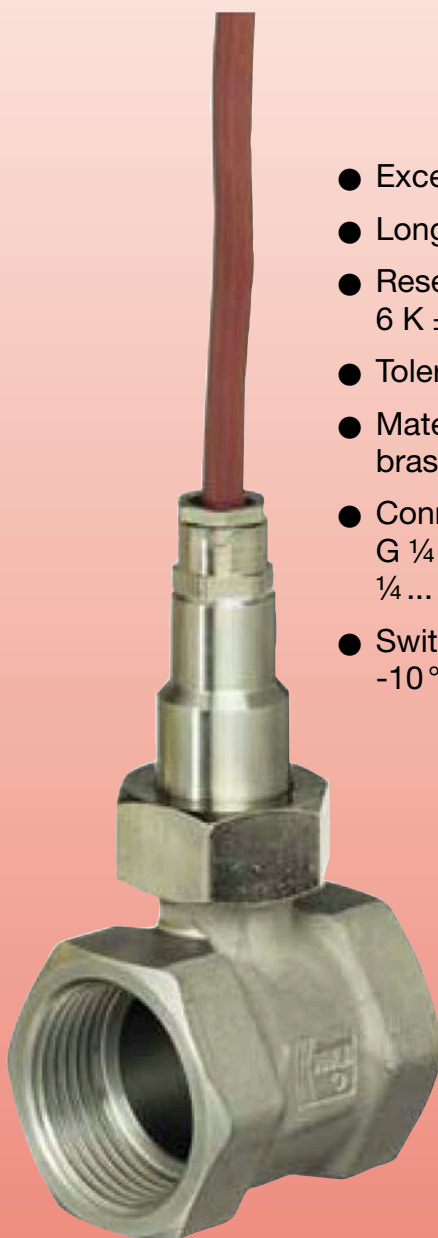
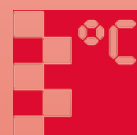


Bimetal Temperature Switch for liquids

TBS



- Excellent repeatability
- Long service life
- Resetting hysteresis
6 K \pm 2 K
- Tolerance \pm 3 K
- Material:
brass or stainless steel
- Connection:
G 1/4 ... 1 1/2
1/4 ... 1 1/2" NPT
- Switch points:
-10 °C ... +100 °C



T1

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Description

Bimetal temperature switches are used for temperature monitoring and control. They are characterised by their long service life and operational reliability.

A particular advantage is their excellent repeatability, as bimetal temperature switches are practically insensitive to the service environment.

The model TBS bimetal temperature switches are supplied in a robust housing made of brass or stainless steel with G ¼ ... G 1½ internal thread on both sides and with a 1.5 m silicone sheathed cable. They are thus also suitable for service in rough conditions.

The temperature contacts have a fixed switch point in intervals of 5 °C over the range -10 °C ... 50 °C, and in intervals of 10 °C over the range 50 °C ... 100 °C and are designed as N/C contacts.

Application

The model TBS bimetal temperature switches are suited for universal use. They can be used in applications where temperature monitoring or control is required.

Technical Details

Material:	brass or stainless steel
Housing:	FPM
Seal:	1.5 m silicone sheathed cable (longer cable on request))
Cable:	PN 16 version brass PN 25 version stainless steel
Pressure:	Allowed ambient temperature: -30 °C ... +105 °C Allowed temp. of medium: -40 °C ... +120 °C
Tolerance:	±3 K
Resetting hysteresis:	6 K ±2 K
Contact:	N/C contact with rising temperature
Switching cycles:	max. 100 000 at nominal load
DC voltage:	max. 24 V _{DC}
AC voltage:	max. 240 V _{AC}
Permanent current:	max. 1,3 A
Contact resistance:	<30 mOhm
Protection:	IP 65
We recommend service contact protection relays for switching with higher currents (see brochure Z2).	

Order Details (Example: TBS-11 R08 000)

Model	Connection (female)		Switch point (N/C contact with rising temperature)	
	G thread	NPT thread		
TBS-11 = brass housing TBS-12 = st. st. housing	R08 = G ¼	N08 = ¼" NPT	M10 = -10 °C	035 = 35 °C
	R10 = G ⅜	N10 = ⅜" NPT	M05 = -5 °C	040 = 40 °C
	R15 = G ½	N15 = ½" NPT	000 = 0 °C	045 = 45 °C
	R20 = G ¾	N20 = ¾" NPT	005 = 5 °C	050 = 50 °C
	R25 = G 1	N25 = 1" NPT	010 = 10 °C	060 = 60 °C
	R32 = G 1¼	N32 = 1¼" NPT	015 = 15 °C	070 = 70 °C
	R40 = G 1½	N40 = 1½" NPT	020 = 20 °C	080 = 80 °C
			025 = 25 °C	090 = 90 °C
			030 = 30 °C	100 = 100 °C

Dimensions

A	B [mm]	C [mm]	D [mm]	E max. [mm]
G ¼	27	10	50	77
G ⅜	27	10	50	77
G ½	27	10	50	77
G ¾	32	15	52	78
G 1	39	15	56	81
G 1¼	46	15	50	109
G 1½	55	15	50	116

