

Type TF 11

modular @temp

Order Code

TF 11 - - - -

Connecting head

SB (IP54) with screw -cap	1
SBKL (IP65) with hinged lid	2
SBKS (IP54 with hinged lid quick release fastener)	3
SBAKLH (IP65 with high hinged lid (for meas. transducer))	4
SBVA (high-grade-steel 1.4571, IP65), small vers., screw connection	5
SBVAST (high-grade-steel 1.4571, IP65, like 5 w.o.screw conn., M12-plug)	6
SBVAG (high-grade-steel 1.4571, IP65), large version,screw connection)	7
SBVASTG (high-grade-steel, 1.4571, IP65, like 7 w.o. scr.conn., M12-plug)	8
SBVAH (high-grade-steel 1.4571, IP65) large version.,high lids for 2 MT	9
SBVASTH (high-grade-steel 1.4571, IP65, like 9 w.o scr.conn, M12-plug)	10

Fitting length (ML = mouting length), (MEL = measuring element length)

50 mm ML (MEL = 205 mm)	A
100 mm ML (MEL = 255 mm)	B
160 mm ML (MEL = 315 mm)	C
200 mm ML (MEL = 355 mm)	D
250 mm ML (MEL = 405 mm)	E
400 mm ML (MEL = 555 mm)	F
K - Customers preference (Please specify the length)	K

Type of sensor and tolerance

1xPt100, class A, 2-wire	1	A	2
2xPt100, class A, 2-wire	2	A	2
1xPt100, class A, 3-wire	1	A	3
2xPt100, class A 3-wire	2	A	3
1xPt100, class A 3-wire	1	A	4
other type or customized classification on request			K

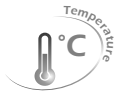
Output signal

Additional name for integrated sensor-head transducer

MUK

Specification of the temperature range

The red marked items are preferred types!



Type TF 12

modular @temp

Temperature sensor according to DIN

Basic features

- ▶ standard-process-adaption with G1/2" process connection thread
- ▶ changeable measuring element (without opening the process)
- ▶ changeable connecting head
- ▶ optional: with free programmable integrated measuring transducer 4...20 mA
- ▶ protective fitting according to DIN 43 763 made of high-grade steel, material No.1.4571
- ▶ optional: calibration certificate according to DIN ISO 9000 ff (see data sheet calibr.-service)

Technical features

- ▶ 1 or 2xPt100 class A
- ▶ sensor lengths from 50 mm to 2500 mm
- ▶ standard-functional range from -50°C to 400°C
- ▶ Alu / High-grade steel connecting head with bolting or M12-plug
- ▶ diameter of protective tube: 9 x 1 mm
- ▶ protection class: (execution-dependently)
- ▶ operating pressure 30 bar max.

Favoured fields of applications are e.g.:

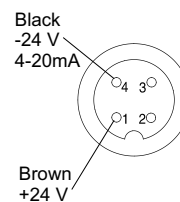
- ▶ standard process application in rough environment
- ▶ standard temperature measuring; measuring in positive pressure- and under-inflation containers and pipings



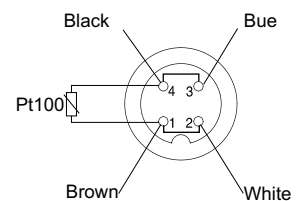
Example: TF12-5-A-1A3

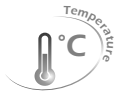
Pin assignment M12-plug

With measuring transducer MUK



Without measuring transducer MUK





Type TF 12

modular @ temp

Order Code

TF 12 - - - -

Connecting head

SB (IP54) with screw -cap	1
SBKL (IP65) with hinged lid	2
SBKS (IP54 with hinged lid quick release fastener)	3
SBAKLH (IP65 with high hinged lid (for meas. transducer)	4
SBVA (high-grade-steel 1.4571, IP65), small vers., screw connection	5
SBVAST (high-grade-steel 1.4571, IP65, like 5 w.o.screw conn., M12-plug)	6
SBVAG (high-grade-steel 1.4571, IP65), large version,screw connection)	7
SBVASTG (high-grade-steel, 1.4571, IP65, like 7 w.o. scr.conn., M12-plug)	8
SBVAH (high-grade-steel 1.4571, IP65) large version.,high lids for 2 MT	9
SBVASTH (high-grade-steel 1.4571, IP65, like 9 w.o scr.conn, M12-plug)	10

Fitting length (ML = mouting length), (MEL = measuring element length)

