



MODSTANDSFØLER TIL SEPARAT DYKLOMME

Serie TR10-B

TR10B-14364745

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

- Måleområde fra -196 til 600°C
- Udskiftelig måleindsats
- Halslængde fra 30mm og op
- PT100 eller PT1000
- Option: SIL2 og ATEX



PRODUKTBESKRIVELSE

Serie TR10-B fra WIKA er en modstandsføler, der er lavet til at kombineres med dykломme. Sensoren leveres med et halsrør i enhver længde, hvilket giver et mere robust design til sensoren, når det monteres med dykломmen.

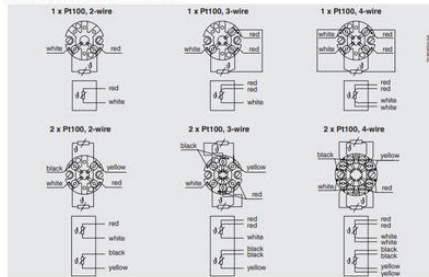
En bredt udvalg af længder, måleområder og tilslutningshoveder er tilgængelige, hvilket betyder, at sensoren kan tilpasses til alle dykломmer og applikationer på markedet.

Som option kan vi indsætte en af WIKAs transmittere i målehovedet for at få et analogt 4-20mA udgangssignal.

SPECIFIKATIONER

Indstikslængde	150 mm
IP-klasse	IP65
Materiale hus	Aluminium
Materiale medieberørte del	Rustfrit stål 316Ti
Neck length	0,05 m
Omgivelsestemperatur fra	-40 °C
Omgivelsestemperatur til	80 °C
Plug diameter	6 mm
Temperaturområde fra	-50 °C
Temperaturområde til	500 °C

Electrical connection (colour code per IEC/EN 60751)



Connection head

* European designs per EN 50446 / DIN 43725

Model	Material	Cable entry thread size	Ingress protection (max.)	Cap	Surface	Connection to neck tube
B5	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
B5Z	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
B5Z-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
B5Z-H / DIN10	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
B5S	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
B5S-H	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
B5S	Stainless steel	M20 x 1.5	IP65	Paired fanged cover with clamping lever	Black, electropolished	M24 x 1.5
B5Z-K	Plastic	M20 x 1.5 or 1/2 NPT	IP65	Spherical fanged cover with cylinder head screw	Black	M24 x 1.5
B5Z-HK	Plastic	M20 x 1.5 or 1/2 NPT	IP65	Paired fanged cover with cylinder head screw	Black	M24 x 1.5

Model	Exposure protection	Ex 1 (mm)	Ex 2 (mm)	Ex 3 (mm)	Ex 4 (mm)	Ex 5 (mm)
B5	X	X	X	X	X	X
B5Z	X	X	X	X	X	X
B5Z-H	X	X	X	X	X	X
B5Z-H / DIN10	X	X	X	X	X	X
B5S	X	X	X	X	X	X
B5S-H	X	X	X	X	X	X
B5S	X	X	X	X	X	X
B5Z-K	X	X	X	X	X	X
B5Z-HK	X	X	X	X	X	X

Cable entry



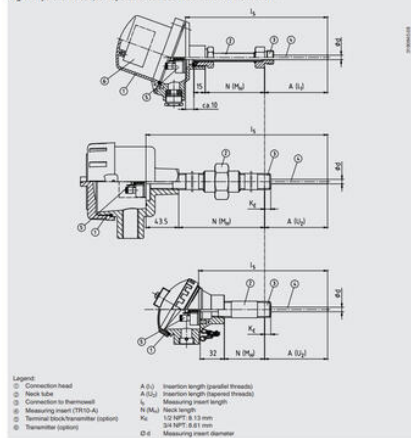
The pictures show examples of connection heads.

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 (p-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	Ex 1 (mm)	Ex 2 (mm)	Ex 3 (mm)	Ex 4 (mm)	Ex 5 (mm)
Standard cable entry	Black	IP65	-40 ... +80 °C	X	X	X	X	X	X
Plastic cable gland	Black or grey	IP65, IP68	-40 ... +80 °C	X	X	X	X	X	X
Plastic cable gland, Ex	Light blue	IP65, IP68	-20 ... +80 °C (optional)	X	X	X	X	X	X
Plastic cable gland, Ex	Black	IP65, IP68	-20 ... +80 °C (optional)	X	X	X	X	X	X
Nickel-plated brass cable gland	Black	IP65, IP68	-40 ... +80 °C	X	X	X	X	X	X
Nickel-plated brass cable gland, Ex	Black	IP65, IP68	-40 ... +80 °C	X	X	X	X	X	X
Stainless steel cable gland	Black	IP65, IP68	-40 ... +80 °C	X	X	X	X	X	X
Stainless steel cable gland, Ex	Black	IP65, IP68	-40 ... +80 °C	X	X	X	X	X	X
Plain threaded	X	IP50	-40 ... +80 °C	X	X	X	X	X	X
2 x plain threaded	X	IP50	-40 ... +80 °C	X	X	X	X	X	X
Junction box M12 x 1 (p-pin)	X	IP65	-40 ... +80 °C	X	X	X	X	X	X
Sealing plugs for transport	Transparent	X	-40 ... +80 °C	Not applicable, transport protection	X	X	X	X	X

