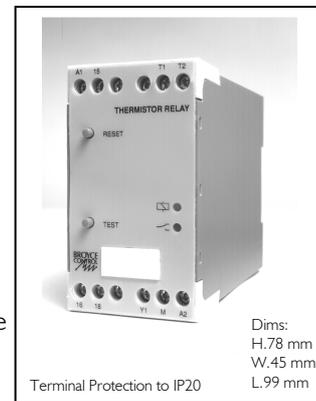


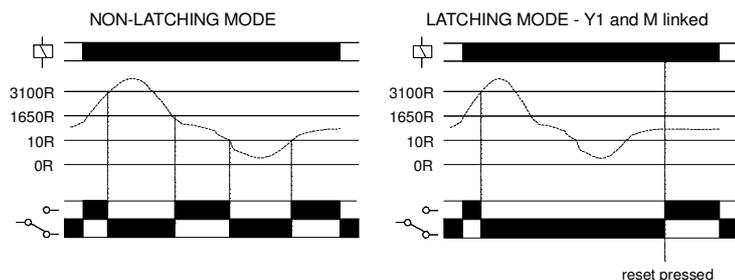
Type: 45200

Thermistor Relay

The unit monitors equipment which have in-built PTC thermistors to DIN 44081. The unit will monitor upto 6 thermistors in a chain. When power is applied, the green 'supply on' LED illuminates, the relay energises and red 'relay' LED illuminates, provided the resistance of the thermistors is below the release level. If the resistance of the thermistors rises above the release level or a short circuit occurs the relay will de-energise and red LED extinguish. If terminals Y1 and M are linked together, the unit remains latched until the reset button is pressed, the link or the supply is removed.



TIMING DIAGRAM



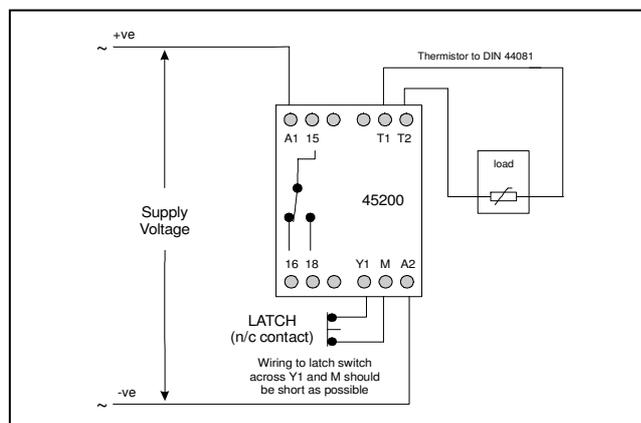
INSTALLATION AND SETTING

BEFORE INSTALLATION, ISOLATE THE SUPPLY. Connect the supply and the thermistor(s) as shown in the diagram below. Apply power and the green 'supply on' and the red 'relay' LED's should illuminate. If this does not occur, isolate the supply and check the connections to the thermistor of the machine being monitored and the supply connections to the unit. If the latching facility is required, then connect a link or a normally closed push button across terminals 'Y1' and 'M'.

Note: 1. The unit also has a built in 'reset' button which is used in conjunction with terminals 'Y1' and 'M' being linked and a 'test' button which is used to simulate a fault.

2. If the unit is required to detect a short circuit condition, ensure that the actual resistance of the wires connected to the thermistor(s) is less than 10 Ω. This can be usually prevented by keeping the wires as short as possible.

CONNECTION DIAGRAM



TECHNICAL SPECIFICATION

Auxiliary Supply Un:	24V, 110V, 230V AC 48 - 63Hz (Galvanic isolation by transformer)
Supply Variation:	85 - 115% of Un
Isolation:	Overvoltage cat. III (IEC 664)
Power Consumption:	≈ 3VA
Max Resistance of cold sensors:	1500 Ω (i.e. 1 to 6 sensors can be connected)
Release Value:	3100 Ω ±10% (in accordance with DIN 44081)
Reset Value:	1650 Ω ±10%
Short Circuit Detection:	0 to 10 Ω
Response Time:	≈ 50mS
Reset Time:	≈ 350mS
Temperature Range:	-20 to +60°C
Relative Humidity:	+95%
Contact Rating:	SPDT AC 1 250V AC 10A (2500VA) AC 15 250V AC 6A DC 1 25V DC 10A (250W)
Electrical Life:	Minimum 150,000 ops at rated load
Housing:	Orange flame retardant UL94 VO
Weight:	234g
Mounting Option:	Onto 35mm symmetric DIN rail to BS5584:1978 (EN50 002, DIN 46277-3)
Terminal Conductor Size:	Max 2 x 1.5mm ² stranded (terminated) Max 2 x 2.5mm ² solid
Approvals:	Conforms to: UL, CUL, CSA, IEC. CE Compliant

MOUNTING DETAILS