50 mm ML (MEL = 95 mm)	A
100 mm ML (MEL = 145 mm)	B
160 mm ML (MEL = 205 mm)	C
200 mm ML (MEL = 245 mm)	D
250 mm ML (MEL = 295 mm)	E
400 mm ML (MEL = 445 mm)	F
K - Customers preference (Please specify the length)	K

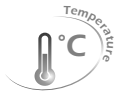
Type of sensor and tolerance

1xPt100, class A 2-wire	1	A	2
2xPt100, class A 2-wire	2	A	2
1xPt100, class A 3-wire	1	A	3
2xPt100, class A 3-wire	2	A	3
1xPt100, class A 4-wire	1	A	4
other type or customized classification on request			K

Output signal

Additional name for integrated sensor-head transducer **MUK**
 Specification of the temperature range

The red marked items are preferred types!



Type TF 13

modular @temp

Temperature sensor insertable and wedgable

Basic features

- ▶ process connection with different clamp boltings
- ▶ variable depth of sensor immersion
- ▶ changeable measuring element (without opening the process)
- ▶ changeable connecting head
- ▶ optional: with free programmable integrated measuring transducer 4...20 mA
- ▶ Wetting parts made of high-grade-steel No. 1.4571
- ▶ aseptic measuring points
- ▶ FDA, EHEDG-conformal
- ▶ optional: calibration certificate according to DIN ISO 9000 ff (see data sheet calibr.-service)



Example: TF13-5-B-1A3-6

Technical features

- ▶ 1 or 2xPt100 class A
- ▶ sensor length from 50 mm to 2500 mm
- ▶ standard-functional range -50°C to 400°C
- ▶ alu / high-grade steel connecting head with bolting or M12-plug
- ▶ adaptable to various clamped boltings
- ▶ protection class: (execution-dependently)
- ▶ operating pressure (execution-dependently)

Pin assignment M12-plug

With measuring transducer MUK

Black
-24 V
4-20mA

Brown
+24 V

Without measuring transducer MUK

Black

Bue

Pt100

Brown

White

Examples clamp boltings



VAPE 25/6



VATE 1/46



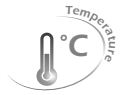
VATE 1/29

Favoured fields of application are e.g.:

- ▶ Standard process application in rough environment
- ▶ standard temperature measuring; measuring in positive pressure- and under-inflation Containers and pipings

See data sheet process connections

modular @process



Type TF 13

modular @temp

Order Code

TF 13 - [] - [] - [] [] [] - [] - []

Connecting head						
SB (IP54) with screw -cap	1					
SBKL (IP65) with hinged lid	2					
SBKS (IP54 with hinged lid quick release fastener)	3					
SBAKLH (IP65 with high hinged lid (for meas. transducer)	4					
SBVA (high-grade-steel 1.4571, IP65), small vers., screw connection	5					
SBVAST (high-grade-steel 1.4571, IP65, like 5 w.o.screw conn., M12-plug)	6					
SBVAG (high-grade-steel 1.4571, IP65), large version,screw connection)	7					
SBVASTG (high-grade-steel, 1.4571, IP65, like 7 w.o. scr.conn., M12-plug)	8					
SBVAH (high-grade-steel 1.4571, IP65) large version.,high lids for 2 MT	9					
SBVASTH (high-grade-steel 1.4571, IP65, like 9 w.o scr.conn, M12-plug)	10					
Fitting length (ML = mouting length), (MEL = measuring element length)						
50 mm ML (MEL = 85 mm)		A				
100 mm ML (MEL = 135 mm)		B				
160 mm ML (MEL = 195 mm)		C				
200 mm ML (MEL = 235 mm)		D				
250 mm ML (MEL = 285 mm)		E				
300 mm ML (MEL = 335 mm)		F				
400 mm ML (MEL = 435 mm)		G				
K - Customers preference (Please specify the length)		K				
Type of sensor and tolerance						
1xPt100, class A 2-wire			1	A	2	
2xPt100, class A 2-wire			2	A	2	
1xPt100, class A 3-wire			1	A	3	
2xPt100, class A 3-wire			2	A	3	
1xPt100, class A 4-wire			1	A	4	
other type or customized classification on request						K
Output signal						
Additional name for integrated sensor-head transducer						MUK
Specification of the temperature range						
Diameter of the protective fitting						
protective fitting Ø 6 x 1 mm						6
protective fitting Ø 9 x 1 mm						9
customers preference						K

The red marked items are preferred types!