



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
Material Sensor Body	Inconel - 600
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 ²⁾	IP65, IP68	Flat cap with 2 screws	Blue, lacquered ³⁾	M24 x 1.5, 1/4 NPT
BS2	Aluminum	M20 x 1.5 or 1/4 NPT ²⁾	IP65, IP68	Spherical hinged cover with cylinder head screw	Blue, lacquered ³⁾	M24 x 1.5, 1/4 NPT
BS2-H	Aluminum	M20 x 1.5 or 1/4 NPT ²⁾	IP65, IP68	Raised hinged cover with cylinder head screw	Blue, lacquered ³⁾	M24 x 1.5, 1/4 NPT
BS2-H (Ex cable outlet)	Aluminum	2 x M20 x 1.5 or 2 x 1/4 NPT ²⁾	IP65, IP68	Raised hinged cover with cylinder head screw	Blue, lacquered ³⁾	M24 x 1.5, 1/4 NPT
BS2-H / DH10 ⁴⁾	Aluminum	M20 x 1.5 or 1/4 NPT ²⁾	IP65	Raised hinged cover with cylinder head screw	Blue, lacquered ³⁾	M24 x 1.5, 1/4 NPT
BSS	Aluminum	M20 x 1.5 or 1/4 NPT ²⁾	IP65	Raised hinged cover with clamping lever	Blue, lacquered ³⁾	M24 x 1.5, 1/4 NPT
BSS-H	Aluminum	M20 x 1.5 or 1/4 NPT ²⁾	IP65	Raised hinged cover with clamping lever	Blue, lacquered ³⁾	M24 x 1.5, 1/4 NPT
BVS	Stainless steel	M20 x 1.5 ²⁾	IP65	Precision-cast screw-on lid	Blank, electropolished	M24 x 1.5
BS2-K	Plastic	M20 x 1.5 or 1/4 NPT ²⁾	IP65	Spherical hinged cover with cylinder head screw	Black	M24 x 1.5
BS2-HK	Plastic	M20 x 1.5 or 1/4 NPT ²⁾	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 2	Ex nD (dust) Zone 22
BS	x	x	-	-	-
BS2	x	x	x	x	x
BS2-H	x	x	x	x	x
BS2-H (Ex cable outlet)	x	x	x	x	x
BS2-H / DH10 ⁴⁾	x	x	-	-	-
BSS	x	x	-	-	-
BSS-H	x	x	-	-	-
BVS	x	x	-	-	-
BS2-K	x	x	-	-	-
BS2-HK	x	x	-	-	-

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	6 mm		
		12 x 2.5 mm	6 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 6 mm	6 mm		
		12 x 2.5 mm, tapered to 6 mm	6 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 2.4619 (Hastelloy C276) / stainless steel 2.4610 (Hastelloy C4) / stainless steel 3.7030 (Titan Grade 2) / 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)	

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)	
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		

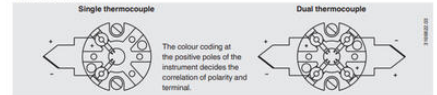
Cable entry



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 ²⁾	2 x M20 x 1.5
Junction box M12 x 1 (4-pin) ³⁾	M20 x 1.5
Sealing plugs for transport	M20 x 1.5 or 1/4 NPT

Electrical connection



Connection head

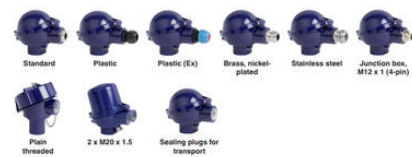
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Model	Explosion protection				
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BS	x	x	-	-	-
BS2	x	x	x	x	x
BS2-H	x	x	x	x	x
BS2-H (Ex cable outlet)	x	x	-	-	-
BS2-H / DH10 ⁴⁾	x	x	-	-	-
BSS	x	x	-	-	-
BSS-H	x	x	-	-	-
BVS	x	x	-	-	-
BS2-K	x	x	-	-	-
BS2-HK	x	x	-	-	-

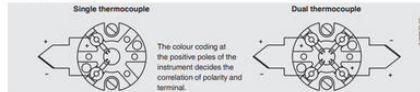
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Stainless steel cable gland (cable Ø 7 ... 12 mm)	M20 x 1.5 or 1/4 NPT
Plain threaded	M20 x 1.5 or 1/4 NPT
2 x M20 x 1.5 ²⁾	2 x M20 x 1.5
Junction box M12 x 1 (4-pin) ³⁾	M20 x 1.5
Sealing plugs for transport	M20 x 1.5 or 1/4 NPT

Electrical connection



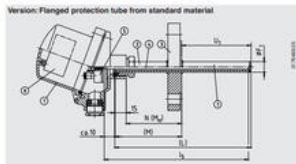
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Protection tube	Material	Protection tube Ø	Suitable for measuring insert Ø	Connection to head	
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		11 x 2 mm	6 mm		
		12 x 2.5 mm	6 mm with sleeve Ø 8 mm / 8 mm		
Tapered, form 3F DIN 43772	Stainless 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 6 mm	6 mm		
		12 x 2.5 mm, tapered to 6 mm	6 mm		

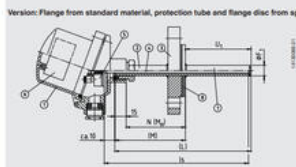
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Protection tube designs in line with DIN 43772, tantalum cover with tantalum flange disc, carrier protection tube: stainless steel					
Protection tube	Material	Protection tube Ø	Suitable for measuring insert Ø	Connection to head	
Straight, in line 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)	
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		

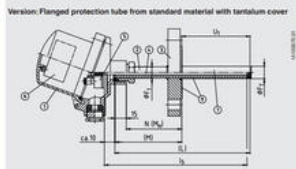
Version: Flanged protection tube from standard material



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



Version: Flanged protection tube from standard material with tantalum cover



- Legend:
- (C) Connection head
 - (N) Neck tube
 - (F) Flange
 - (M) Measuring insert (TC10-A)
 - (T) Terminal (loc/Ar transmitter (option))
 - (R) Transmitter (option)
 - (P) Protection tube
 - (F) Flange disc from special material
 - (T) Tarlatan cover
- (L) Overall length of protection tube
 (L_M) Measuring insert length
 (L_P) Protection tube insertion length in accordance with DIN 43772
 (D_F) Protection tube diameter
 (D_R) Outer diameter of tarlatan cover
 (L_N, M_N) Neck length
 (M) Neck tube length