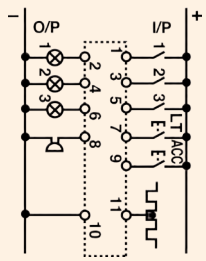
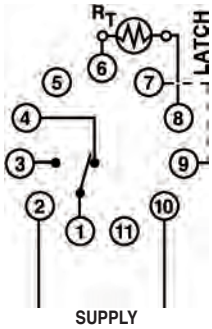
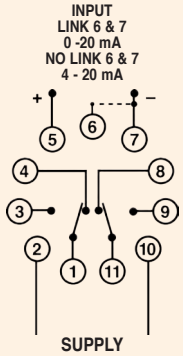
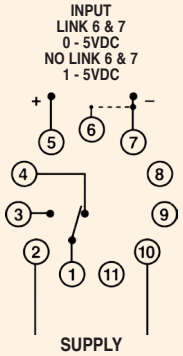
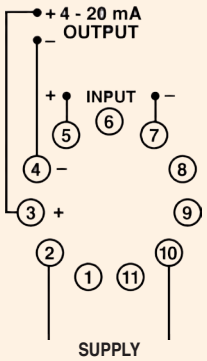
		FAILSAFE DESIGN 						
Type	**Alarm Relay 3I/P / 3O/P**	**Thermistor Relay**	**Single & Dual Alarm Relay**		**Differential Relay**		**Signal Converter**	
Code	**AL3**	**TH1**	**SAR1**	**DAR2**	**DIR**	**DIRV**	**SIC1†**	**SIC2†**
Outputs	4 x SPST	SPDT	SPDT	DPDT	SPDT		4-20mA	0-10V
Operation Mode	On closing of any input contact, the corresponding output relay and hooter will energise. By using a common flasher connect to Pin 11 lamp 1 will flash. By pressing the accept button the lamp will steady and remain on until the fault is removed, and the hooter will stop. More alarms can be added by merely commoning up more modules with no restriction. Pins to be common when expanding; 11,10, 9, 7 and common of hooter.	The relay is normally energised, when one of the thermistors reaches tripping temperature the relay de-energises. The relay will energise when the temperature drops to below trip level. **Latch facility** Link Pins 7-9. Relay remains de-energised after tripping. To reset, break supply voltage or operate N/C external reset device connected to Pins 7-9.	**SAR1: Single trip point** **DAR2: Two trip point** (2 relay outputs independently adjustable) The relay is normally de-energised and will energise when the input signal reaches the set level, set by a potentiometer. The relay will de-energise when the input signal drops below the set level by 3% The second alarm relay operates the same but set at a different trip level.		This module provides a relay output with high and low set points from an analogue instrument signal. The output relay will energise on the high set point and de-energise on the low setpoint offering a wide adjustable differential. When more than one unit is used in series and the supply is DC, an isolator must be used for each unit: **ISO-12VDC** **ISO-24VDC**		The Signal Converter modules convert various input signals to a 4-20mA or 0-10V DC signal. They are intended for use with all PLC and other instrumentation systems. **†Input selection** **A:** 0-5 Amps AC/DC **B:** 0-1 Amps AC/DC **R:** Ohms **V:** Voltage range AC/DC **Calibration:** For field calibration, energise module and set input to maximum. Adjust SPAN until output is 20mA/10V. Set input to minimum requirement and adjust ZERO until output is 4mA/0V. Calibration is complete. Red LED: Power on.	
Connection Diagram								
Specification	Lamp test Pin 7 Alarm accept Pin 9 Hooter Pin 8 To be utilised with relay flasher **RFP1** to Pin 11	Tripping resistance 1.2kΩ No. of thermistors to be connected in series not to exceed 1kΩ	Input signal: 4 - 20mA 0 - 20mA or 0 - 5VDC 1 - 5VDC		Input signal: 4 - 20mA 0 - 20mA } **DIR** or 0 - 5VDC 1 - 5VDC } **DIRV**		Inputs: **SIC*A:** 0-5 Amps, AC/DC **SIC*B:** 0-1 Amps, AC/DC **SIC*R:** 1-20kΩ **SIC*V 10V:** 0-10V, AC/DC **SIC*V 150V:** 0-150V, AC/DC **SIC*V 300V:** 0-300V, AC/DC **SIC*V 600V:** 0-600V, AC/DC * 1: for 4-20mA. 2: 0-10V output	
Power Consumption	DC: 600mA @12VDC	AC ± 1.5VA						
Supply AC	Not Available	Galvanic isolation with internal transformer 12, 24, 48, 115, 230, 400, 525VAC ±15% (Test volts 2kV)						
Supply DC	12, 24VDC, 48VDC	12, 24, 48VDC						
Contact Rating	SPDT: 10A @ 250VAC DPDT: 5A @ 250VAC							

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