



SNÍMAČE TEPLOTY

Séria TR10-B

TR10B-14364745

PT100 2-trôd -50-500°C 150x6mm G1/2 NL=50mm

- PT100, PT1000
- Teplota -196 až 600°C
- Pripojenie M, NPT
- Médiá voda, plyny, oleje
- ATEX, IECEx, SIL2, DNV GL

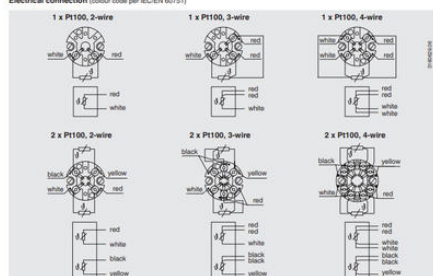


PRODUCT DESCRIPTION

SPECIFICATIONS

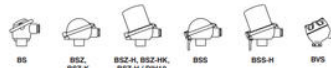
Insertion length	150 mm
Materiál kontaktnej časti	Nerezová oceľ 316Ti
Materiál tela	Hliník
Neck length	0,05 m
Plug diameter	6 mm
Prevádzková teplota max.	500 °C
Prevádzková teplota min.	-50 °C
Teplota okolia do	80 °C
Teplota okolia od	-40 °C
Trieda krytia	IP65

Electrical connection (colour code per IEC-EN 60751)



Connection head

* European designs per EN 50446 / DIN 43735



Model	Material	Cable entry thread size	Ingress protection (max.)	Cap	Surface	Connection to neck tube
BS	Aluminum	M20 x 1.5 or 1/2 NPT	IP65, IP68	Flat cap with 2 screws	Blue, lacquered	M24 x 1.5, 1/2 NPT
BSZ	Aluminum	M20 x 1.5 or 1/2 NPT	IP65, IP68	Spherical fanged cover with cylinder head screw	Blue, lacquered	M24 x 1.5, 1/2 NPT
BSZ-H	Aluminum	M20 x 1.5 or 1/2 NPT	IP65, IP68	Paired fanged cover with cylinder head screw	Blue, lacquered	M24 x 1.5, 1/2 NPT
BSZ-H / DN10	Aluminum	2 x M20 x 1.5 or 2 x 1/2 NPT	IP65, IP68	Paired fanged cover with cylinder head screw	Blue, lacquered	M24 x 1.5
BS5	Aluminum	M20 x 1.5 or 1/2 NPT	IP65	Paired fanged cover with cylinder head screw	Blue, lacquered	M24 x 1.5, 1/2 NPT
BS5-H	Aluminum	M20 x 1.5 or 1/2 NPT	IP65	Spherical fanged cover with clamping lever	Blue, lacquered	M24 x 1.5, 1/2 NPT
BS5-K	Aluminum	M20 x 1.5 or 1/2 NPT	IP65	Paired fanged cover with clamping lever	Blue, lacquered	M24 x 1.5, 1/2 NPT
BS5	Stainless steel	M20 x 1.5	IP65	Precision-cast screw cap with cylinder head screw	Black, electropolished	M24 x 1.5
BSZ-K	Plastic	M20 x 1.5 or 1/2 NPT	IP65	Spherical fanged cover with cylinder head screw	Black	M24 x 1.5
BSZ-KK	Plastic	M20 x 1.5 or 1/2 NPT	IP65	Paired fanged cover with cylinder head screw	Black	M24 x 1.5

Model	Explosion protection	Ex I (gas) Zone 0, 1, 2	Ex I (dust) Zone 20, 21, 22	Ex II (gas) Zone 1	Ex II (dust) Zone 22
BS	X	X	X	X	X
BSZ	X	X	X	X	X
BSZ-H	X	X	X	X	X
BSZ-H / DN10	X	X	X	X	X
BS5	X	X	X	X	X
BS5-H	X	X	X	X	X
BS5-K	X	X	X	X	X
BSZ-K	X	X	X	X	X
BSZ-KK	X	X	X	X	X

Cable entry



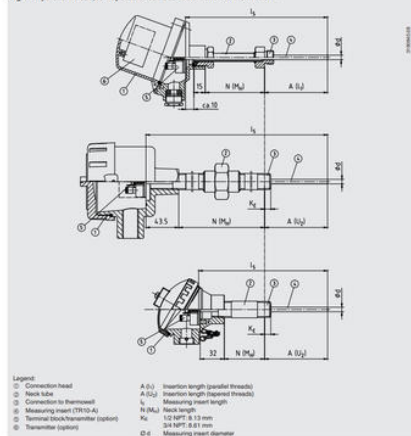
The pictures show examples of connection heads.

