



SNÍMAČE TEPLOTY

Séria TC10-F

TC10F-14369122

Typ K -40-1200°C 250x12mm DN40 form 2F

- Termočlánky K, J, E, N, T
- Teplota -40 až 1200°C
- Pripojenie príruby
- Médiá voda, plyny, oleje
- ATEX, IECEx, SIL2, GOST



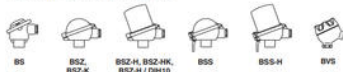
POPIS PRODUKTU

ŠPECIFIKÁCIA

Insertion length	250 mm
Inside diameter	7 mm
Materiál kontaktnej časti	Nerezová oceľ 316Ti
Materiál tela	Hliník
Neck length	0,065 m
Plug diameter	12 mm
Prevádzková teplota max.	1200 °C
Prevádzková teplota min.	-40 °C
Temperature resistance housing from	-40 °C
Temperature resistance housing to	80 °C
Tlaková odolnosť max	16 bar
Trieda krytia	IP65

Connection head

■ European designs per EN 50446 / DIN 43735



Model	Material	Cable entry thread size	Ingress protection (max.) ¹⁾	Cap	Surface	Connection to neck tube
BS	Aluminum	M20 x 1.5 or 1/4 NPT ¹⁾	IP65, IP68	Flat cap with 2 screws	Blue, lacquered ¹⁾	M24 x 1.5, 1/4 NPT
BS2	Aluminum	M20 x 1.5 or 1/4 NPT ¹⁾	IP65, IP68	Spherical hinged cover with cylinder head screw	Blue, lacquered ¹⁾	M24 x 1.5, 1/4 NPT
BS2-H	Aluminum	M20 x 1.5 or 1/4 NPT ¹⁾	IP65, IP68	Raised hinged cover with cylinder head screw	Blue, lacquered ¹⁾	M24 x 1.5, 1/4 NPT
BS2-H (2x cable outlet)	Aluminum	2 x M20 x 1.5 or 2 x 1/4 NPT ¹⁾	IP65, IP68	Raised hinged cover with cylinder head screw	Blue, lacquered ¹⁾	M24 x 1.5, 1/4 NPT
BS2-H / DIN19 ¹⁾	Aluminum	M20 x 1.5 or 1/4 NPT ¹⁾	IP65	Raised hinged cover with cylinder head screw	Blue, lacquered ¹⁾	M24 x 1.5, 1/4 NPT
BS5	Aluminum	M20 x 1.5 or 1/4 NPT ¹⁾	IP65	Spherical hinged cover with clamping lever	Blue, lacquered ¹⁾	M24 x 1.5, 1/4 NPT
BS5-H	Aluminum	M20 x 1.5 or 1/4 NPT ¹⁾	IP65	Raised hinged cover with clamping lever	Blue, lacquered ¹⁾	M24 x 1.5, 1/4 NPT
BVS	Stainless steel	M20 x 1.5 ¹⁾	IP65	Precision-cast screw-on lid	Blank, electropolished	M24 x 1.5
BS2-K	Aluminum	M20 x 1.5 or 1/4 NPT ¹⁾	IP65	Spherical hinged cover with cylinder head screw	Black	M24 x 1.5
BS2-HK	Plastic	M20 x 1.5 or 1/4 NPT ¹⁾	IP65	Raised hinged cover with cylinder head screw	Black	M24 x 1.5

Model	Explosion protection				
	without	Ex (gas) Zone 0, 1, 2	Ex (dust) Zone 20, 21, 22	Ex nA (gas) Zone 3	Ex nL (dust) Zone 22
BS	x	x	>	-	-
BS2	x	x	x	x	x
BS2-H	x	x	x	x	x
BS2-H (2x cable outlet)	x	x	x	x	x
BS2-H / DIN19 ¹⁾	x	x	>	>	>
BS5	x	x	>	>	>
BS5-H	x	x	>	>	>
BVS	x	x	>	>	>
BS2-K	x	x	>	>	>
BS2-HK	x	x	>	>	>

Cable entry



The pictures show examples of connection heads:

