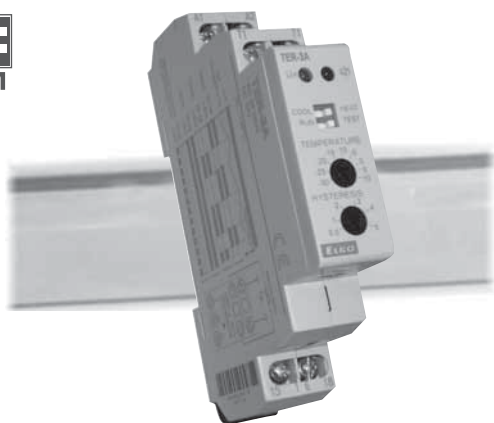


Thermostats line TER-3 (A, B, C, D, G, H)



1M

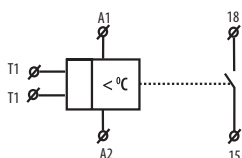


- ! single thermostat for temperature monitoring and regulation in range $-30..+70^{\circ}\text{C}$ in six ranges
- ! can be used for monitoring temperature e.g. in switchboards, heating systems, cooling systems, liquids, radiators, motors, devices, open spaces, etc.
- ! function of short-circuit or sensor disconnection monitoring
- ! possibility to set function "heating"/"cooling" (setting is done by DIP switch)
- ! adjustable hysteresis (sensitivity) , switching by potentiometer in range 0.5 -5 K
- ! choice of external thermo sensors with double insulation in standard lengths 3, 6 and 12 m (see accessories pg. 122)
- ! it is possible to place sensor directly on terminal block – for temperature monitoring in a switchboard or in its surroundings
- ! multivoltage supply AC/DC 24 -240 V, not galvanically separated
- ! output contact 1x NO 16 A /250 V AC1
- ! red LED indicated status of output, green LED indicates energization of the device
- ! 1-MODULE, DIN rail mounting

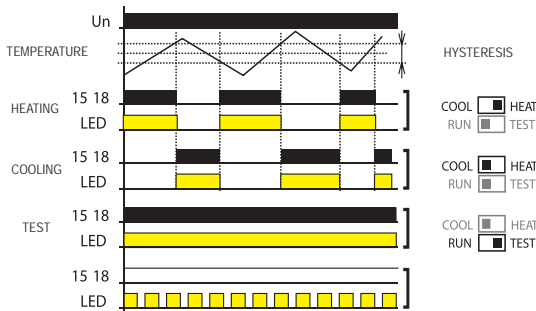
Technical parameters: TER-3

Function:	single level
Supply terminals:	A1-A2
Supply voltage:	AC/DC 24 -240 V (galvanically unseparated)
Consumption:	2 VA
Supply voltage tolerance:	- 15 %; + 10 %
Measuring circuit	
Measuring terminals:	T1 - T1
Temperature range: (according to product type sensitivity)	TER - 3A $-30..+10^{\circ}\text{C}$ TER - 3D $0..+60^{\circ}\text{C}$ TER - 3B $0..+40^{\circ}\text{C}$ TER - 3G $0..+60^{\circ}\text{C}$ TER - 3C $+30..+70^{\circ}\text{C}$ TER - 3H $-15..+45^{\circ}\text{C}$
Hysteresis:	ajustable in range 0.5.. 5 K
Sensor:	external, termistor NTC, except for TER-3G (PT100)
Sensor fault indication:	flashing red LED
Accuracy	
Setting accuracy (mech.):	5 %
Switching difference:	0.5 $^{\circ}\text{C}$
Temperature dependence:	< 0.1 % / $^{\circ}\text{C}$
Output	
Number of contacts:	1x NO (AgSnO ₂)
Rated current:	16A / AC1, 10A / 24V DC
Breaking capacity:	4000 VA / AC1, 300 W / DC
Switching voltage:	250 V AC1 / 24 V DC
Min. breaking capacity DC:	500 mW
Output indication:	red LED
Mechanical life:	3x10 ⁷
Electrical life (AC1):	0.7x10 ⁵
Other information	
Operating temperature:	- 20 .. +55 $^{\circ}\text{C}$
Storage temperature:	- 30.. +70 $^{\circ}\text{C}$
Electrical strength:	4 kV (supply - output)
Operating position:	any
Mounting:	DIN rail EN 60715
Protection degree:	IP 40 from front panel
Overvoltage category:	III.
Pollution degree:	2
Max. cable size (mm ²):	solid wire max. 2x 2.5 or 1x4 with sleeve max. 1x2.5 or 2x 1.5
Dimensions:	90x17.6x64 mm, see page 157-159
Weight:	73 g
Standards:	EN 60730-2-9, EN 61010-1

Symbol



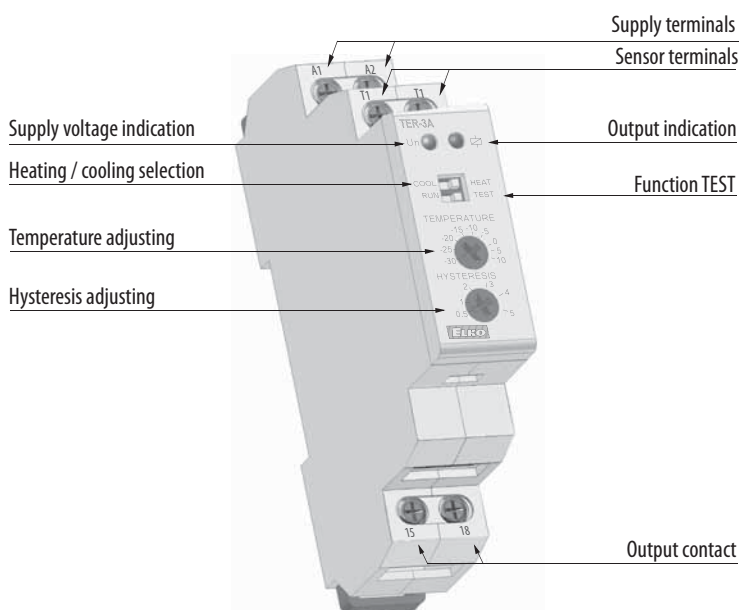
Function



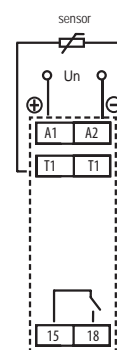
Function description

It is a single but practical thermostat with separated sensor for monitoring temperature. Device is placed in a switchboard and external sensor senses temperature of required space, object, or liquid. Supply is not galvanically separated from sensor. Sensor is double insulated. Maximal length of delivered sensor is 12m. device has in-built indication of sensor damage, which means that in case of short-circuit or disconnection red LED flashes. Thanks to adjustable hysteresis , it is advantageous to regulate width of the range and thus define sensitivity of load switching. Sensed temperature is decreased by set hysteresis. When installing it is necessary to keep in mind that hysteresis is increased by temperature gradient between sensor's jacket and thermistor.

Description



Connection



THERMOSTATS

Example of an order

Please specify a type of thermostat in your order (TER-3A, TER-3B .. or TER-3H) types differ in temperature range and supply voltage.

Note: * - besides TER-3G (PT100)