



SNÍMAČE TEPLOTY TR10-F

Série TR10-F

TR10F-14369107

Snímač teploty PT100 3-tržď -50-500°C 250x9 DN25
form2F

- PT100, PT1000
- Teplota -196 až 600°C
- Připojení příruba
- Média voda, plyny, oleje
- ATEX, IECEx, SIL2, GOST

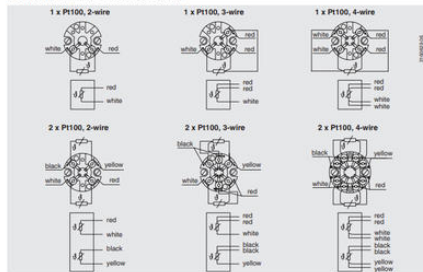


POPIS PRODUKTU

SPECIFIKACE

Délka	340 mm
Insertion length	250 mm
Inside diameter	7 mm
Materiál kontaktní části	Nerez ocel 316Ti
Materiál těla	Hliník
Neck length	0,065 m
Plug diameter	9 mm
Provozní teplota max.	500 °C
Provozní teplota min.	-50 °C
Teplota okolí do	80 °C
Teplota okolí od	-40 °C
Tlaková odolnost	16 bar
Třída krytí	IP65

Electrical connection (colour code per IEC-EN 60719)



Cable entry



The pictures show examples of connection heads.

Cable entry	Cable entry thread size
Standard cable entry ¹⁾	M20 x 1.5 or 1/2 NPT
Plastic cable gland (cable Ø 8 ... 18 mm) ¹⁾	M20 x 1.5 or 1/2 NPT
Nickel-plated brass cable gland (cable Ø 8 ... 12 mm)	M20 x 1.5 or 1/2 NPT
Stainless steel cable gland (cable Ø 7 ... 12 mm)	M20 x 1.5 or 1/2 NPT
Plain threaded	M20 x 1.5 or 1/2 NPT
2 x M20 x 1.5 ¹⁾	M20 x 1.5
Junction box M12 x 1 (4-pin) ¹⁾	M20 x 1.5
Sealing plug for transport	M20 x 1.5 or 1/2 NPT

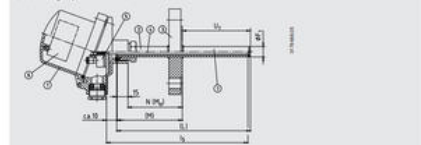
Model	Material	Cable entry thread size	Ingress protection (IP)	Cap	Surface	Connection to neck tube
BS	Aluminum	M20 x 1.5 or 1/2 NPT ¹⁾	IP68, IP69	Flat cap with 2 screws	Black, lacquered ¹⁾	M24 x 1.5, 1/2 NPT
BS2	Aluminum	M20 x 1.5 or 1/2 NPT ¹⁾	IP68, IP69	Spherical hinged cover with cylinder head screw	Black, lacquered ¹⁾	M24 x 1.5, 1/2 NPT
BS2-H	Aluminum	M20 x 1.5 or 1/2 NPT ¹⁾	IP68, IP69	Raised hinged cover with cylinder head screw	Black, lacquered ¹⁾	M24 x 1.5, 1/2 NPT
BS2-H (2x cable outlet)	Aluminum	2 x M20 x 1.5 or 2 x 1/2 NPT ¹⁾	IP68, IP69	Raised hinged cover with cylinder head screw	Black, lacquered ¹⁾	M24 x 1.5
BS2-H / D9110 ¹⁾	Aluminum	M20 x 1.5 or 1/2 NPT ¹⁾	IP68	Raised hinged cover with cylinder head screw	Black, lacquered ¹⁾	M24 x 1.5, 1/2 NPT
BS5	Aluminum	M20 x 1.5 or 1/2 NPT ¹⁾	IP68	Spherical hinged cover with clamping lever	Black, lacquered ¹⁾	M24 x 1.5, 1/2 NPT
BS5-H	Aluminum	M20 x 1.5 or 1/2 NPT ¹⁾	IP68	Raised hinged cover with clamping lever	Black, lacquered ¹⁾	M24 x 1.5, 1/2 NPT
BVS	Stainless steel	M20 x 1.5 ¹⁾	IP68	Precision-rolled screw-on lid	Black, electropolished	M24 x 1.5
BS2-A	Plastic	M20 x 1.5 or 1/2 NPT ¹⁾	IP68	Spherical hinged cover with cylinder head screw	Black, electropolished	M24 x 1.5
BS2-HK	Plastic	M20 x 1.5 or 1/2 NPT ¹⁾	IP68	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 nA (gas) Zone 2	Ex tc (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 / D9110 ¹⁾	x	x	-	-	-
BS5	x	x	-	-	-
BS5-H	x	x	-	-	-
BVS	x	x	-	-	-
BS2-A	x	x	-	-	-
BS2-HK	x	x	-	-	-

