

# 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.:

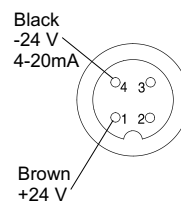
- ▶ standard process application in rough environment
- ▶ standard temperature measuring; measuring in positive pressure- and under-inflation containers and pipings



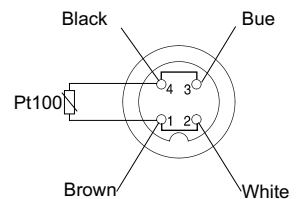
Example: TF12-5-A-1A3

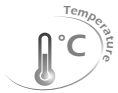
### Pin assignment M12-plug

With measuring transducer MUK



Without measuring transducer MUK





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**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!**