

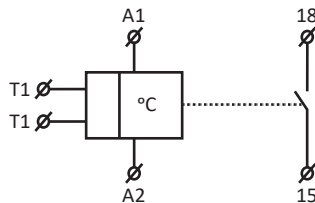
# Thermtec-SL60/SL45

## Thermostats



These single thermostats are for temperature monitoring and regulation in control panels, heating systems, cooling systems, liquids, radiators, motors, devices, open spaces, etc. The Thermtec-SL60 has a temperature range of 0°C to 60°C and the Thermtec-SL45 has a temperature range of -15°C to 45°C.

- Built-in sensor short-circuit or disconnection warning
- Possibility to set the heating or cooling function via DIP switch
- Adjustable hysteresis (sensitivity), set by potentiometer in range 0.5°C to 5°C
- Compatible external temperature sensor with 3 metre cable also available (**Thermtec-SensorPVC**)
- Supply 24Vac/dc - 240Vac/dc, not galvanically separated
- Output contact: 1 x NO / SPST 16A / 250V AC1
- Red LED indicates the status of output. Green LED indicates energisation of the device
- 1-module, DIN-Rail mounting



### Thermtec-SL60/SL45 Technical Specification

	Thermtec-SL60	Thermtec-SL45
Function	Single Thermostat	
Supply Terminals	A1 - A2	
Voltage Range	24Vac/dc - 240Vac/dc (AC 50 - 60Hz), Galvanically Unseparated	
Power Input	Max. 2VA / 1W	
Max. Dissipated Power (Un + Terminals)	2.5W	
Supply Voltage Tolerance	-15%, +10%	
Measuring Terminals	T1 - T1	
Temperature Range	0°C to 60°C	-15°C to 45°C
Hysteresis	Adjustable in range 0.5°C to 5°C	
Sensor	External, Thermistor NTC	
Sensor Fault Indication	Flashing Red LED	
Setting Accuracy (Mechanical)	5%	
Switching Difference	0.5°C	
Temperature Dependance	< 0.1% / °C	
Changeover Contacts	1 x NO / SPST (AgSnO <sub>2</sub> )	

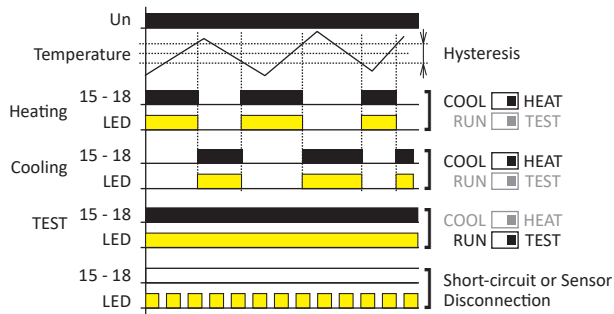
### Thermtec-SL60/SL45 Ordering Scheme



## Thermtec-SL60/SL45 Technical Specification

Rated Current	16A / AC1, 10A / 24V DC
Breaking Capacity	4000VA / AC1, 300W / DC
Switching Voltage	250Vac / 24Vdc
Output Indication	Red LED
Mechanical Life	15,000,000 Cycles
Electrical Life (AC1)	35,000 Cycles
Operating Temperature	-20°C to 55°C
Storage Temperature	-30°C to 70°C
Electrical Strength	2.5kV (Supply Output)
Operating Position	Any
Mounting	DIN-Rail EN 60715
Protection Degree	IP40 from Front Panel / IP10 Terminals
Overvoltage Category	III
Pollution Degree	2
Max. Cable Size (mm <sup>2</sup> )	Solid Wire max. 2x 2.5 or 1x 4 (AWG 12) / Stranded Wire with Ferrule max. 1x 2.5 or 2x 1.5 (AWG 12)
Dimensions	90 x 17.6 x 64mm
Weight	64g
Standards	EN 60255-1, EN 60255-26, EN 60255-27, IEC 60730-2-9

## Thermtec-SL60/SL45 Function



The relay functions as a thermostat using a single external sensor to monitor temperature. The relay can be installed in a control panel with the external sensor run to the required space, object, or liquid to be monitored. The power supply is not galvanically separated from the sensor. The sensor is double insulated and comes in a standard 3 metre length (if using **Thermtec-SensorPVC**). This can be extended by the user to a maximum of 12 metres. The relay features built in indication of sensor short-circuit or disconnection, shown by a red flashing LED. Thanks to adjustable hysteresis it is possible to adjust the sensitivity of the switching points. When installing it is necessary to allow for the temperature gradient between the sensor's outer insulation and internal thermostat.