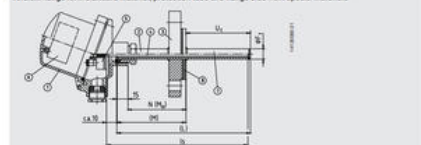
Cable entry	Colour	Ingress protection (max.)	Min. max. ambient temperature	Explosion protection				
				without	Ex i (gas) Zone 0, 1, 2	Ex i (dust) Zone 20, 21, 22	Ex nA (gas) Zone 2	Ex tc (dust) Zone 22
Standard cable entry ¹⁾	Black	IP68	-40 ... +80 °C	x	x	-	-	-
Plastic cable gland	Black or grey	IP68, IP69	-40 ... +80 °C	x	-	-	-	-
Plastic cable gland, Ex e ¹⁾	Light blue	IP68, IP69	-20 ... +80 °C (standard) -40 ... +75 °C (optional)	x	x	-	-	-
Plastic cable gland, Ex e ¹⁾	Black	IP68, IP69	-20 ... +80 °C (standard) -40 ... +75 °C (optional)	x	-	-	x	x
Nickel-plated brass cable gland	Black	IP68, IP69	-60 °C / -40 ... +80 °C	x	-	-	-	-
Nickel-plated brass cable gland, Ex e	Black	IP68, IP69	-60 °C / -40 ... +80 °C	x	x	x	x	x
Stainless steel cable gland	Black	IP68, IP69	-60 °C / -40 ... +80 °C	x	x	-	-	-
Stainless steel cable gland, Ex e	Black	IP68, IP69	-60 °C / -40 ... +80 °C	x	x	x	x	x
Plain threaded	-	IP60	-	x	x	x	x	x
2 x M20 x 1.5 ¹⁾	-	IP68	-40 ... +80 °C	x	x	x	-	-
Junction box M12 x 1 (4-pin) ¹⁾	-	IP68	-40 ... +80 °C	x	x	x	-	-
Sealing plug for transport	Transparent	-	-40 ... +80 °C	not applicable, transport protection	-	-	-	-

Components model TR10-F

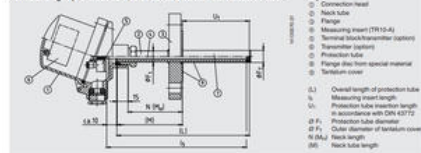
Version: flanged protection tube from standard material



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



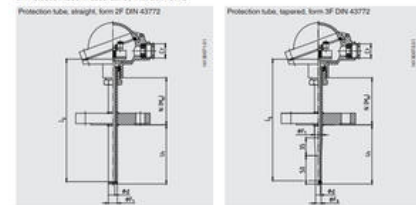
Version: flanged protection tube from standard material with tantalum cover



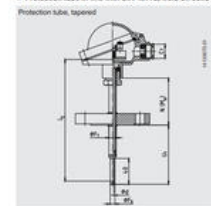
Protection tube

Protection tube designs

Protection tube in accordance with DIN 43772



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



Legend:	
L1: Insertion length	Ø F1: Diameter of protection tube tip
L2: Measuring insert length	Ø F2: Outer diameter of tantalum cover
L3: Back length	L4: Overall length of protection tube
L5: Thread cable entry	L6: Measuring insert diameter
Ø F1: Protection tube diameter	

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



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



Legend:	
L1: Insertion length	Ø F1: Diameter of protection tube tip
L2: Measuring insert length	Ø F2: Outer diameter of tantalum cover
L3: Back length	L4: Overall length of protection tube
L5: Thread cable entry	L6: Measuring insert diameter
Ø F1: Protection tube diameter	

The pictures show examples of connection heads.

Protection tube designs in accordance with DIN 43772

Protection tube	Material	Protection tube Ø	Suitable for measuring insert Ø	Connection to head
Straight, form 3F DIN 43772	Stainless steel 1.4571	9 x 1 mm 11 x 2 mm 12 x 2.5 mm 14 x 2.5 mm	6 mm	M24 x 1.5 (rotatable threaded connection, male nut)
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 11 x 2 mm, tapered to 6 mm 12 x 2.5 mm, tapered to 6 mm	3 mm	M24 x 1.5 (rotatable threaded connection, male nut)

Protection tube designs in line with DIN 43772, welded 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 3F DIN 43772, non-standard design	2.4360 (MonelK50) / stainless steel 2.4819 (Inconel600) / stainless steel 2.4610 (Inconel600) / stainless steel 3.7005 (Titan Grade 2)	13.7 x 2.2 mm	6 mm with sleeve Ø 6 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 3F DIN 43772, non-standard design	Tantalum / stainless steel	11 x 2 mm, tantalum cover 12 x 0.4 mm 15 x 3 mm, tantalum cover 18 x 0.4 mm	6 mm 6 mm with sleeve Ø 6 mm / 8 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	