



RESISTANSGIVARE FÖR SEPARAT DYKRÖR

Serie TR10-B

TR10B-14364745
PT100 2-tråd -50-500°C 150x6mm G1/2 NL=50mm



- Mätområde från -196 till 600°C
- Utbytbar mätingsats
- Nacklängd från 30mm och uppåt
- PT100 eller PT1000
- Option: SIL2 och ATEX

PRODUKTBESKRIVNING

Serie TR10-B från WIKA är en resistansgivare gjord för kan kombination med dykrör. Givaren levereras med ett halsrör av valfri längd, vilket ger en robustare design för givaren vid montering med dykröret.

En bred variation av längder, mätområden och anslutningshuvuden är tillgängliga vilket gör att givaren är anpassningsbar för alla dykrör och applikationer på marknaden.

Som option kan vi sätta in någon av WIKAI's transmitttrar i huvudet för att få en analog 4-20mA utsignal.

TEKNISK DATA

| | |
|------------------------------------|------------------------|
| Anslutning | M24x1,5 till huset |
| Elektrisk anslutning | M20x1,5 |
| Insticksdiameter | 6 mm |
| Instickslängd | 150 mm |
| IP-klass | IP65 |
| Material Hus | Aluminium |
| Material Mediaberörda delar | Rostfritt stål 316Ti |
| Mätprincip | PT100, 2-tråd |
| Mätsensor | Tunnsfilm |
| Nacklängd | 0,05 m |
| Noggrannhet | Klass B enl. IEC 60751 |
| Omgivningstemperatur från | -40 °C |
| Omgivningstemperatur till | 80 °C |

Processanslutning

G1/2"

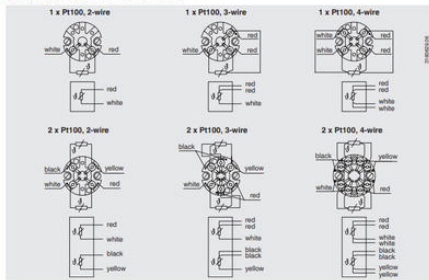
Temperaturområde från

-50 °C

Temperaturområde till

500 °C

Electrical connection (colour code per IEC-EN 60753)



Connection head

■ European designs per EN 50446 / DIN 43735



| Model | Material | Connection thread size | Ingress protection (IP) | Cap | Surface | Connection to neck tube |
|--------------------------|-----------------|--|-------------------------|---|------------------------------|-------------------------|
| BS | Aluminium | M20 x 1.5 or 1/2 NPT ¹⁾ | IP65, IP68 | Flat cap with 2 screws | Blk. lacquered ²⁾ | M20 x 1.5, 1/2 NPT |
| BSZ | Aluminium | M20 x 1.5 or 1/2 NPT ¹⁾ | IP65, IP68 | Spherical hinged cover with cylinder head screw | Blk. lacquered ²⁾ | M20 x 1.5, 1/2 NPT |
| BSZ-H | Aluminium | M20 x 1.5 or 1/2 NPT ¹⁾ | IP65, IP68 | Flanged hinged cover with cylinder head screw | Blk. lacquered ²⁾ | M20 x 1.5, 1/2 NPT |
| BSZ-H (2x cable outlet) | Aluminium | 2 x M20 x 1.5 or 1/2 NPT ¹⁾ | IP65, IP68 | Flanged hinged cover with cylinder head screw | Blk. lacquered ²⁾ | M20 x 1.5, 1/2 NPT |
| BSZ-H/DH10 ³⁾ | Aluminium | M20 x 1.5 or 1/2 NPT ¹⁾ | IP65 | Flanged hinged cover with cylinder head screw | Blk. lacquered ²⁾ | M20 x 1.5, 1/2 NPT |
| BSS | Aluminium | M20 x 1.5 or 1/2 NPT ¹⁾ | IP65 | Spherical hinged cover with changing liner | Blk. lacquered ²⁾ | M20 x 1.5, 1/2 NPT |
| BSS-H | Aluminium | M20 x 1.5 or 1/2 NPT ¹⁾ | IP65 | Flanged hinged cover with changing liner | Blk. lacquered ²⁾ | M20 x 1.5, 1/2 NPT |
| BVS | Stainless steel | M20 x 1.5 ¹⁾ | IP65 | Precision cast screw cap | Blank, electropolished | M20 x 1.5 |
| BSZ-K | Plastic | M20 x 1.5 or 1/2 NPT ¹⁾ | IP65 | Spherical hinged cover with cylinder head screw | Black | M20 x 1.5 |
| BSZ-HK | Plastic | M20 x 1.5 or 1/2 NPT ¹⁾ | IP65 | Flanged hinged cover with cylinder head screw | Black | M20 x 1.5 |

