Bi-metal-Temperature switch TSM, TSE

High operating temperatures significantly reduce the life of oils in the hydraulics and the lubrication. The prevent exceeding harmful limits, for example due to unforeseeable overloads or reduced cooling capacity, the systems must be shut off in a timely manner. This shut-off is performed using the following temperature switches of the Bühler TSM and TSE series.

These switches contain a bimetal that bends as the temperature rises. If the temperature exceeds a certain limit, the bimetal interrupts the current flow and thus protects the system from damage. After resolving the cause of the excess temperature, following a cooling phase (hysteresis) the bimetal element automatically returns to operating mode. However, for safety reasons it is advisable to still display the current oil temperature on the oil tank.

G1/2" threaded connection

Up to 2 temperature switching points

Sensor length up to 1 m (3.3 ft)



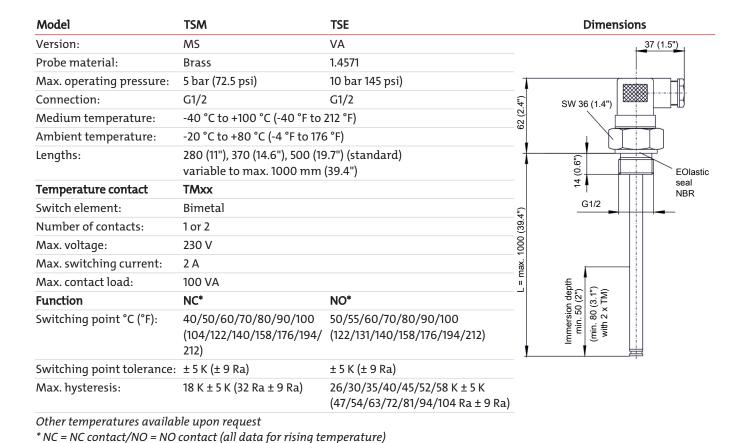
Fluidcontrol





Internet: www.buhlertech.com

Technical Data TSM/TSE



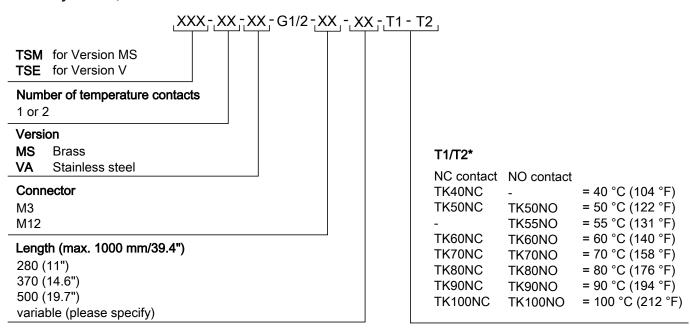
Standard Pin Assignment TSM/TSE

Plug connection*:	M3 valve connector	M12 plug A coded
Dimensions:	1.46"	M12x1
Connection schematic:	2	3 0 0 1
Number of pins:	3-pin + PE	4-pin
DIN EN:	175301-803	61076-2-101
Max. voltage:	230 V AC/DC	30 V DC
IP rating:	IP 65	IP 67**
Cable fitting:	PG 11	
Standard pin assignment:	1—————————————————————————————————————	1-(= T1
T1 = lower temperature/T2 u)-

* other connectors available on request.
** with IP67 cable box screwed on.

Buhler Technologies LLC

Model Key for TSM/TSE



^{*}Listing can be selected for the first temperature contact T1 and for the second temperature contact T2.

Ordering example

You need: Brass temperature switch, G1/2 connection, length L= 300 mm (11.8"), M3 plug

2 x temperature contact: 1st Contact 50 °C (122 °F) NC, 2nd contact 70 °C (158 °F) NO

Order: TSM-2-M3/300 -TM50NC-TM70NO