

## TSM-G1/2, TSE-G1/2

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

## TSM-G1/2



## TSK-G3/4

- G3/4" connection thread
- up to 2 temperature switching points
- probe length up to 1 m
- low hysteresis

## TSK-G3/4



## T\_A

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

## T\_A



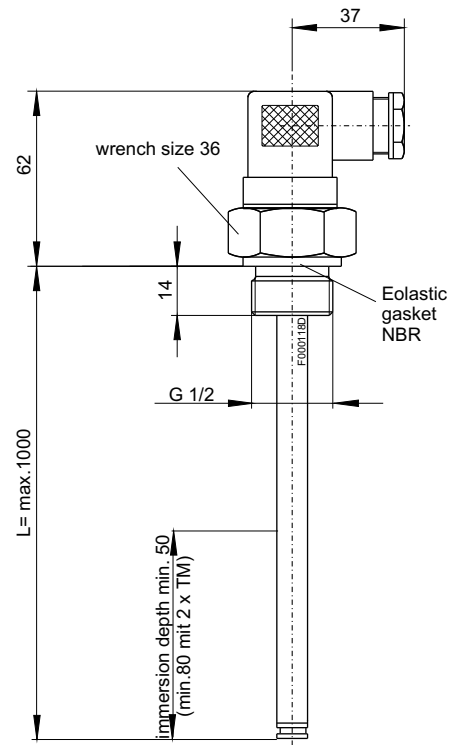
## Technical data

## TSM / TSE

Type	TSM-G1/2	TSE-G1/2
<b>Design</b>	<b>MS</b>	<b>VA</b>
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	
<b>Temperature contact</b>		
	<b>TMxx</b>	
switch element	bi-metal	
quantity contacts	1 or 2	
max. voltage	230 V	
max. current	<b>2 A</b>	
max. contact load	100 VA	
<b>Function</b>		
	<b>NC</b>	<b>NO*</b>
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**

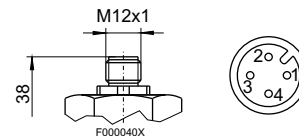
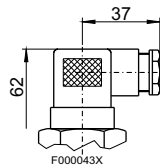


Connector*	M3 (DIN EN 175301-803)
	3 pol. + PE
max. voltage	230 V AC/DC
protection class	IP 65
cable connection	PG 11

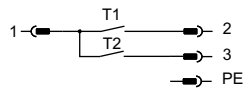
\*other connectors on request

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

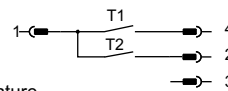
\*\*with casted connector head



## Standard pin assignment



T1 = lower temperature / T2 = higher temperature



## Product code for Temperature switch TSM / TSE

**TSM** for design MS  
**TSE** for design VA

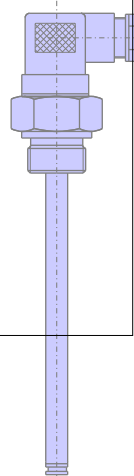
**Quantity temperature contacts**  
**1 or 2**

**Design**  
**MS**  
**VA**

**Connector**  
M3  
M12

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

**G1/2**



### T2 (2. Temperature contact)

opener	closer	
TM50NC	TM50NO	=50 °C
TM60NC	TM60NO	=60 °C
TM70NC	TM70NO	=70 °C
TM80NC	TM80NO	=80 °C

### T1 (1. Temperature contact)

opener	closer	
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: 1. contact 50 °C NC (opener), 2. contact 70 °C NO (closer),

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

## Technical data

## TSK

### Type

#### design

material probe	brass	1.4571
max. operating pressure	1 bar	5 bar
connection	G3/4	G3/4
operating temperature	-40 °C to +80 °C	
lengths	280, 370, 500 (standard) variable up to max 1000	

### Temperature contact

switch element	bi-metal
quantity contacts	1 or 2
max. voltage	230 V
max. current	2 A
max. contact load	100 VA

### Function

switching point °C	40 / 50 / 60 / 70 / 80
switching point tolerance	± 3 K
max. hysteresis	10 K ± 5 K

other temperatures on request

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

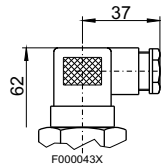
### Connector\*

	<b>M3</b>
	3 pol. + PE (DIN EN 175301-803)
max. current	230 V AC/DC

protection class  
cable connection

IP 65  
PG 11

\*other connectors on request

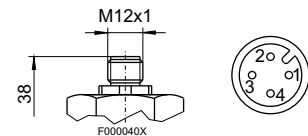


### M12 ( base )

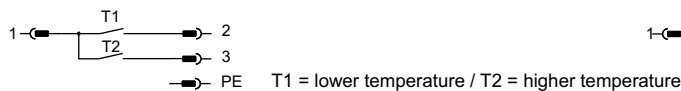
4 pol.  
30 V DC

IP 67\*\*

\*\*with casted connector head



### Standard pin assignment



## Product code for Temperature switch TSK

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

Quantity temperature contacts  
1 or 2

### Design

**MS** brass  
**VA** stainless steel

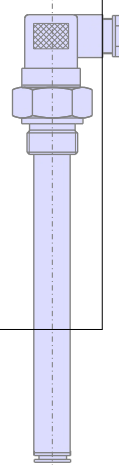
### Connector

M3  
M12

Length (max. 1000mm)

**280**  
**370**  
**500**

Variable (please specify)



### T2 (2. Temperature contact)

opener	closer	
TK40NC	TK40NO	=40°C
TK50NC	TK50NO	=50°C
TK60NC	TK60NO	=60°C
TK70NC	TK70NO	=70°C
TK80NC	TK80NO	=80°C

### T1 (1. Temperature contact)

opener	closer	
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: 1. contact 50 °C NC (opener), 2. contact 70 °C NO (closer),

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

## Technical data

<b>Type</b>	<b>T_A</b>
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

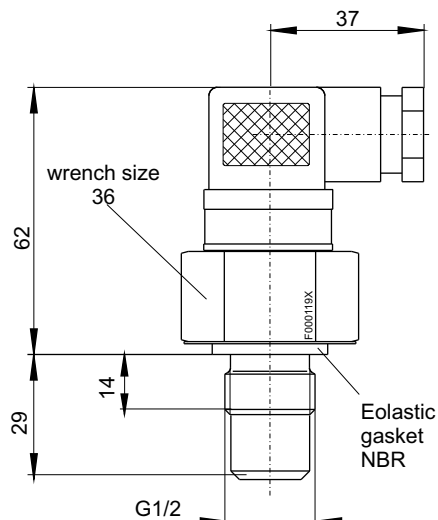
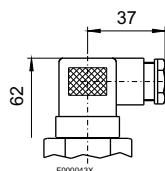
max. voltage

230 V AC/DC

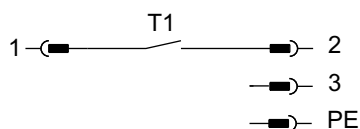
cable connection

PG 11

other connectors on request



### Standard pin assignment



### Order information

Switch function	<b>NO</b> (closer)	.	<b>NC</b> (opener)	
Temperature	Type	Part No.	Type	Part No.
25 °C	TSA-25-M3	11 39 699	TÖA-25-M3	11 42 899
40 °C	TSA-40-M3	11 39 599	TÖA-40-M3	11 43 299
50 °C	TSA-50-M3	11 38 599	TÖA-50-M3	11 42 199
60 °C	TSA-60-M3	11 38 699	TÖA-60-M3	11 43 399
70 °C	TSA-70M3	11 38 799	TÖA-70-M3	11 40 299
80 °C	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 (closer), connector Type M3

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