

# Thermostat KW

Resistance thermostat: limiter: KW



## Description

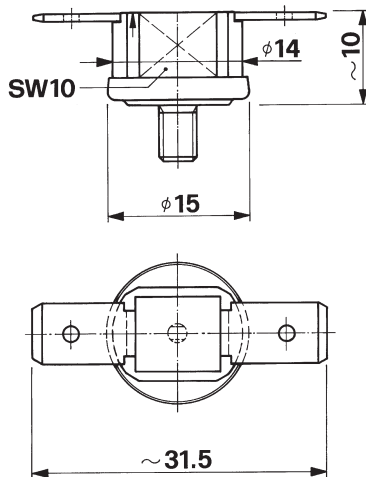
The very compact KW resistance thermostat is designed for current loads of up to 16A and has a wide range of applications. It opens at the required temperature and switches over to an internal heating resistor (self-holding). Reset occurs on cooling by switching off the device. This ensures that the user must manually disconnect the device from power supply.

The KW thermostat is used everywhere where overheating protection is required in minimum space.

- Domestic appliances
- Coffee machines
- Air humidifiers
- Electrical equipment
- Heaters
- Heat exchangers
- Fans



## General dimensions\*



\*) Detailed dimensions and a key to the order numbers are given on the following pages.

## Technical specifications

Switching performance	16 (4) A 250 V ac 1000 cycles
Maximum switching temperature	150 °C
Electrical insulation	> 2800 V
Design	As per EN 60730 • microinterrupter • type 1
Heating resistor	Customer-specific, based on: • temperature • voltage (250/110 V)
Contact material	Silver alloy
Approval	VDE etc.



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## Connection Variants

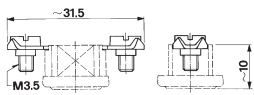


Fig. 1 Screw lugs for conductors up to 2.5 mm<sup>2</sup>

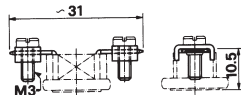


Fig. 2 Bowlings for conductors up to 2.5 mm<sup>2</sup>

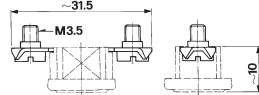


Fig. 3 Screw lugs upstairs for conductors up to 1.5 mm<sup>2</sup>

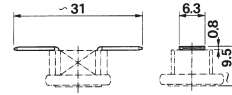


Fig. 4 Flat plugs 6.3 x 0.8 bent sideways

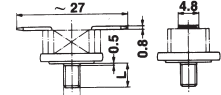


Fig. 5 Flat plugs 4.8 x 0.8 bent sideways

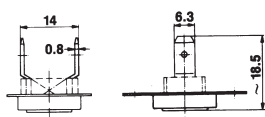


Fig. 6 Flat plugs 6.3 x 0.8 turned up vertically

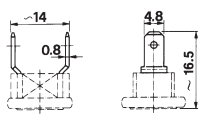


Fig. 7 Flat plugs 4.8 x 0.8 turned up vertically

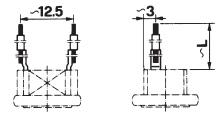


Fig. 8 Insulated strand 0.5 mm<sup>2</sup>, Lengths L=150, 300, 600 mm

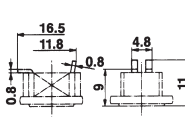


Fig. 9 Connections inside/upstairs without cable

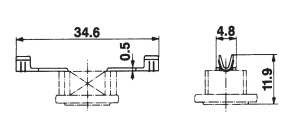


Fig. 10 «Crimp-lugs» inside 0.5 mm

\*) Size of the manual reset: cf. general dimensions on previous page

## Mounting variants

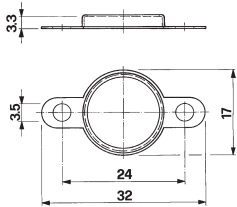


Fig. 11 Flange with bilateral mounting, cranked

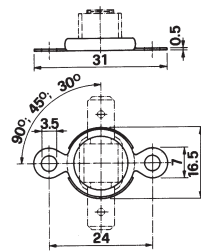


Fig. 13 Cover with arresting flange

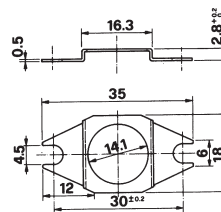


Fig. 14 Special longitudinal flange for M-4 screws

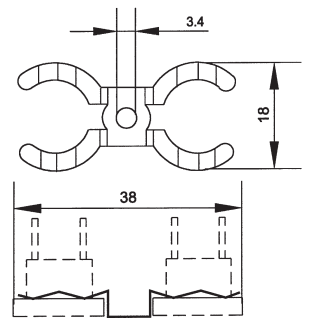


Fig. 15 Special longitudinal flange for 2 thermostats

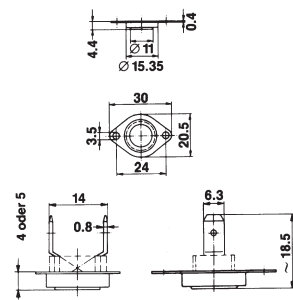


Fig. 16 Flange with bilateral mounting, recessed 4 mm

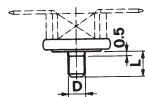


Fig. 17 Screw mounting

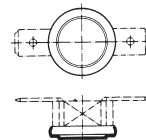


Fig. 18 Encapsulated bimetallic disk

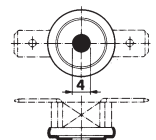


Fig. 19 Uncovered bimetallic disk



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## Mode of action

The KW thermostat operates at a fixed temperature that is determined by a snap-action bimetallic disk. The action of the bimetallic disk is mechanically transmitted to a bridge contact via a transfer pin, so that the electrical circuit is either open or closed, depending on the state of the bimetallic disk.

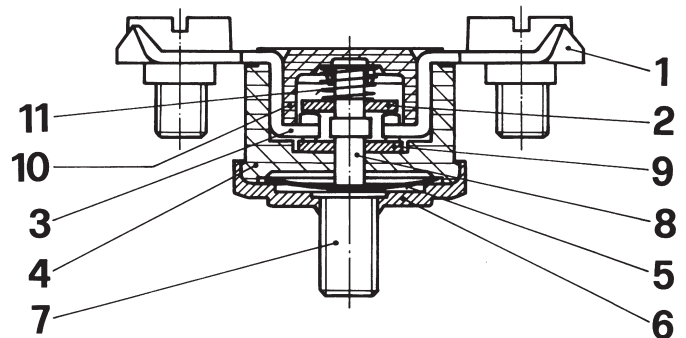
When the switch is open, the resistor is connected to the applied voltage; its heat output ensures that the bimetallic disk cannot snap back.

The sizing of the resistor depends on the required switching temperature and the applied voltage.

After disconnection of the power supply, the bimetallic disk cools and snaps back, closing the electrical circuit again.

## Note

It is the responsibility of the customer to verify the suitability of the intended use. We can provide no guarantees in this regard. However, we will be happy to advise you.



Key:

- |                          |                     |
|--------------------------|---------------------|
| 1 = Terminal             | 7 = Fastening screw |
| 2 = Contact plate        | 8 = Switching pin   |
| 3 = Double-break contact | 9 = Resistor        |
| 4 = Housing              | 10 = Cover          |
| 5 = Bimetallic disk      | 11 = Spring         |
| 6 = Heat transfer plate  |                     |



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