

Thermostat TER-3

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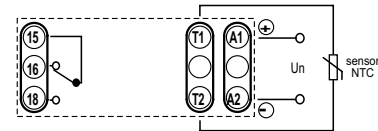
- ▶ Single thermostat controlling temperature between -30 .. +70 °C, 3 ranges
- ▶ Application e.g. in a switch board, heating, cooling application etc.
- ▶ Standard length of externals sensors 3 m, 6 m and 12 m. Available also 25 m.
- ▶ Sensor can be fixed straight to terminal - monitoring temperature in switch board
- ▶ Adjustable function of "heating" / "cooling"
- ▶ Supply AC 24 - 240 V / DC 24 V
- ▶ Monitors short circuit or sensor disconnection
- ▶ Adjustable hysteresis (sensitivity) of switching
- ▶ Output contact: 1x changeover 16 A / 250 V AC1
- ▶ LED output indication
- ▶ 1-MODULE, DIN rail mounted

- ▶ für Überwachung und Regulierung der Temperatur: -30 .. +70 °C in 3 Bereichen
- ▶ Universalbenutzung für Temperaturüberwachung
- ▶ Standardlänge von Externfühlern: 3 m, 6 m und 12 m, zur Verfügung max. 25 m
- ▶ Fühler kann direkt zum Klemmkasten angeschlossen werden
- ▶ Funktion: "Heizung" / "Kühlung" (Einstellung durch DIP-Schalter)
- ▶ Universal Versorgungsspannung AC 24 - 240 V/DC 24 V
- ▶ Kurzschlußüberwachung des Fühlers
- ▶ Hysterese (Sensibilität) - einstellbar
- ▶ Ausgangskontakt: 1x Wechsler 16A/250V AC1
- ▶ Ausgangsanzeige: LED rot
- ▶ Modul-Ausführung: (1-MODUL), DIN-Schiene

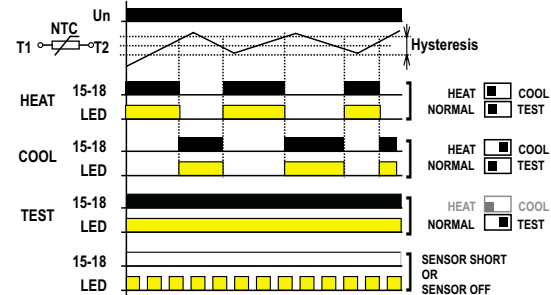
Technical parameters Technische Daten

		TER-3
Function:	Funktionen:	single level
Supply terminals:	Versorgungsklemmen:	A1 - A2
Supply voltage:	Versorgungsspannung:	AC 24 - 240 V/DC 24 V (AC 50-60 Hz)
Consumption:	Leistungsaufnahme:	2 VA
Measuring circuit	Meßkreis	
Measuring terminals:	Meßklemmen:	T1 - T2
Temperature range:	Temperaturbereich:	TER-3A -30 .. +10 °C TER-3B 0 .. +40 °C TER-3C +3 0 .. +70 °C
Hysteresis:	Hysterese:	adjustable in range 0.5 .. 5 °C
Sensor:	Fühler:	thermistor NTC 12 kW, types see page 65
Sensor fault indication:	Fühlerstörungsanzeige:	flashing red LED
Accuracy	Genauigkeit	
Setting accuracy (mech.):	Einstellungsgenauigkeit:	5 %
Switching difference:	Wiederholgenauigkeit:	0.5 °C
Temperature dependence:	Abhängung von Temperatur:	< 0.1 % / °C
Output	Ausgang	
Number of contacts:	Anzahl der Wechsler:	1x changeover, AgNi
Rated current:	Nennstrom:	16 A / AC1
Breaking capacity:	Schaltleistung:	4000 VA / AC1, 384 W / DC
Inrush current:	Höchststrom:	30 A / <3 s
Switching voltage:	Schaltspannung:	250 V AC1 / 24 V DC
Min. breaking capacity DC:	Min. Schaltleistung DC:	500 mW
Output indication:	Ausgangsanzeige:	red LED
Mechanical life:	Mechanische Lebensdauer:	3x10 ⁷
Electrical life:	Elektrische Lebensdauer:	0.7x10 ⁵
Operating temperature:	Umgebungstemperatur:	-20 .. +55 °C
Storage temperature:	Lagerstemperatur:	-30 .. +70 °C
Electrical strength:	Elektrische Festigkeit:	4 kV (supply - output)
Operating position:	Arbeitsstellung:	any / wahlfrei
Mounting:	Befestigung:	DIN rail EN 60715
Protection degree:	Schutzart:	IP 40
Overvoltage category:	Spannungsbegrenzungsklasse:	III.
Pollution degree:	Verschmutzungsgrad:	2
Max. cable size:	Anschlußquerschnitt:	2.5 mm ²
Dimensions:	Abmessung:	90x17.6x64 mm, see page 76, 78
Weight:	Gewicht:	65 g
Standards:	Normen:	EN 60730-2-9, EN 61010-1

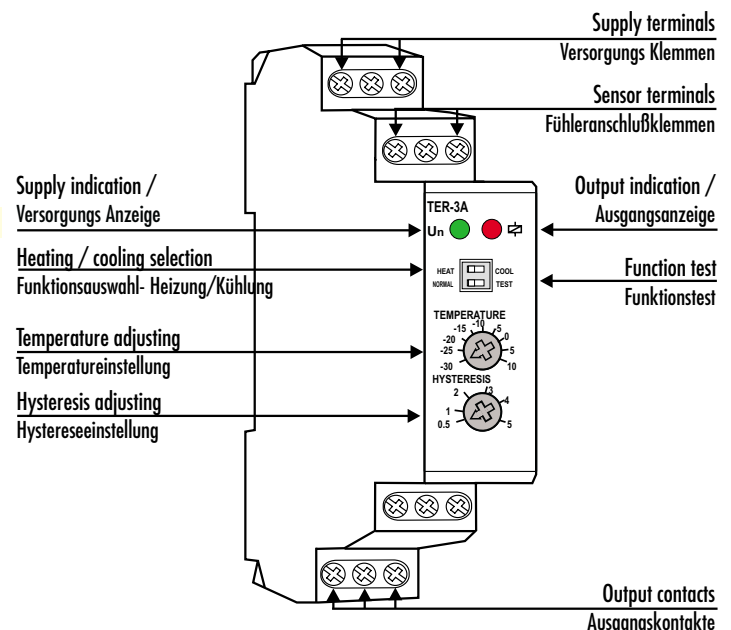
Connection / Schaltung



Functions / Funktionen



Description / Beschreibung



It is simple, practical thermostat for controlling of temperature with separated sensor. Device is located in switchboard and extern sensor scan temperature of required room, object or liquid. Supply is not galvanically separated from sensor but sensor fulfil double isolation requirement with its performance. Maximal length of sensor is 12 m, but it can be extend up to 25 m. Device has built in protection against sensor damage. It means that by breach or short circuit blinks red LED. Hysteresis enable adjustment of bandwidth and herewith detects switching sensitivity of load.