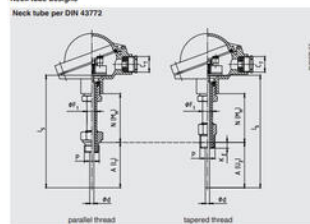
Components model TR10-B

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

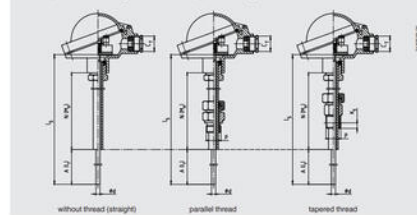


Neck tube

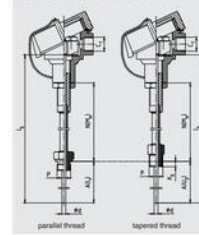
Neck tube designs



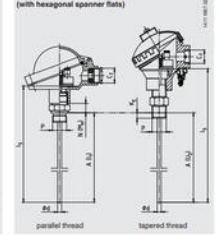
Neck tube per DIN 43772, straight, with/without compression fitting



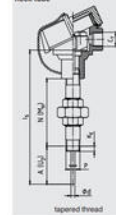
Neck tube, with counter nut to head



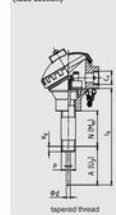
Double threaded hex bushing (with hexagonal spanner flats)



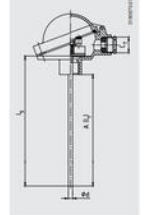
"Nipple-union-nipple" neck tube



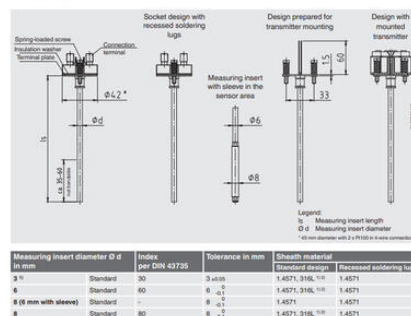
Double threaded hex bushing (tube section)



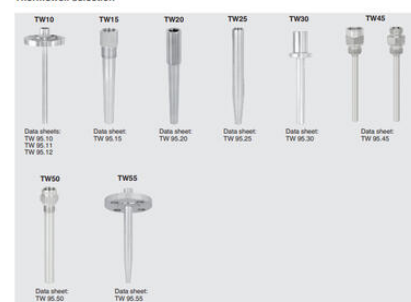
Without neck tube



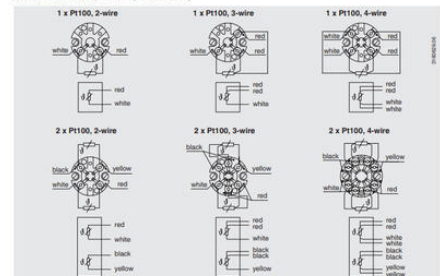
Dimensions in mm



Thermowell selection

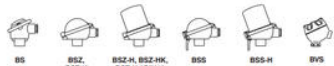


Electrical connection (colour code per IEC/EN 60751)



Connection head

* European designs per EN 50448 / DIN 43735



Model	Material	Cable entry thread size	Ingress protection (max.)	Cap	Surface	Connection to neck tube
B5	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
B5Z	Aluminum	M20 x 1.5 or 1/2 NPT	IP65, IP68	Spherical hinged cover with cylinder head screw	Blue, lacquered	M24 x 1.5, 1/2 NPT
B5Z-H	Aluminum	M20 x 1.5 or 1/2 NPT	IP65, IP68	Raised hinged cover with cylinder head screw	Blue, lacquered	M24 x 1.5, 1/2 NPT
B5Z-H (2x cable outlet)	Aluminum	2 x M20 x 1.5 or 2 x 1/2 NPT	IP65, IP68	Raised hinged cover with cylinder head screw	Blue, lacquered	M24 x 1.5
B5S	Aluminum	M20 x 1.5 or 1/2 NPT	IP65	Spherical hinged cover with clamping lever	Blue, lacquered	M24 x 1.5, 1/2 NPT
B5S-H	Aluminum	M20 x 1.5 or 1/2 NPT	IP65	Spherical hinged cover with clamping lever	Blue, lacquered	M24 x 1.5, 1/2 NPT
BVS	Stainless steel	M20 x 1.5	IP65	Precision-rast screw cap	Black, electropolished	M24 x 1.5
B5Z-K	Plastic	M20 x 1.5 or 1/2 NPT	IP65	Spherical hinged cover with cylinder head screw	Black	M24 x 1.5
B5Z-HK	Plastic	M20 x 1.5 or 1/2 NPT	IP65	Raised hinged cover with cylinder head screw	Black	M24 x 1.5

