005-1103

Order No.: 005-1103

Safety-limit thermostat mV, Gold contact 130/120/110/100/95°C; 1,7m

For panel mounting, Cut-out temperature adjustable

CE 0035

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ID: 0000006961

Application

For heat generators with temperatures up to 130 °C

Features

Electro-mechanical, adjustable manual reset safety thermal cut-out (STB), approved to DIN 3440, EN60730-1/-2-9 and directive 97/23/EG to supervise heat generators.

- Fail safe design. Should expansion liquid loss occur, contact 11 –12 will open
- The operation temperature is irreversibly adjustable from a higher to a lower value
- Exceeding the cut-out temperature, the circuit switches to OFF or changeover and stays at this position
- Manual reset is enabled after a temperature drop of approx. 20 K on the sensing element
- Single pole micro switch with OFF-switch
- Time factor of the sensing element complying with DIN 3440 and EN 60 730-2-9
- Type 2 BDEFHKL (EN 60 730-1 /-2-9)
- Environmental condition for pollution: normal

Order No.

005-1103	(only thermostat)
005-1103C	(including Hex nut and Cap nut, see overleaf)

Technical data

The following indication are valid for the standard type 56.10525.600. Due to the function, other types show different data.

Switching system	Switching capacity acc. to EN 60 730-1 /-2-9	
	• Nominal voltage range	AC 12 V
	• Nominal current range I (I_M)	0.01…0.5 A
	Service life at nominal load	min. 15'000 operations
	Protection class	I according to EN 60 730-1
	Protection class of housing	IP00 according to EN 60 529
Application range	Cut-out temperature ϑ_{off} (range)	130/120/110/100/95 °C
	Ambient temperature at switching head	max. 125 °C (T125)
	Sensing element temperature	max. 160°C
	Storage and transportation temperature	-30...+80 °C
	Minimal capillary bending radius	R_{min} = 5 mm
	Correction factor	c = 0,38 [K/K] referred to ambient temp.
Calibration	Calibration tolerance	(0-9) K
	Calibrated for ambient temperature at switching head and capillary	35 ±2 °C (Tu35 according to DIN 3440)
	Time factor in water / in Oil	< 45 s / < 60 s

Execution

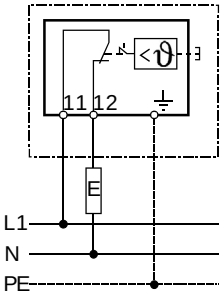
Switch system support	Ceramic
Capillary tube	Cupper
Sensing element	Cupper
Diaphragm	Stainless steel
Capillary tube length L	1760mm
Electrical connection	Faston A6.3-0.8-Br acc. DIN 46 244
Earth terminal connection	Faston A6.3-0.8-Br acc. DIN 46 244
Weight	89 gr.

Mounting indications

The required pocket material depends on the installation (medium, tank material etc.) and **must be specified by the user**

To comply with the time factor requirements according to DIN 3440, pockets must conform to drawing H 1 7111 3459 (see also data sheet “Pockets 1130”)

Wiring diagram



Standard range
Adjustable, manual reset, safety thermal cut-out (STB)

Accessories

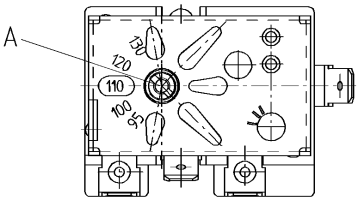
Hex nut M10

Order No.: 005-1012

Cap nut M10

Order No.: 005-1016

Temperature values



Dimensions