



SNÍMAČE TEPLOTY TR10-B

Série TR10-B

TR10B-14364745

Snímač teploty PT100 2-trád -50-500°C 150x6mm G1/2
NL=50mm



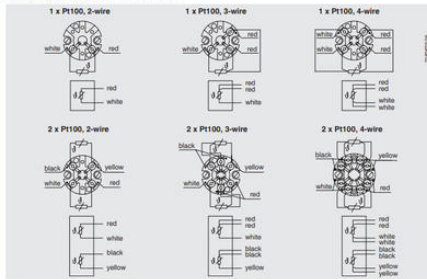
- PT100, PT1000
- Teplota -196 až 600°C
- Připojení M, NPT
- Média voda, plyny, oleje
- ATEX, IECEx, SIL2, DNV GL

POPIS PRODUKTU

SPECIFIKACE

Insertion length	150 mm
Materiál kontaktní části	Nerez ocel 316Ti
Materiál těla	Hliník
Neck length	0,05 m
Plug diameter	6 mm
Provozní teplota max.	500 °C
Provozní teplota min.	-50 °C
Teplota okolí do	80 °C
Teplota okolí od	-40 °C
Třída krytí	IP65

Electrical connection (colour code per IEC-EN 60751)



Connection head

■ European designs per EN 50466 / DIN 43725



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	Blk. lacquered**	M24 x 1.5, 1/2 NPT
BSZ	Aluminum	M20 x 1.5 or 1/2 NPT	IP65, IP68	Spherical hinged cover with cylinder head screw	Blk. lacquered**	M24 x 1.5, 1/2 NPT
BSZ-H	Aluminum	M20 x 1.5 or 1/2 NPT	IP65, IP68	Flanged hinged cover with cylinder head screw	Blk. lacquered**	M24 x 1.5, 1/2 NPT
BSZ-HK	Aluminum	M20 x 1.5 or 1/2 NPT	IP65, IP68	Flanged hinged cover with cylinder head screw	Blk. lacquered**	M24 x 1.5, 1/2 NPT
BSZ-H / DN10	Aluminum	M20 x 1.5 or 1/2 NPT	IP65	Spherical hinged cover with clamping lever	Blk. lacquered**	M24 x 1.5, 1/2 NPT
BSS	Aluminum	M20 x 1.5 or 1/2 NPT	IP65	Spherical hinged cover with clamping lever	Blk. lacquered**	M24 x 1.5, 1/2 NPT
BSS-H	Aluminum	M20 x 1.5 or 1/2 NPT	IP65	Flanged hinged cover with clamping lever	Blk. lacquered**	M24 x 1.5, 1/2 NPT
BVS	Stainless steel	M20 x 1.5	IP65	Precision-cast screw cap	Blk. electropolished	M24 x 1.5
BSZ-K	Plastic	M20 x 1.5 or 1/2 NPT	IP65	Spherical hinged cover with cylinder head screw	Black	M24 x 1.5
BSZ-HK	Plastic	M20 x 1.5 or 1/2 NPT	IP65	Flanged hinged cover with cylinder head screw	Black	M24 x 1.5

Model	Explosion protection				
	without	Ex (apt) Zone 5, 1, 2	Ex (adv) Zone 20, 21, 22	Ex nA (apt) Zone 2	Ex nL (adv) Zone 22
BS	x	x	-	x	x
BSZ	x	x	-	x	x
BSZ-H	x	x	-	x	x
BSZ-H / DN10	x	x	-	-	-
BSS	x	x	-	-	-
BSS-H	x	x	-	-	-
BVS	x	x	-	-	-
BSZ-K	x	x	-	-	-
BSZ-HK	x	x	-	-	-

Cable entry

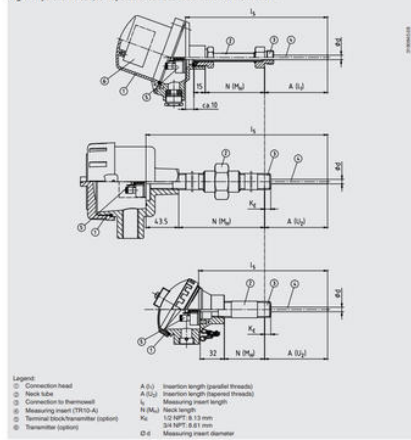


The pictures show examples of connection heads.

