M-Zert
Zertifiziertes QM-System
DIN EN ISO 9001
Zertifikat-Nr. 01017

Room Thermostats

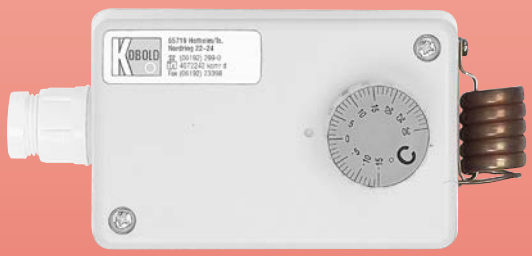
for General Applications

KOBOLD

measuring • monitoring • analysing

TEA-R

- Switching range:
  -30 ... +30 °C ... 0 ... +60 °C
- Material:
  Housing: plastic
  Probe: copper
- Single or double contact switching



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Description

The room thermostats are fitted with liquid-filled helix probes made of copper or stainless steel that act as temperaturedependant pressure probes. A change in temperature causes a pressure change in the probe, which is transferred to a switch by a bellows system or a diaphragm. A compression spring acts as a counteracting force. The switching values are set by changing the initial stress of the compression spring with a setpoint spindle.

Applications

- Monitoring and control of temperatures indoors
- Greenhouses
- Washing bays, exhibition halls, sports centres and industrial buildings

The following types are available

- TEA-R1..: with fixed switching difference *single contact*
- TEA-R2..: with fixed switching difference *double contact*
- TEA-R3..: with adjustable switching difference *single contact*

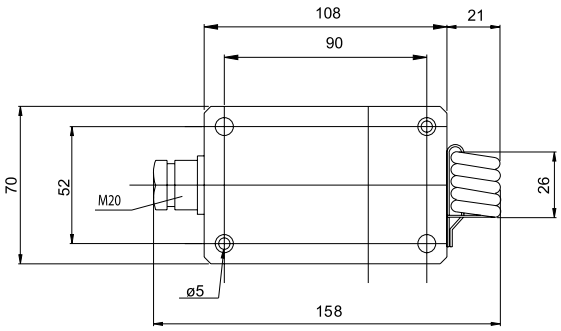
Room thermostats with adjustable switching difference *single contact*

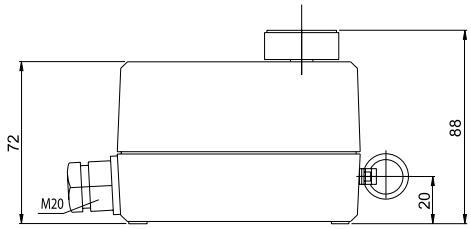
Technical Details

Material:

Housing:	impact-resistant plastic
Probe:	copper, liquid-filled
Contact operation:	single-pole, floating changeover contact, dust proof
Hysteresis:	2-15 K adjustable
Switching capacity:	24 - 250 V_{AC} 15 A at 250 V_{AC} 8 A at 250 V_{AC} inductive
Protection:	IP 65

Dimensions [mm]





Order Details (Example: **TEA-R 3133 0**)

Setting range	Max. probe temperature	Hysteresis adjustable	Order number	Option
-30 ... +30 °C	65 °C	2-15 K	**TEA-R 3133...**	**..0** = without **..A** = full internal adjustment
0 ... +60 °C			**TEA-R 3106...**	

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Room thermostat with fixed switching difference *single contact*

Technical Details

Material:

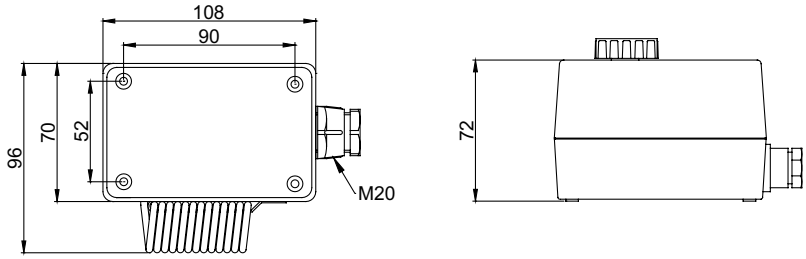
- Housing: impact-resistant plastic
- Probe: copper-nickel, liquid-filled

Contact operation: single-pole, floating changeover contact, dust-tight enclosed

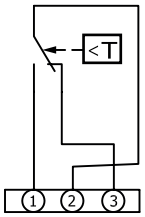
Switch capacity: 24 - 250 V_{AC}
2-3: 16 A at 250 V_{AC}
2-3: 6 A at 250 V_{AC} inductive
2-1: 6 A at 250 V_{AC}
2-1: 4 A at 250 V_{AC} inductive

Protection: IP 54

Dimensions [mm]



Wiring diagram



Order Details (Example: **TEA-R 110 6A**)

Setting range	Max. probe temperature	Hysteresis	Order number	Option
0 ... +60 °C	65 °C	1,5 ± 1 K	**TEA-R 1106...**	**..0** = without **..A** = full internal adjustment

Room thermostat with fixed switching difference *double contact*

Technical Details

Two independent measuring systems, separately adjustable, however for safety reasons, there is only one adjustment control available on the outside.

Material:

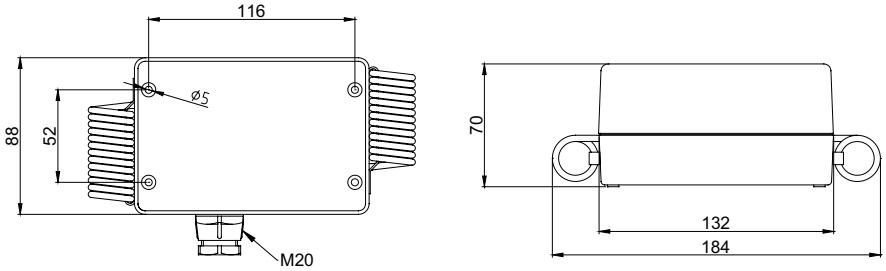
- Housing: impact-resistant plastic
- Probe: copper-nickel, liquid-filled

Contact operation: single-pole, floating changeover contact, dust-tight enclosed

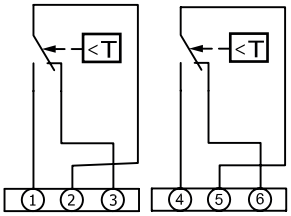
Switch capacity: 16 A at 250 V_{AC}
2-3/5-6: 16 A at 250 V_{AC}
2-3/5-6: 6 A at 250 V_{AC} inductive
2-1/5-4: 6 A at 250 V_{AC}
2-1/5-4: 4 A at 250 V_{AC} inductive

Protection: IP 54

Dimensions [mm]



Wiring diagram



Order Details (Example: **TEA-R 2106 0**)

Setting range 1	Setting range 2	Max. probe temperature	Hysteresis	Order number	Option
0 ... +60 °C	0 ... +60 °C	65 °C	1,5 ± 1 K	**TEA-R 2106...**	**..0** = without **..A** = full internal adjustment