

Bimetal temperature switch TSK-Atex



All fluid containing systems used as hydraulic power packs or for lubrication need to limit the minimum and maximum temperature of the fluid.

This unit is a simple apparatus without own voltage source. In an intrinsically safe installation acc. to EN 60079-14 the temperature switch can be used in hazardous locations zone 1 (group IIC, cat. 2G). That applies also to the zone inside of the reservoir. For standard application the temperature class is T5 at ambient temperatures -20 °C to +80 °C.

The TSK series of switches have bi metal contacts with a range of different settings and contact functions. Either one or two contacts are inserted into a housing made of brass .

Please note that for applications with temperature settings close to ambient temperatures the hysteresis of the TSK might not allow the contact to reset.

The TSK can be fitted with DIN or M12 connector terminals .

- **Atex - range of use:
zone 1 (cat. 2G), intrinsically safe
acc. to EN 50020**
- **Rugged design**
- **Electrical insert easy to remove**
- **DIN or optional M12 connector**
- **Elastomer seal fitted as standard**
- **DIN connector allows adjustment
of cable orientation in 90 ° steps**

technical data

types TSK-1 = with one temperature contact
TSK-2 = with two temperature contacts

switch bimetal trip
switching function NC or NO*
switch over temperature 50 to 80 °C
length of probe L max. = 1000 mm
probe material brass
max. operating pressure 1 bar
max. operating temperature 80 °C
ambient temperature -20 to +80 °C

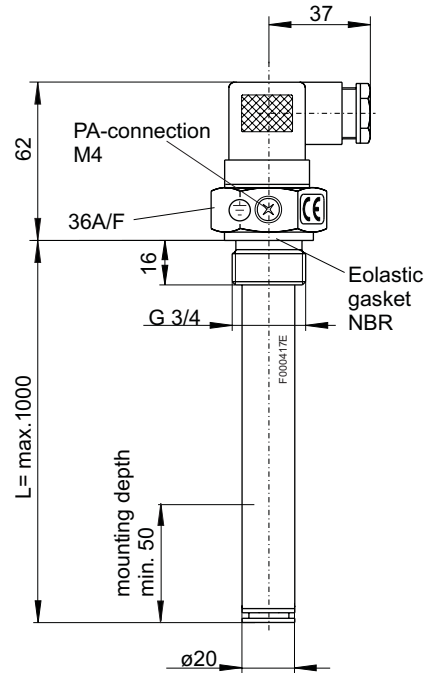
temperature contact

hysteresis 10 K ± 5 K

		NC*	Art.-Nr.	NO*	Art.-Nr.
switch point	45°C	TKÖ-45	1851499	TKS-45	1864999
	55°C	TKÖ-55	1851599	TKS-55	1852199
	65°C	TKÖ-65	1851699	TKS-65	1852299
	75°C	TKÖ-75	1851799	TKS-75	1852399

other settings upon request

* NC=normally closed / NO=normally open, all figures shown are for rising temperature



supplies

connection plug M12x1 (5 pol.) 3,0m | controllers for temperature switch - Atex
part-no : 9144050018 | see data sheet DE 18 0004

Ex-qualification: II 2 G EEx ib IIC T5
L_i, C_i : negligible ; I_{ma x} : 90mA ; U_{ma x} : 30V (DC)



The level switches to be allowed only for
intrinsically safe electric circuit !

connector	M3 3 pol. + PE DIN 43650	M12 (socket) 4 pol.+PE	
protection class	IP 65	IP 67**	
cable gland	PG 11	PG 7**	
other connectors upon request		**with plug fixed	

order information

part-no. of the basic version, L=variable

with connector	M3	M12 (socket)	length
TSK-1-Atex G3/4	1137199A	1137399A	L=...mm
TSK-2-Atex G3/4	1137299A	1137499A	L=...mm

order example:

you need: length L= 300 mm, two temperature contacts, first contact NC at 55 °C, second contact NO at 75 °C, connector type M3

you order: part-no. 1137299A temperature switch TSK-2-Atex-G3/4-M3 with TKÖ-55 / TKS-75
1x part-no. 1851599 (TKÖ-55), 1x part-no. 1852399 (TKS-75)