

BIMETAL SWITCHES WITH CABLE TSB 087

127.01en

DESCRIPTION AND APPLICATION

Bimetal temperature switches series TSB 087 are designed as two-state controllers (ON/OFF control) that compare the preset and instantaneous temperature and immediately disconnect the contact when a defined temperature is reached. The required temperature of switching is defined according to the customer's needs by the selection of a bimetal thermal cutoff and cannot be changed. Bimetal switches TSB 087 series consist of a stainless steel housing containing a bimetal switch (thermal cutoff) and supply cable. These temperature switches are used to signal exceeded temperature in various industrial applications, e.g. to protect transformers, power semiconductor stages, motors and powerful batteries.

The bimetal switches TSB 087 series are intended for operation in chemically non-aggressive environments.

DECLARATION, CERTIFICATES, CALIBRATION

Manufacturer provides **EU Declaration of Conformity**.

Calibration – Calibration – The final metrological inspection – comparison with standards or working instruments – is carried out for all the products. Continuity of the standards and working measuring instruments is ensured within the meaning of the Section 5 of Act no.505/1990 on metrology. The manufacturer offers a possibility to supply the sensors calibrated in SENSIT s.r.o.'s laboratory (according to requirements of the EN ISO/IEC 17025 standard, as amended) or in an Accredited laboratory.

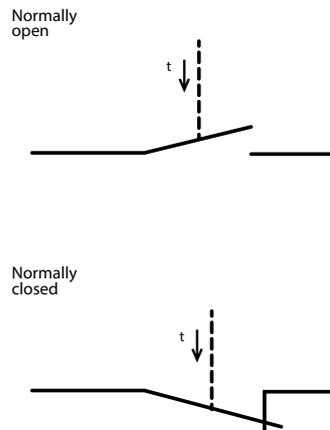
SPECIFICATIONS

Temperature switch type	TSB 087
Temperature switch sensing element	bimetal TMC – C1B
Temperature range (selection of the tripping temperature)	70 to 180 °C (in 10 °C steps) *
Switching tolerance	± 5°C
Contact design	normally closed (snap action)
Maximum switching voltage/current	10 000 cycles 250 VAC / 2.5A
	3 000 cycles 250 VAC / 6.3A
Case material	stainless steel DIN 1.4301
Case diameter	10 mm
Case length	60 mm
Working range	-25 to 180 °C
Ingress protection	IP 67 in according with EN 60529, as amended
Insulation resistance in normal environment	min. 20 MΩ
Dielectric strength of insulation	2 kVAC/1 min.
Contact connection	2wire
Supply cable	silicone shielded 2 x 0.34 mm ²
Weight	min. 0,2 kg acc. to design

*) in 5 steps on request



WIRING DIAGRAM



DIMENSIONAL DRAFT

