36	Block 10 Zones 37 to 40	Block 11 Zones 41 to 44	Block 12 Zones 45 to 48
Block 13 Zones 49 to 52	Block 14 Zones 53 to 56	Block 15 Zones 57 to 60	Block 16 Zones 61 to 64
Block 17 Zones 65 to 68	Block 18 Zones 69 to 72	Block 19 Zones 73 to 76	Block 20 Zones 77 to 80
Block 21 Zones 81 to 84	Block 22 Zones 85 to 88	Block 23 Zones 89 to 92	Block 24 Zones 93 to 96
Block 25 Zones 97 to 100	Block 26 Zones 101 to 104	Block 27 Zones 105 to 108	Block 28 Zones 109 to 112
Block 29 Zones 113 to 116	Block 30 Zones 117 to 120	Block 31 Zones 121 to 124	Block 32 Zones 125 to 128
Block 33 Zones 129 to 132	Block 34 Zones 133 to 136	Block 35 Zones 137 to 140	Block 36 Zones 141 to 144
Block 37 Zones 145 to 148	Block 38 Zones 149 to 152	Block 39 Zones 153 to 156	Block 40 Zones 157 to 160
Block 41 Zones 161 to 164	Block 42 Zones 165 to 168	Block 43 Zones 169 to 172	Block 44 Zones 173 to 176
Block 45 Zones 177 to 180	Block 46 Zones 181 to 184	Block 47 Zones 185 to 188	Block 48 Zones 189 to 192
Block 49 Zones 193 to 196	Block 50 Zones 197 to 200	Block 51 Zones 201 to 204	Block 52 Zones 205 to 208
Block 53 Zones 209 to 212	Block 54 Zones 213 to 216	Block 55 Zones 217 to 220	Block 56 Zones 221 to 224
Block 57 Zones 225 to 228	Block 58 Zones 229 to 232	Block 59 Zones 233 to 236	Block 60 Zones 237 to 240
Block 61 Zones 241 to 244	Block 62 Zones 245 to 248	Block 63 Zones 249 to 252	Block 64 Zones 253 to 256

Switches 1-6
Selects zone block

Switch 7 = ON
Select FIRE and FAULT display

ON OFF

Switch 8 - Not used

First Zone = Address x 4 + 1
Last Zone = Address x 4 + 4

Example

Block = 5
Address = 4

First Zone = 4 x 4 + 1 = **17**
Last Zone = 4 x 4 + 4 = **20**

Zone	Relay Fire	Relay Fault
1	1	5
2	2	6
3	3	7
4	4	8

Note: The zone associated with each relay is always dependent on the address selected using the D.I.L. switch.

C1 NC NO Relay 1 Zone 1 FIRE	C2 NC NO Relay 2 Zone 2 FIRE	C3 NC NO Relay 3 Zone 3 FIRE	C4 NC NO Relay 4 Zone 4 FIRE	Use either Connector MPX MPX
				Indicator External Supply 24 VDC + -
C5 NC NO Relay 5 Zone 1 FAULT	C6 NC NO Relay 6 Zone 2 FAULT	C7 NC NO Relay 7 Zone 3 FAULT	C8 NC NO Relay 8 Zone 4 FAULT	