Cable entry	Cable entry thread size
Standard cable entry ¹⁾	M20 x 1.5 or 1/4 NPT
Plastic cable gland (cable Ø 6 ... 10 mm) ¹⁾	M20 x 1.5 or 1/4 NPT
Nickel-plated brass cable gland (cable Ø 6 ... 12 mm)	M20 x 1.5 or 1/4 NPT
Stainless steel cable gland (cable Ø 7 ... 12 mm)	M20 x 1.5 or 1/4 NPT
Plain threaded	M20 x 1.5 or 1/4 NPT
2 x M20 x 1.5 ¹⁾	2 x M20 x 1.5
Junction box M12 x 1 (4-pin) ¹⁾	M20 x 1.5
Sealing plugs for transport	M20 x 1.5 or 1/4 NPT

Electrical connection



Protection tube designs in accordance with DIN 43772

Protection tube	Material	Protection tube Ø	Suitable for measuring insert Ø	Connection to head
Straight, form 2F DIN 43772	Stainless steel 1.4571	9 x 1 mm	6 mm	M24 x 1.5 (rotatable threaded connection, male nut)
		11 x 2 mm	8 mm	
		12 x 2.5 mm	8 mm with sleeve Ø 8 mm / 8 mm	
Tapered, form 3F DIN 43772	Stainless steel 1.4571	12 x 2.5 mm, tapered to 9 mm	6 mm	

Protection tube designs in line with DIN 43772, weld-on solid tip

Protection tube	Material	Protection tube Ø	Suitable for measuring insert Ø	Connection to head
Tapered, weld-on solid tip, in line with DIN 43772, non-standard design	Stainless steel 1.4571	9 x 1 mm, tapered to 6 mm	6 mm	M24 x 1.5 (rotatable threaded connection, male nut)
		11 x 2 mm, tapered to 8 mm	8 mm	

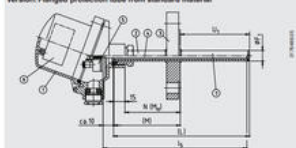
Protection tube designs in line with DIN 43772, wetted parts: special material, gilder flange: stainless steel

Protection tube	Material	Protection tube Ø	Suitable for measuring insert Ø	Connection to head
Straight, in line with form 2F DIN 43772, non-standard design	2.4360 (MonelK50) / stainless steel	13.7 x 2.2 mm	6 mm with sleeve Ø 8 mm / 8 mm	M24 x 1.5 (rotatable threaded connection, male nut)
	2.4819 (Hastelloy C276) / stainless steel			
	2.4619 (Hastelloy C4) / stainless steel			

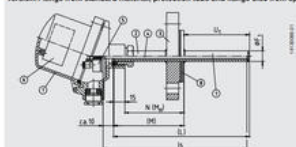
Protection tube designs in line with DIN 43772, tantalum cover with tantalum flange disc, carrier protection tube: stainless steel

Protection tube	Material	Protection tube Ø	Suitable for measuring insert Ø	Connection to head
Straight, in line with form 2F DIN 43772, non-standard design	Tantalum / stainless steel	11 x 2 mm, tantalum cover 12 x 0.4 mm	6 mm	M24 x 1.5 (rotatable threaded connection, male nut)
		15 x 3 mm, tantalum cover 16 x 0.4 mm	8 mm with sleeve Ø 8 mm / 8 mm	
Tapered, in line with form 3F DIN 43772, non-standard design	Tantalum / stainless steel	12 x 2.5 mm, tantalum cover 13 x 0.4 mm	6 mm	

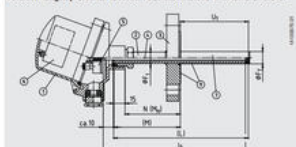
Version: Flanged protection tube from standard material



Version: Flange from standard material, protection tube and flange disc from special materials



Version: Flanged protection tube from standard material with tantalum cover



- Legend:
- 1) Connection head
 - 2) Neck tube
 - 3) Flange
 - 4) Measuring insert (TC10-A)
 - 5) Tantalum block/separator (optional)
 - 6) Transmitter (optional)
 - 7) Protection tube
 - 8) Flange disc from special material
 - 9) Tantalum cover
- L: Overall length of protection tube
L1: Measuring insert length
L2: Protection tube insertion length, in accordance with DIN 43772
L3: Protection tube diameter
L4: Outer diameter of tantalum cover
L5: Neck length
L6: Neck tube length