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

Cable entry	Colour	Ingress protection (max.)	Min./max. ambient temperature	Explosion protection ambient	Ex I (gas) Zone 0, 1, 2	Ex I (dust) Zone 20, 21, 22	Ex II (gas) Zone 1	Ex II (dust) Zone 22
Standard cable entry	Black	IP65	-40 ... +80 °C	X	X	X	X	X
Plastic cable gland	Black or grey	IP65, IP68	-40 ... +80 °C	X	X	X	X	X
Plastic cable gland, Ex	Light blue	IP65, IP68	-20 ... +80 °C (standard) -40 ... +70 °C (option)	X	X	X	X	X
Plastic cable gland, Ex	Black	IP65, IP68	-20 ... +80 °C (standard) -40 ... +70 °C (option)	X	X	X	X	X
Nickel-plated brass cable gland	Black	IP65, IP68	-40 ... +80 ... +80 °C	X	X	X	X	X
Nickel-plated brass cable gland, Ex	Black	IP65, IP68	-40 ... +80 ... +80 °C	X	X	X	X	X
Stainless steel cable gland	Black	IP65, IP68	-40 ... +80 ... +80 °C	X	X	X	X	X
Stainless steel cable gland, Ex	Black	IP65, IP68	-40 ... +80 ... +80 °C	X	X	X	X	X
Plain threaded	X	IP50	-	X	X	X	X	X
2 x plain threaded	X	IP50	-	X	X	X	X	X
Junction box M12 x 1 (4-pin)	X	IP65	-40 ... +80 °C	X	X	X	X	X
Sealing plugs for transport	Transparent	-	-40 ... +80 °C	not applicable, transport protection	-	-	-	-

Components model TR10-B

Fig. with parallel thread, for tapered thread see "Connection to thermowell"

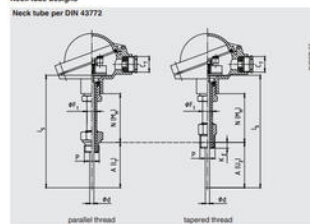


Legend:
 ① Connection head
 ② Neck tube
 ③ Connection to thermowell
 ④ Measuring insert (TR10-B)
 ⑤ Terminal block/transmitter (option)
 ⑥ Transmitter (option)

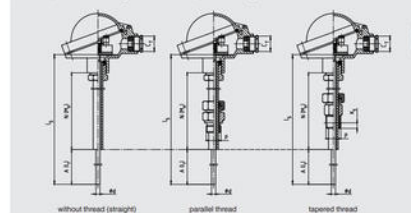
A (L) Insertion length (parallel threads)
 A (L) Insertion length (tapered threads)
 L_M Measuring insert length
 N (M_L) Neck length
 K_L 1/2 NPT 8.13 mm
 3/4 NPT 8.91 mm
 D (d) Measuring insert diameter

Neck tube

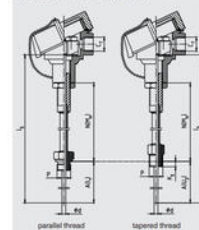
Neck tube designs



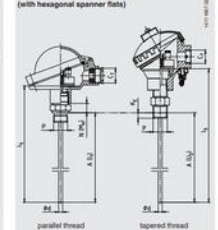
Neck tube per DIN 43772, straight, with/without compression fitting



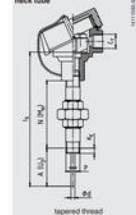
Neck tube, with counter nut to head



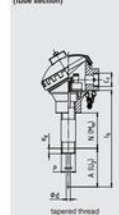
Double threaded hex bushing (with hexagonal spanner flats)



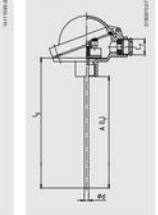
"Nipple-union-nipple" neck tube



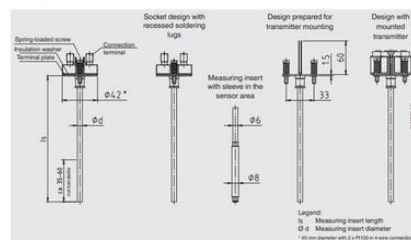
Double threaded hex bushing (tube section)



Without neck tube



Dimensions in mm



Measuring insert diameter Ø d in mm	Index per DIN 43735	Tolerance in mm	Shaft material	Standard design	Reversed soldering lug
3	Standard	3 ±0.05	1.4521, 316L, 1/4	1.4521	
6	Standard	6 ±0.1	1.4521, 316L, 1/4	1.4521	
8	Standard	8 ±0.1	1.4521	1.4521	
8 (8 mm with sleeve)	Standard	8 ±0.1	1.4521, 316L, 1/4	1.4521	

Thermowell selection

