

TSM-G1/2, TSE-G1/2

- G1/2" thread connection
- Up to 2 temperature switching points
- Probe length up to 1 m

TSM-G1/2



TSK-G3/4

- G3/4" thread connection
- Up to 2 temperature switching points
- Probe length up to 1 m
- Low hysteresis

TSK-G3/4



TSA

- G1/2" thread connection
- 1 x temperature switching point
- Fixed length 29 mm for e. g. cable installation

TSA



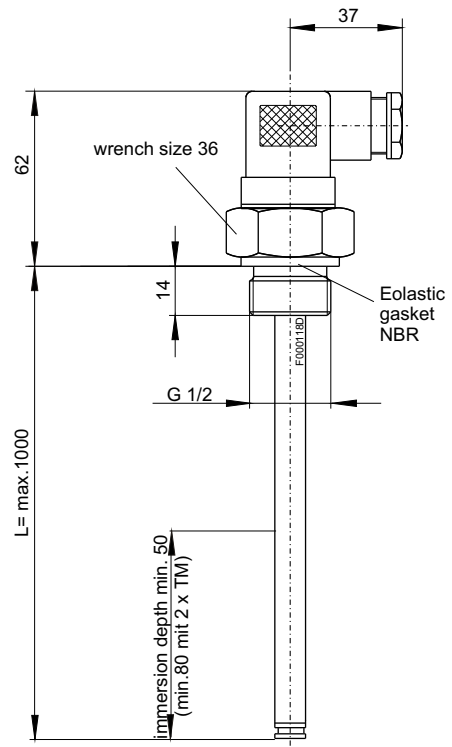
Technical data

TSM / TSE

Type	TSM-G1/2	TSE-G1/2
Design	MS	VA
material probe	brass	1.4571
max. operating pressure	5 bar	10 bar
connection	G1/2	G1/2
operating temperature	-40 °C to +80 °C	
lengths	280, 370, 500 (standard) variable up to max. 1000 mm	
Temperature contact		
	TMxx	
switch element	bi-metal	
# contacts	1 or 2	
max. voltage	230 V	
max. current	2 A	
max. contact load	100 VA	
Function		
	NC	NO*
switching point °C	50 / 60 / 70 / 80	50 / 60 / 70 / 80
switching point tolerance	± 5 K	± 5 K
max. hysteresis	18 K ± 5 K	26 / 35 / 40 / 45 K ± 5 K

other temperatures on request

* NC = normally closed / NO = normally open at **low temperature**

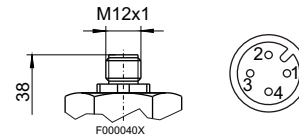
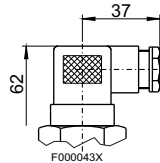


Connector*	M3 (DIN EN 175301-803)
	3 pol. + PE
max. voltage	230 V AC/DC
protection class	IP 65
cable connection	PG 11

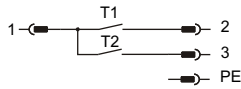
*other connectors on request

M12 (base)
4 pol.
30 V DC
IP 67**

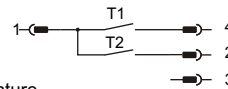
**with casted connector head



Standard pin assignment



T1 = lower temperature / T2 = higher temperature



Product code for Temperature switch TSM / TSE

TSM for design MS
TSE for design VA

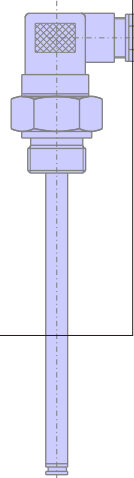
temperature contacts
1 or 2

Design
MS
VA

Connector
M3
M12

Length (max. 1000 mm)
280
370
500
Variable (please quote)

G1/2



T2 (2nd Temperature contact)

NC	NO	
TM50NC	TM50NO	=50 °C
TM60NC	TM60NO	=60 °C
TM70NC	TM70NO	=70 °C
TM80NC	TM80NO	=80 °C

T1 (1st Temperature contact)

NC	NO	
TM50NC	TM50NO	=50 °C
TM60NC	TM60NO	=60 °C
TM70NC	TM70NO	=70 °C
TM80NC	TM80NO	=80 °C

Example for order

You need: Temperature switch brass design, connection G1/2, length L= 300 mm, connector M3
2 x temperature contact: 1st contact 50 °C NC (open), 2nd contact 70 °C NO (closed),

You order: TSM-2-M3 / 300 -TM50NC-TM70NO

Technical data

TSK

Type

design

material probe
max. operating pressure
connection
operating temperature
lengths

TSK-G3/4

MS

brass
1 bar
G3/4
-40 °C to +80 °C
280, 370, 500 (standard)
variable up to max 1000

VA

1.4571
5 bar
G3/4

Temperature contact

switch element
quantity contacts
max. voltage
max. current
max. contact load

TKxx

bi-metal
1 or 2
230 V
2 A
100 VA

Function

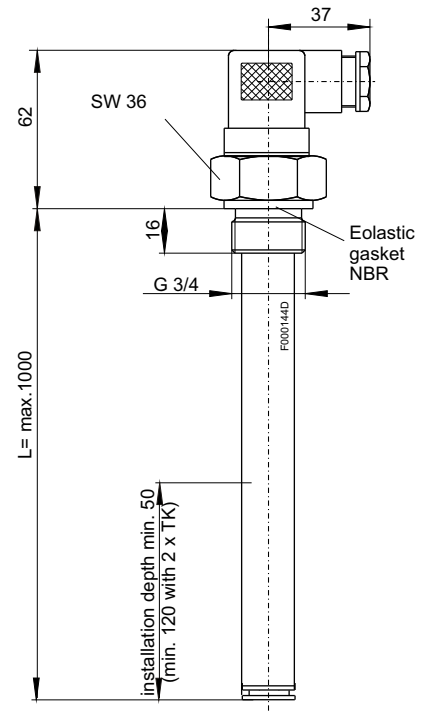
switching point °C
switching point tolerance
max. hysteresis

