



SNÍMAČE TEPLOTY

Séria TR10-F

TR10F-14369107

PT100 3-trôd -50-500°C 250x9 DN25 form2F

- PT100, PT1000
- Teplota -196 až 600°C
- Pripojenie príruby
- Médiá voda, plyny, oleje
- ATEX, IECEx, SIL2, GOST



PRODUCT DESCRIPTION

SPECIFICATIONS

Dĺžka	340 mm
Insertion length	250 mm
Inside diameter	7 mm
Materiál kontaktnej časti	Nerezová oceľ 316Ti
Materiál tela	Hliník
Neck length	0,065 m
Plug diameter	9 mm
Prevádzková teplota max.	500 °C
Prevádzková teplota min.	-50 °C
Teplota okolia do	80 °C
Teplota okolia od	-40 °C
Tlaková odolnosť max	16 bar
Trieda krytia	IP65

1 x P100, 2-wire

white red

red white

2 x P100, 2-wire

black yellow

white red

red white

black yellow

1 x P100, 3-wire

white red

red red

white white

2 x P100, 3-wire

black yellow

white red

red red

white white

black black

yellow yellow

1 x P100, 4-wire

white red

red red

white white

black black

yellow yellow

Standard

Plastic

Plastic (Ex)

Brass, nickel-plated

Stainless steel

Junction box, M12 x 1 (4-pin)

Flan threaded

2 x M20 x 1.5

Sealing plugs for transport

						
BS	BSZ, BSZ-K	BSZ-H, BSZ-HK, BSZ-HD D10	BS5	BS5-H	BVS	
Model	Material	Cable entry thread size	Ingress protection (IP)	Cap	Surface	Connection to rack block
BS	Aluminum	M20 x 1.5 or 1.5 NPT ¹⁾	IP65, IP68	Flat cap with 4 screws	Blue, lacquered ¹⁾	M24 x 1.5, 1.5 NPT ¹⁾
BSZ	Aluminum	M20 x 1.5 or 1.5 NPT ¹⁾	IP65, IP68	Spined hinged cover with cylinder head screw	Blue, lacquered ¹⁾	M24 x 1.5, 1.5 NPT ¹⁾
BSZ-H	Aluminum	M20 x 1.5 or 1.5 NPT ¹⁾	IP65, IP68	Raised hinged cover with cylinder head screw	Blue, lacquered ¹⁾	M24 x 1.5, 1.5 NPT ¹⁾
BSZ-HK (excludes cables)	Aluminum	2 M20 x 1.5 or 2 M20 x 1.5 NPT ¹⁾	IP65, IP68	Raised hinged cover with cylinder head screw	Blue, lacquered ¹⁾	M24 x 1.5, 1.5 NPT ¹⁾
BS5	Aluminum	M20 x 1.5 or 1.5 NPT ¹⁾	IP65	Spined hinged cover with clamping lever	Black, anodized ¹⁾	M24 x 1.5, 1.5 NPT ¹⁾
BS5-H	Aluminum	M20 x 1.5 or 1.5 NPT ¹⁾	IP65	Spined hinged cover with clamping lever	Black, anodized ¹⁾	M24 x 1.5, 1.5 NPT ¹⁾
BVS	Stainless steel	M20 x 1.5 ¹⁾	IP65	Sliding cast screw-on cap	Black, electroplated ¹⁾	M24 x 1.5
BSZ-K	Plastic	M20 x 1.5 or 1.5 NPT ¹⁾	IP65	Spined hinged cover with cylinder head screw	Black	M24 x 1.5
BSZ-HK	Plastic	M20 x 1.5 or 1.5 NPT ¹⁾	IP65	Raised hinged cover with cylinder head screw	Black	M24 x 1.5

Model	Explosion protection				
	Without	Ex I (gas) Zone 0, 1, 2	Ex I (dust) Zone 20, 21, 22	Ex mA (gas) Zone 2	Ex to (dust) Zone 22
BS	X	X	X	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 / DM10 H	X	X	X	X	X
BS5	X	X	X	X	X
BS5-H	X	X	X	X	X
BVS	X	X	X	X	X
BS2-2K	X	X	X	X	X
BS2-2K	X	X	X	X	X

