Bimetal temperature switch TSK-Atex

Since the viscosity of oil changes based on the temperature, operating temperatures must be monitored. Depending on the requirements, monitoring by means of indicating the minimum temperature to warning points and ending with shut down, will suffice. The warning or shut-off points are implemented using a bimetallic switch and in the process, hysteresis can also be used as a reset point.

The TSK-Atex series consists of simple electrical equipment. In the case of intrinsically safe connections as per EN 60079-14, the TSK-Atex can be used in Zone 1 (group IIC, device category 2G) explosive areas; this also applies to the inner zone of the tank. The temperature switches are classified as temperature class T4.

The temperature switch was designed to allow removing the electrical inner workings without having to remove the switching tube from the tank. This is convenient if the temperature switch is installed laterally inside oil.

ATEX applications: Zone 1 (cat. 2G), simple electrical equipment according to EN 60079-11

Simple, robust design

Electrical inner part, easy to remove

Optionally DIN connector or M12 base connector

Outlet direction adjustable in 90° steps

Elastic sealing ring



Fluidcontrol



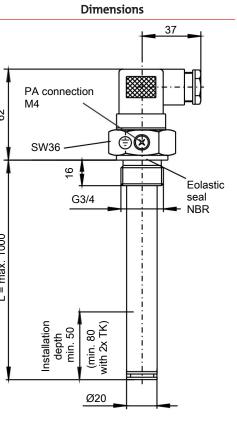




Technical Data TSK-Atex

TSK-Atex

I JK ALEA				
Versions:	TSK-1 = with one temperature contact TSK-2 = with two temperature contacts			
Switch element:	bi-metal	in two temperatu	ile contacts	
Switching function:	NC = NC co	ontact/NO = NO co	ontact	
Switching temperature:	45 to 80 °C (also see chart)			
Probe length L max.:	1000 mm			62
Probe material:	Brass			
Max. operating pressure:	1 bar			-
Operating temperature:	max. +80 °	C		
Ambient temperature:	-20 to +80	°C		
Temperature contacts				
Switch-back difference:	10 K ± 5 K			0
Switching point:		NC*	NO*	1000
	45 °C	TKÖ-45	TKS-45	max.
	55 °C	TKÖ-55	TKS-55	ے ا
	65 °C	TKÖ-65	TKS-65	
	75 °C	TKÖ-75	TKS-75	



Other temperatures available upon request

*NC = NC contact/NO = NO contact All data for rising temperature

Accessories

Connection cable M12x1 (5-pin) 3.0 m long, item no.: 9144050018

Switch amplifier for temperature switches see data sheet no. 18 0003

The device is suitable for use in ATEX category II 2 G Ex ib IIC T4.

The temperature switch may only be operated on intrinsically-safe circuits!

Temperature contacts

M12 (base)
M12x1
4-pin+PE
IP 67**
PG 7**

TSK-Atex	
Model key for TSK temperature swite	ch
TSK - XX	-XX-G3/4-XX/XX-XX-XX-ATEX
Number of temperature contacts 1 or 2 Version MS Brass Plug connection M3 M12	T2 (NC TK4 TK5 TK6 TK7 TK8 T1 (NC
Length (max. 1000 mm) 280 370 500 variable (please specify)	ТК4 ТК5 ТК6 ТК7 ТК8

T2 (2nd tem	perature contact)
NC contact	NO contact
TK40NC	TK40NO = 40 °C
TK50NC	TK50NO = 50 °C
TK60NC	TK60NO = 60 °C
TK70NC	TK70NO = 70 °C
TK80NC	TK80NO = 80 °C
T1 (1st temp	perature contact)
T1 (1st temp NC contact	perature contact) NO contact
, i	,
NC contact	NO contact
NC contact TK40NC	NO contact TK40NO = 40 °C
NC contact TK40NC TK50NC	NO contact TK40NO = 40 °C TK50NO = 50 °C

Ordering example

You require:	Length L= 300 mm, 2 temperature contacts, 1st contact NC at 50 °C, 2nd contact NO at 70 °C, M3 plug
Order:	TSK-MS-G3/4-M3/300-TK50NC-TK70NO-ATEX