NC / NO*

40 / 50 / 60 / 70 / 80
± 3 K
10 K ± 5 K

other temperatures on request

*NC = normally closed / NO = normally open at **low temperature**



Connector*

max. current

protection class
cable connection

*other connectors on request

M3

3 pol. + PE (DIN EN 175301-803)
230 V AC/DC

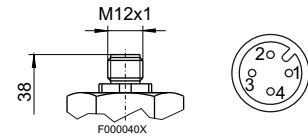
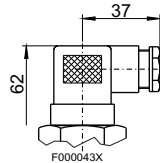
IP 65
PG 11

M12 (base)

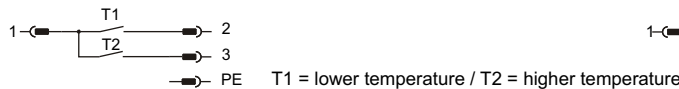
4 pol.
30 V DC

IP 67**

**with casted connector head



Standard pin assignment



Product code for Temperature switch TSK

TSK- [] [] G3/4 [] [] [] []

temperature contacts
1 or 2

Design

MS brass
VA stainless steel

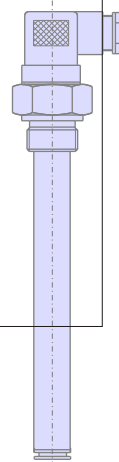
Connector

M3
M12

Length (max. 1000mm)

280
370
500

Variable (please specify)



T2 (2nd Temperature contact)

NC	NO	
TK40NC	TK40NO	=40°C
TK50NC	TK50NO	=50°C
TK60NC	TK60NO	=60°C
TK70NC	TK70NO	=70°C
TK80NC	TK80NO	=80°C

T1 (1st Temperature contact)

NC	NO	
TK40NC	TK40NO	=40°C
TK50NC	TK50NO	=50°C
TK60NC	TK60NO	=60°C
TK70NC	TK70NO	=70°C
TK80NC	TK80NO	=80°C

Example for order

You need: Temperature switch brass design, connection G3/4, length L= 300 mm, connector M3
2 x temperature contact: 1st contact 50 °C NC (open), 2nd contact 70 °C NO (closed),

You order: TSK-2-M3 / 300 -TK50NC-TK70NO

Technical data

Type	TSA
probe length	29 mm
material probe	aluminium anodized
max. operating pressure	15 bar
operating temperature	- 40 °C to + 80 °C

Temperature contacts

switch element	bi-metal
max. voltage	230 V
max. current	2 A
max. contact load	100 VA
tolerance	± 5 K
switching back difference	15 K ± 3 K

switch function

NO*/NC*

switching point °C 25 / 40 / 50 / 60 / 70 / 80

*NC = normally closed / NO = normally open at **low temperature**

other temperatures on request

Connector

M3 (DIN EN 175301-803)

3 pol. + PE

protection class

IP 65

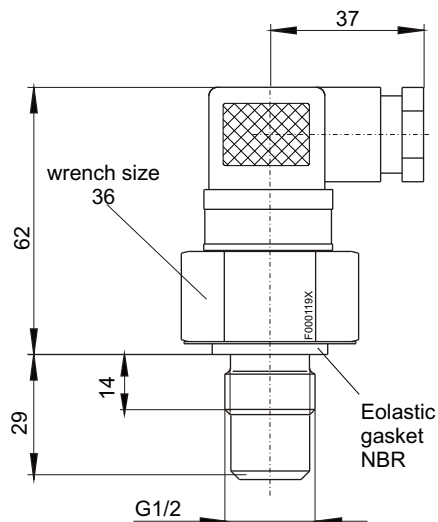
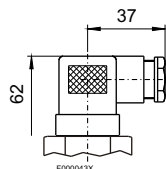
max. voltage

230 V AC/DC

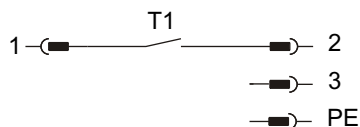
cable connection

PG 11

other connectors on request



Standard pin assignment



Order information

Switch function	NO	.	NC	
Temperature	Type	Part No.	Type	Part No.
25 °C / 77 °F	TSA-25-M3	11 39 699	TÖA-25-M3	11 42 899
40 °C / 104 °F	TSA-40-M3	11 39 599	TÖA-40-M3	11 43 299
50 °C / 122 °F	TSA-50-M3	11 38 599	TÖA-50-M3	11 42 199
60 °C / 140 °F	TSA-60-M3	11 38 699	TÖA-60-M3	11 43 399
70 °C / 158 °F	TSA-70M3	11 38 799	TÖA-70-M3	11 40 299
80 °C / 176 °F	TSA-80-M3	11 39 299	TÖA-80-M3	11 40 899

Example for order:

You need: Temperature contact should be at 50 °C NO, connector Type M3

You order: Part No. 1138599 Temperature switch TSA-50-M3