



- Switching range:
-30 to +30 to +50 to +120°C
- Material:
plastic or steel housing
Probe: copper
- Option:
manual interlocking for
frost protection thermostats



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Model:
TEA-F
TEA-K



Description

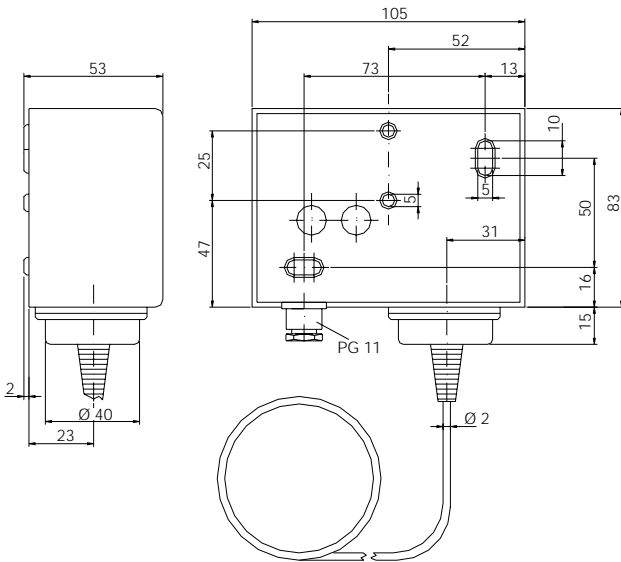
The frost protection thermostats are fitted with liquid-filled probes made of copper that act as temperature-dependant pressure probes. A change in temperature causes a pressure change in the probe, which is transferred to a switch by a bellows system. Probe and bellows system are connected with a copper capillary tube. 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. The probes in the frost protection thermostats have been designed as capillary tubes and are active along their entire length. Switching occurs when the set temperature acts on approximately 30 cm of the probe.

The instruments are fail safe, so that they switch off if the probe is damaged or ruptured.

A second switch contact may be fitted to the instruments as an option. This allows safety measures to be taken before switching off. The switching difference between both switching levels is 5 K.

Anti-freeze thermostats with fixed switching difference *single and double contact*

Dimensions



Technical Details

- Material:
- Housing: steel
lower part galvanized, top sprayed
- Capillary tube: copper, liquid-filled
- Contact operation: single-pole, floating changeover contact, dust-tight enclosed
- Switch point: adjustable, set to 5°C at the factory
- Option: second switch contact
Switching difference between the contacts fixed (5 K)
- Switch capacity: 24 - 250 VAC
15 A at 250 VAC
8 A at 250 VAC inductive
- Ambient temperature: max. 55°C
- Protection: IP 40
- Reclosing interlock: Option **F**, manual reset with falling temperature

Applications

- Protection of warm water- and heating register control systems and heat exchangers from freezing.
- Heating, ventilation, refrigeration technology
- Piping and vessel manufacturing, and mechanical engineering

Order Details (Example: TEA-F 1111 30)

Setting range	Max. probe temperature	Switching difference (fixed)	Length of capillary tube	Order no. <i>single contact</i>	Order no. <i>double contact</i>	Option
-10 to +12°C	200°C	1 K	3 meter	TEA-F 1111 3...	TEA-F 1211 3...	...0 = without
-10 to +12°C	200°C	1 K	6 meter	TEA-F 1111 6...	TEA-F 1211 6...	...F = manual interlocking

Description

The capillary thermostats are fitted with liquid-filled probes made of copper that act as temperature-dependant pressure probes. A change in temperature causes a pressure change in the probe, which is transferred to a switch by a bellows system. Probe and bellows system are connected with a copper capillary. 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.

**Capillary tube thermostats
single contact**



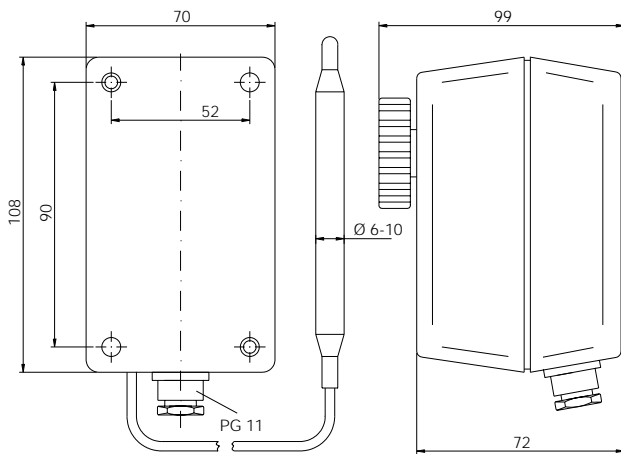
Technical Details

- Material:
- Housing: impact-resistant plastic
 - Probe: copper, liquid-filled
 - Capillary tube: copper
- Contact operation: single-pole, floating changeover contact, dust-tight enclosed
- Switching difference: 2-20 K adjustable
- Switch capacity: 24 -250 VAC
15 A at 250 VAC
8 A at 250 VAC inductive
- Ambient temperature: max. 55°C
- Protection: IP 65

Applications

- Monitoring and control of liquids and gases.
- Heating, ventilation, refrigeration technology
- Vessel manufacturing and mechanical engineering

Dimensions



Order Details (Example: TEA-K 3133 0)

Setting range	Max. probe temperature	switching difference adjustable	Order no.	length of capillary tube	option
-30 to +30 °C	60 °C	2-20 K	TEA-K 3133...	..1.. = 1,5 m	..0 = without ..A = full internal adjustment
0 to +60 °C	75 °C	2-20 K	TEA-K 3106...		
+20 to +90 °C	100 °C	2-20 K	TEA-K 3129...		
+50 to +120 °C	150 °C	2-20 K	TEA-K 3112...		

*for setting ranges -35 to +90 C only

Please refer to our brochure T2...



.... for temperature measurement