TER-3 (E, F) | Single-level thermostats with ranges from 0 to +60° C

- Single thermostat for temperature monitoring and regulation in range 0 to +60 °C (32 °F to 140 °F).
- It can be used for temperature monitoring e.g. in switchboards, heating systems, liquids, radiators, motors, devices, open spaces, etc.
- Fixed hysteresis at 1 °C/(1.8 °F).
- TER-3E: choice of external temperature sensors with double insulation in standard lengths 3 (9.8´), 6 (19.7´) and 12 m (39.4´).
- TER-3F: sensor is a part of device, serves for monitoring temperature in a switchboard.
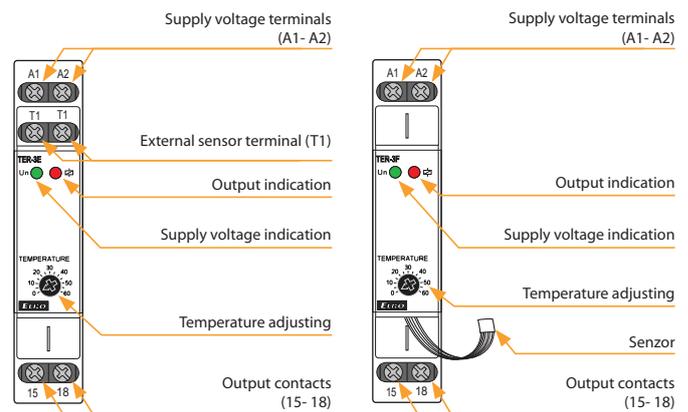
EAN code
TER-3E: 8595188138437
TER-3F: 8595188138444

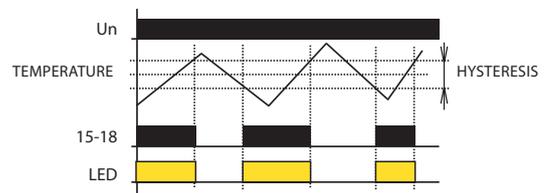| Technical parameters	TER-3E	TER-3F
Function:	single level	
Supply terminals:	A1-A2	
Voltage range:	AC/DC 24 - 240 V (AC 50-60 Hz)	
Burden:	max. 2 VA/1 W	
Max. dissipated power (Un + terminals):	2.5 W	
Supply voltage tolerance:	- 15 %; +10 %	
Measuring circuit		
Measuring terminals:	T1 - T1	x
Temperature range:	0 to +60 °C/(32 °F to 140 °F)	
Hysteresis:	fixed 1 °C/(1.8 °F)	
Sensor:	thermistor NTC	in-built
Sensor fault indic. (short-circuit/disconnection):	flashing red LED	
Accuracy		
Setting accuracy (mech.):	5 %	
Switching difference:	0.5 °C (0.9 °F)	
Temperature dependance:	< 0.1 %/°C (°F)	
Output		
Number of contacts:	1x NO - SPST (AgSnO$_2$)	
Current rating:	16 A/AC1,10 A/24 V DC	
Breaking capacity:	4000 VA/AC1, 300 W/DC	
Switching voltage:	250 V AC/24 V DC	
Output indication:	red LED	
Mechanical life:	10.000.000 ops.	
Electrical life (AC1):	100.000 ops.	
Other information	-20 °C to 55 °C (-4 °F to 131 °F)	
Operating temperature:	-30 °C to 70 °C (-22 °F to 158 °F)	
Storage temperature:	2.5 kV (supply - output)	
Dielectrical strength:	any	
Operating position:	DIN rail EN 60715	
Mounting:	IP40 from front panel/IP10 terminals	
Protection degree:	III.	
Overvoltage category:	2	
Pollution degree:	solid wire max. 2x 2.5 or 1x 4	
Max. cable size (mm²):	with sleeve max. 1x 2.5 or 2x 1.5 (AWG 12)	
	90 x 17.6 x 64 mm (3.5˝ x 0.7˝ x 2.5˝)	
Dimensions:	90 x 17.6 x 64 mm	
Weight:	64 g (2.3 oz.)	60 g (2.1 oz.)
Standards:	EN 60255-1, EN 60255-26,	EN 60255-27, IEC 60730-2-9

Example of an order

Please specify a type of thermostat in your order (TER-3E , TER-3F).
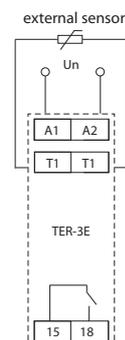
Description

Function

It is a single thermostat for temperature monitoring with separated sensor (except for TER-3F). Device is located in a switchboard and external sensor senses temperature of required space, object or liquid. Supply is not galvanically separated from sensor but sensor is double insulated. Maximal length of sensor cable is 12 m (39.4´). Temperature sensing 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.

Connection

Symbol