Model	Explosion protection	Ex I (gas) Zone 1, 2	Ex I (dust) Zone 21, 22	Ex nA (gas) Zone 2	Ex n (dust) Zone 22
B5	x	x	x	x	x
B5Z	x	x	x	x	x
B5Z-H	x	x	x	x	x
B5Z-H (2x cable outlet)	x	x	x	x	x
B5S	x	x	x	x	x
B5S-H	x	x	x	x	x
BVS	x	x	x	x	x
B5Z-K	x	x	x	x	x
B5Z-HK	x	x	x	x	x

Cable entry



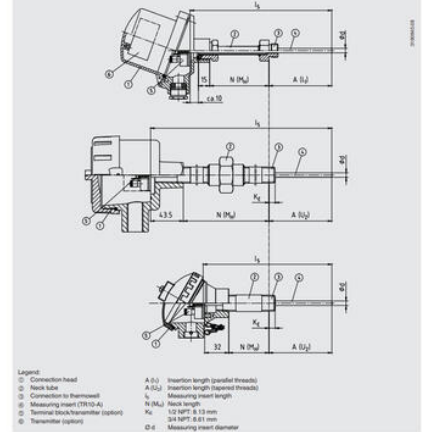
The pictures show examples of connection heads.

Cable entry	Cable entry thread size
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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
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	Ex nA (gas) Zone 2	Ex n (dust) Zone 22
Standard cable entry	Black	IP65	-40 ... +80 °C	x	x	x
Plastic cable gland	Black or grey	IP65, IP68	-40 ... +80 °C	x	x	x
Plastic cable gland, Ex n	Light blue	IP65, IP68	-20 ... +80 °C (standard) -40 ... +70 °C (optional)	x	x	x
Plastic cable gland, Ex n	Black	IP65, IP68	-20 ... +80 °C (standard) -40 ... +70 °C (optional)	x	x	x
Nickel-plated brass cable gland	Black	IP65, IP68	-40 °C / -40 ... +80 °C	x	x	x
Nickel-plated brass cable gland, Ex n	Black	IP65, IP68	-40 °C / -40 ... +80 °C	x	x	x
Stainless steel cable gland, Ex n	Black	IP65, IP68	-40 °C / -40 ... +80 °C	x	x	x
Plain threaded	-	IP00	-	x	x	x
2 x plain threaded	-	IP00	-	x	x	x
Junction box M12 x 1 (4-pin)	-	IP65	-40 ... +80 °C	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"

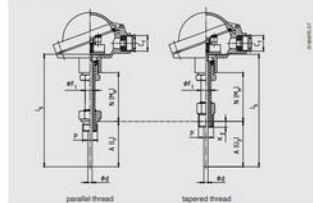


Legend:
 ① Connection head
 ② Neck tube
 ③ Connection to thermowell
 ④ Measuring insert (TR10-A)
 ⑤ Sensor block/thermistor (optional)
 ⑥ Transmitter (optional)

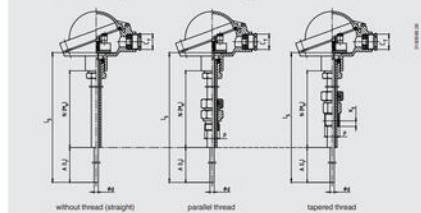
Neck tube

Neck tube design

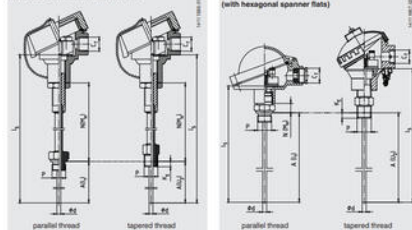
Neck tube per DIN 43772



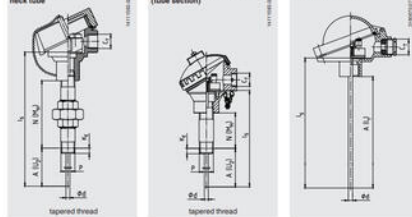
Neck tube per DIN 43772, straight, without/compression fitting



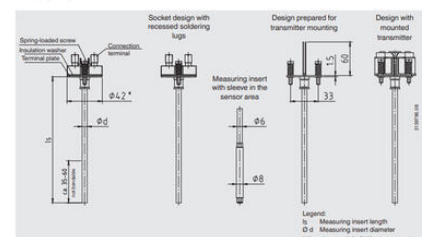
Neck tube, with counter nut to head



"Wiggle-union-ripple" neck tube



Dimensions in mm



Measuring insert diameter Ø d in mm	Index per DIN 43735	Tolerance in mm	Sheath material	Increased ending length
3 1/2	Standard	±0.08	1.4571, 316L, 1/2	1.4571
6	Standard	±0.1	1.4571, 316L, 1/2	1.4571
8 (8 mm with sleeve)	Standard	±0.1	1.4571, 316L, 1/2	1.4571
8	Standard	±0.1	1.4571, 316L, 1/2	1.4571

Thermowell selection

