PERTRONIC INDUSTRIES LTD
8-Way Common Relay Board Installation Note

Overview:

The **8-Way Common Relay Board** may be used with **F100A, F120A** and **F16e** panels, where clean contacts are required instead of open-collector outputs.

The board contains 8 single-pole changeover (form C) relays, each of which is operated from the panel's open-collector output.

The relay outputs may be isolated due to 'ACF Isolate' or 'Warning Isolate', using inputs provided from the panel's 'ACF' and 'WRN SYS' outputs. Each relay has three jumper links (+, A, W) provided to select the desired mode. **NOTE:** Only **ONE** jumper can be inserted at a time for each relay.

A 10-pin IDC connector connects the relay board to the fire alarm panel's open-collector output.

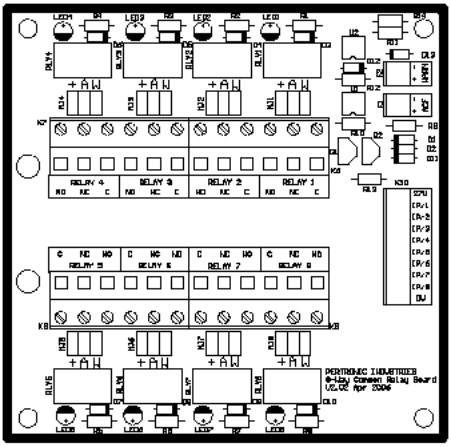
The relay contact connectors accept flexible stranded wire up to 1.5 mm^2 (2.5 mm^2 solid).

To reduce wiring congestion, the connectors on the PCB have been arranged so that the wiring loom flows from the edge of the board, to the centre and out to the connectors. Two holes are provided for cable ties to secure the loom.

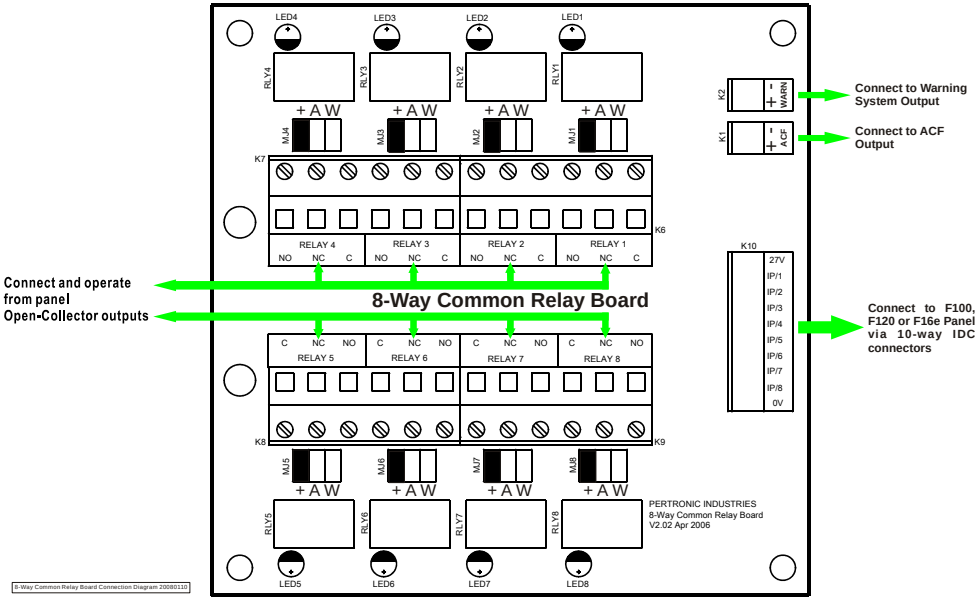
Specifications:

Dimensions:	93 x 92	W x H mm
Mounting Holes:	86.5 x 85	W x H mm
Operating Voltage	18 VDC to 30 VDC	
Operating Current:	8.5 mA per energized relay @ 27.4 VDC	
10-Way Connector (K10) Pin-Out:	Pin 1:	+27.4 VDC
	Pins 2-9:	Open-Collectors 1–8
	Pin 10:	0V
2-Way Connector (K1) Pin-Out:	Pin 1:	ACF –
	Pin 2:	ACF +
2-Way Connector (K2) Pin-Out:	Pin 1:	WARN –
	Pin 2:	WARN +
Relay Contacts:	1 A @ 30 VDC, resistive load, single form C	

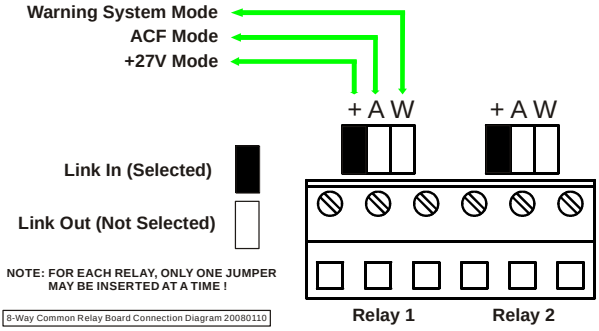
Diagram:



Connection Diagram:



Links:



Open-Collector	**OFF**	**ON**				**ON**				**ON**			
Link	**+/A/W**	**+**				**A**				**W**			
Warn Sys Relay	OFF/ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON
ACF Relay	OFF/ON	OFF	OFF	ON	ON	OFF	OFF	ON	ON	OFF	OFF	ON	ON
Relay Output	**OFF**	**ON**	**ON**	**ON**	**ON**	**OFF**	**OFF**	**ON**	**ON**	**OFF**	**ON**	**OFF**	**ON**
Note: When the **A** or **W** link is selected, operation of the relay requires the appropriate ACF or Warn Sys relay to operate at the panel.													

Ordering Information:

Product Code	Description
8WCOMR	8 Way Common Relay Board