Cable entry	Colour	Ingress protection (max.)	Min. max. ambient temperature	Explosion protection (without)	Explosion protection (with)	Explosion protection (with)	Explosion protection (with)
Standard cable entry	Black	IP65	-40...+80 °C	x	x	-	-
Plastic cable gland (cable Ø 6...10 mm)	Black or grey	IP65, IP68	-40...+80 °C	x	-	-	-
Nickel-plated brass cable gland (cable Ø 6...12 mm)	Light blue	IP65, IP68	-20...+80 °C (standard), -40...+70 °C (option)	x	x	-	-
Stainless steel cable gland (cable Ø 7...12 mm)	Black	IP65, IP68	-20...+80 °C (standard), -40...+70 °C (option)	x	-	-	x
Plain threaded	-	IP65	-40...+80 °C	x	x	-	-
2 x plain threaded	-	IP65	-40...+80 °C	x	x	-	-
Junction box M12 x 1 (4-pin)	-	IP65	-40...+80 °C	x	x	-	-
Sealing plug 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"

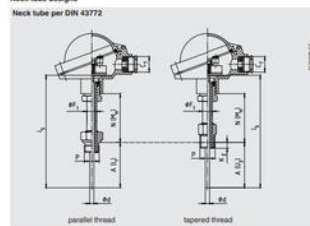


Legend:
 ① Connection head
 ② Neck tube
 ③ Connection to thermowell
 ④ Measuring insert (TW10-A)
 ⑤ Terminal block/transmitter (optional)
 ⑥ Transmitter (optional)

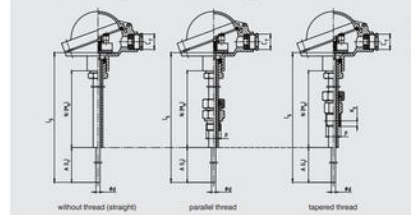
A (s) Insertion length (parallel threads)
 A (t) Insertion length (tapered threads)
 L Measuring insert length
 N (M) Neck length
 K₁ 1/2 NPT, 8.13 mm
 23 NPT, 8.81 mm
 D d Measuring insert diameter

Neck tube

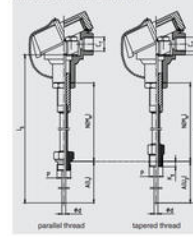
Neck tube designs



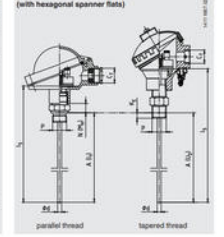
Neck tube per DIN 43772, straight, with/without compression fitting



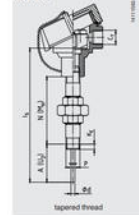
Neck tube, with counter nut to head



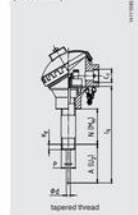
Double threaded hex bushing (with hexagonal spacer ribs)



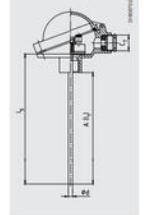
"Nipple-union-nipple" neck tube



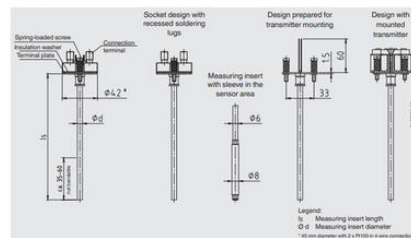
Double threaded hex bushing (tube section)



Without neck tube

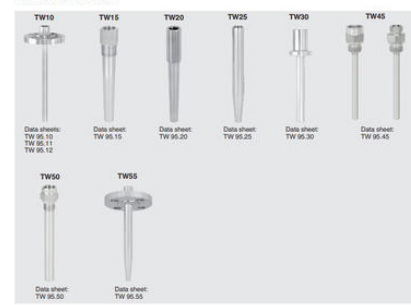


Dimensions in mm



Measuring insert diameter Ø d in mm	Index per DIN 43725	Tolerance in mm	Strain material Standard design	Recessed soldering lugs
3	Standard	± 0.05	1.4571, 316L, 1/8"	1.4571
6	Standard	± 0.1	1.4571, 316L, 1/8"	1.4571
8	Standard	± 0.1	1.4571	1.4571
8 (8 mm with sleeve)	Standard	± 0.1	1.4571, 316L, 1/8"	1.4571

Thermowell selection



TW10 Data sheet: TW 95.11, TW 95.12	TW15 Data sheet: TW 95.15	TW20 Data sheet: TW 95.20	TW25 Data sheet: TW 95.25	TW30 Data sheet: TW 95.30	TW45 Data sheet: TW 95.45
TW50 Data sheet: TW 95.50	TW55 Data sheet: TW 95.55				