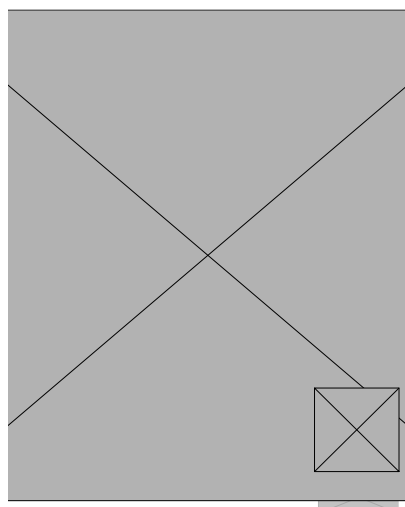




PTC-Resistor Relay Type MSR220K6

6 PTC-Circuits



Part number:

T228128

AC/DC 24-240 V

The MSR220K6 monitors up to 6 PTC-resistor sets with up to 6 PTCs each at the same time. If a temperature rise occurs in one set, the output relay releases and LEDs show the overheated sensor.

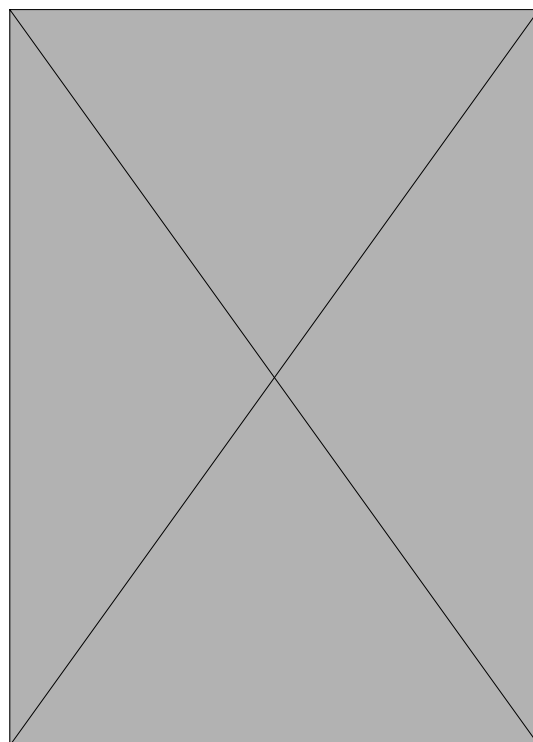
Switching-off is stored until a Reset. Thus enables to find the overheated sensor even when it has cooled down.

With the MSR220K6 only 4 mm space is needed per monitored PTC-circuit.

It is especially suitable for monitoring drives with multiple motors, like cranes or robots.

Instead of the PTC-sensors also contacts (normally closed) can be connected.

- 6 PTC-resistor sets, each 1...6 PTC
- Monitoring of short-circuit of sensor
- Output relay 1 x change-over contact
- Electronic reclosing lock (disconnectable with bridge)
- Input for external RESET
- Automatic RESET at voltage recovery
- LED for power on (green)
- 6 LEDs for display of overheated sensor
- Universal supply voltage AC/DC 24-240 V
- UL Recognized Component



Technical Data

Rated supply voltage U_s :	AC/DC 24-240 V	0/50/60 Hz
Tolerance	AC 20 - 264 V	DC 20,4 - 264 V
Power consumption	< 5 VA	< 3 W
Output relay K1, K2 (Alarm 1, 2)	1 change over contact	
Switching voltage	max. AC 415 V	
Switching current	max. 5 A	
Switching power	max. 1250 VA (resistive Load)	
	max. 48 W bei DC 24 V	
Reduction factor at $\cos \varphi 0,7$	0,5	
Rated operational current I_e	AC15 $I_e = 1 A U_e = 400 V$	
	AC15 $I_e = 2 A U_e = 250 V$	
	DC13 $I_e = 2 A U_e = 24 V$	
	DC13 $I_e = 0,2 A U_e = 125 V$	
	DC13 $I_e = 0,1 A U_e = 250 V$	
Recommended fuse	T 3,15 A (gL)	

Contact life mechanical	1 x 10 ⁷ operating cycles
Contact life electrical	1 x 10 ⁵ operating cycles at AC 250 V / 5 A
	2 x 10 ⁵ operating cycles at AC 250 V / 3 A
	6 x 10 ⁵ operating cycles at AC 250 V / 1 A
UL electrical ratings	250 V ac, 3 A, general use
	240 V ac, 1/4 hp, 2.9 FLA
	120 V ac, 1/10 hp, 3.0 FLA
	C 300

Test conditions	EN 60947-8		
Rated impulse voltage	4000 V		
Overvoltage category	III		
Pollution degree	3		
Rated insulation voltage Ui	250 V		
On-period	100 %		
EMC-tests			
Emission	EN 61000-6-3		
Immunity	EN 61000-6-2		
SElectrical fast transient/Burst	EN 61000-4-4 ±4 kV		
	Pulse 5/50 ns, f = 5 kHz, t = 15 ms, T = 300 ms		
SURGE immunity	IEC 61000-4-5 ±2 kV		
	IEC 61000-4-2 ± 6 kV contact discharge, ± 8 kV over air		
Electrostatic discharge	EN 60068-2-2 dry warmth		
Vibration resistance	10 g 30 ... 150 Hz		
Shock resistance	10 g 11 ms		
Reliability - failure rate	EN 61709 / SN29500		
Ambient conditions	Local operation in dry rooms		
Operation time 24/7/365	8760 h/a		
Tu = Tref (component not in operation)	Tu = 40 °C	Tu = 60 °C	Tu = 80 °C
Failure rate (FIT)	519 FIT	1052 FIT	2371 FIT
	100 (219) years	100 (108) years	48 years
Installation conditions			
Permissible ambient temperature	- 20 °C ... + 55 °C		
Permissible storage temperature	- 20 °C ... + 70 °C		
Installation height	≤ 2000 m over N.N.		
Climatic conditions	5-85% rel. F, no condensation		
Permissible wiring temperature	-5 °C ... +60 °C		
Contact termination	Push-In spring-type terminal		
Protection class terminals	IP20		
Actuation type	Push-Button		
Number of levels	1		
Solid conductor	1 x 0,14 mm ² ... 1,5 mm ² / AWG 28 ... 16		
Fine-stranded conductor	1 x 0,14 mm ² ... 1,5 mm ² / AWG 26 ... 14		
Fine-stranded with insulated ferrule	1 x 0,25 mm ² ... 0,75 mm ²		
Fine-stranded with uninsulated ferrule	1 x 0,25 mm ² ... 1,5 mm ²		
Strip length	8 ... 9 mm / 0.31 ... 0.35 inches		
Housing	Type K		
Dimensions (W x H x D)	22,5 x 75 x 115 mm		
Width	1 M		
Protection class housing	IP40		
IK-Code	IK06 (1 J impact energy)		
Mounting	Snap mounting on 35 mm standard rail EN60715 or M4 screws (additional bar not included)		
Mounting position	any		
Weight	app. 87 g		

Subject to technical changes