Version: flanged protection from standard material

Version: flanged protection 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) Rack tube
- (3) Flange
- (4) Measuring insert (T191-A)
- (5) Transmitter block/transmitter (patent)
- (6) Transmitter (patent)
- (7) Protection tube
- (8) Flange disc from special material
- (9) Tantalum cover

Dimensions

- (L1) Overall length of protection tube
- (L2) Measuring insert length
- (L3) Protection tube insertion length in accordance with DIN 43772
- (L4) Protection tube diameter
- (D F1) Outer diameter of tantalum cover
- (D F2) Rack tube length
- (M) Rack tube length

Protection tube designs

■ **Protection tube in accordance with DIN 43772**

Protection tube, straight, form 3F DIN 43772

Protection tube, tapered, form 3F DIN 43772

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

Protection tube, tapered

Legend:

L1	Insertion length	Φ F1	Outer diameter of protection tube tip
L2	Measuring insert length	Φ F2	Outer diameter of transition cover
L3	Hook length	L3	Overall length of protection tube
D1	Thread cable entry	D4	Measuring insert diameter
D2	Protecting tube diameter		

Protection tube, straight, in line with form 2F DH 43772, non-standard design

■ Protection tube in line with DH 43772, tantalum cover with tantalum flange disc, carrier protection tube stainless steel

Protection tube, straight, in line with form 2F DH 43772, non-standard design

Protection tube, tapered, in line with form 3F DH 43772, non-standard design

Legend:

- L1 Measuring insert length
- L2 Hook length
- Cu Thread collar entry
- D Protection tube diameter

■ D₁ Diameter of protection tube tip

■ D₂ Outer diameter of tantalum cover

■ L Overall length of protection tube

■ D Measuring insert diameter

Protection tube	Material	Protection tube Ø	Suitable for measuring insert Ø	Connection to head
Straight, form 2P DIN 43772 	Stainless steel 1.4571	9 x 1 mm	6 mm	M24 x 1.5 (prostate) Pre-welded connection, male nut
		11 x 2 mm	6 mm with sleeve Ø 8 mm / 9 mm	
		12 x 2.5 mm 14 x 2.5 mm	6 mm	
Tapered, form 3P DIN 43772 	Stainless steel 1.4571	12 x 2.5 mm, tapered to 9 mm	6 mm	M24 x 1.5 (catheter) Pre-welded connection, male nut
		14 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 8 mm	3 mm	M24 x 1.5 (catheter) Pre-welded connection, male nut
		11 x 2 mm, tapered to 8 mm 12 x 2.5 mm, tapered to 8 mm	3 mm	
Protection tube designs in line with DIN 43772, wetted parts: special material, girder flange: stainless steel				
Protection tube	Material	Protection tube Ø	Suitable for measuring insert Ø	Connection to head
Straight, in line with form 2P DIN 43772, non-standard design 	2.4300 (MonelK0) / stainless steel	13.7 x 2.2 mm	6 mm with sleeve Ø 8 mm	M24 x 1.5 (prostate) Pre-welded connection, male nut
	2.4619 (Hastelloy C276) / stainless steel	13.7 x 2.2 mm	6 mm	
	2.4602 (Hastelloy C4) / stainless steel	13.7 x 2.2 mm	6 mm	
	3.7005 (Titan Grade 2) / stainless steel	13.7 x 2.2 mm	6 mm	
	13.7 x 2.2 mm	6 mm		
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 2P 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 (prostate) Threaded connection, male nut
		14 x 2 mm, tantalum cover 16 x 0.4 mm	6 mm with sleeve Ø 8 mm / 9 mm	
		15 x 2 mm, tantalum cover 13 x 0.4 mm	6 mm	
Tapered, in line with form 3P DIN 43772, non-standard design 	Tantalum / stainless steel	12 x 2.5 mm, tantalum cover 13 x 0.4 mm	6 mm	M24 x 1.5 (prostate) Threaded connection, male nut
		14 x 2.5 mm, tantalum cover 13 x 0.4 mm	6 mm	