RM34 TEMPERATURE RELAY

RM3424.012
TEMP.RELÄ PT100,-50-200°C,24DC

- 4 temperature ranges -50...+200ºC for PT100 sensor
- Adjustable time delay
- Kaksi lähtörelettä ja invertointimahdollisuus



PRODUCT DESCRIPTION

RM34 relay is used for temperature metering. Features a Pt100 sensor (DIN43760) with 2 or 3 wires. You can select between 4 metering ranges. Relay activation, inversion and delay are adjusted by DIP switches in the bottom of the relay. Relay will release in the occasion of short-circuit or cable breakage.

Technical data

Supply	12 – 50 V DC or 230 V AC
Isolation voltage	Supply-input-output 3,75 kV
Power consumption	3 VA
Temperature range	-20 °C...+60 °C
Temp. coefficient	<0,01 %/ºC
Indications	Green LED steady: supply ON and input OK Green LED flashing: input OK. input signal ouside the range or cable defect Red LED: Relay active
DIP-switches	S1-S2: relay inversion and reaction delay, see table and functional diagram S3-S4: Selection of metering range, see table
Potentiometers	Pot 1 setpoint , 0-100% of the range Pot 2 reaction delay, 0-10 seconds
Hysteresis	1 °C
Sensor connections	6-7 Pt100 5 cable compensation
Max. load, relay	relay 1 (1-3-4) 8 A – 250 V AC relay 2 (11-8-9) 5 A – 250 V AC

Weight	190 g
EMC	EN50081-1, EN50082-2, EN60730, CE

SW 1	SW 2	ex. no.	Function
Off	Off	1	Relay activates, when setpoint is exceeded, delay on release.
On	Off	2	Relay releases, when setpoint is exceeded, delay on activate.
Off	On	3	Delay on activate, when setpoint is exceeded.
On	On	4	Delay on release, when setpoint is exceeded.
SW 3	SW 4	Mittausalue	
Off	Off	-50 °C...+50 °C	
On	Off	0 °C...100 °C	
Off	On	50 °C...150 °C	
On	On	100 °C...200 °C	

Measurements

Connection diagram

Order numbers

Order number	Description	Supply
RM3421.230	Temperature relay	230 V AC
RM3424.012	Temperature relay	12-50 V DC

SPECIFICATIONS

IP Class	IP20

Power Supply DC min	12 V
Power Supply DC max	50 V
Temperature resistance housing from	-20 °C
Temperature resistance housing to	60 °C
Weight	190 g

Approvals	CE, EMC
Depth	74 mm
Hysteresis Temperature	1.5
Width	38 mm
Height	76 mm
Materials Cover	Noryl
Mounting	DIN rail