| Model | Explosion protection | | | | |
|--------------------------|----------------------|---------------------|-------------------------|-----------------|--------------------|
| | without | Ex (I) Zone 0, 1, 2 | Ex (II) Zone 20, 21, 22 | Ex A (I) Zone 3 | Ex (I) (D) Zone 23 |
| BS | x | x | - | - | - |
| BSZ | x | x | x | x | x |
| BSZ-H | x | x | x | x | x |
| BSZ-H (2x cable outlet) | x | x | x | x | x |
| BSZ-H/DH10 ³⁾ | x | x | - | - | - |
| BSS | x | x | - | - | - |
| BSS-H | x | x | - | - | - |
| BVS | x | x | - | - | - |
| BSZ-K | x | x | - | - | - |
| BSZ-HK | x | x | - | - | - |

Cable entry



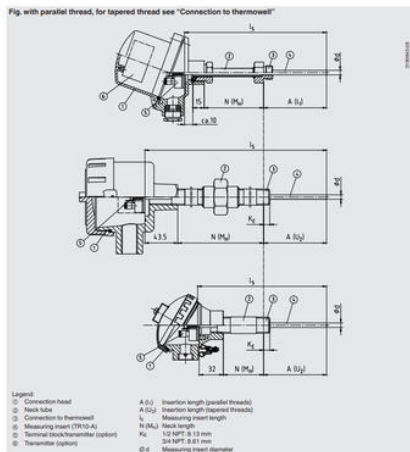
The pictures show examples of connection heads.

| Cable entry | Cable entry thread size |
|---|--------------------------|
| Standard cable entry ¹⁾ | M20 x 1.5 or 1/2 NPT |
| Plastic cable gland (cable Ø 6 - 18 mm) ¹⁾ | 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 ¹⁾ | 2 x M20 x 1.5 or 1/2 NPT |
| Junction box M12 x 1 (4-pin) ¹⁾ | M20 x 1.5 |
| Sealing plug for transport | M20 x 1.5 or 1/2 NPT |

| Cable entry | Colour | Ingress protection (max.) | Min. max. ambient temperature | Explosion protection | | | | |
|--|---------------|---------------------------|--|----------------------|---------------------|--------------------|-----------------|--------------------|
| | | | | without | Ex (I) Zone 0, 1, 2 | Ex (I) (D) Zone 23 | Ex A (I) Zone 3 | Ex (I) (D) Zone 23 |
| Standard cable entry ¹⁾ | Black | IP65 | -40 ... +80 °C | x | x | - | - | - |
| Plastic cable gland ¹⁾ | Black or grey | IP65, IP68 | -40 ... +80 °C | x | x | - | - | - |
| Plastic cable gland, Ex e ¹⁾ | Light blue | IP65, IP68 | -20 ... +80 °C (standard) -40 ... +70 °C (option) | x | x | - | - | - |
| Plastic cable gland, Ex e ¹⁾ | Black | IP65, IP68 | -20 ... +80 °C (standard) -40 ... +70 °C (option) | x | - | - | x | x |
| Nickel-plated brass cable gland | Black | IP65, IP68 | -40 ... +80 °C | x | - | - | - | - |
| Nickel-plated brass cable gland, Ex e | Black | IP65, IP68 | -40 ... +80 °C | x | - | - | - | - |
| Stainless steel cable gland | Black | IP65, IP68 | -40 ... +80 °C | x | x | - | - | - |
| Stainless steel cable gland, Ex e | Black | IP65, IP68 | -40 ... +80 °C | x | x | - | - | - |
| Plain threaded | - | IP60 | -40 ... +80 °C | x | x | x | x | x |
| 2 x plain threaded ¹⁾ | - | IP60 | -40 ... +80 °C | x | x | x | x | x |
| Junction box M12 x 1 (4-pin) ¹⁾ | - | IP65 | -40 ... +80 °C | x | x | x | x | x |
| Sealing plug for transport | Transparent | - | -40 ... +80 °C | - | - | - | - | - |

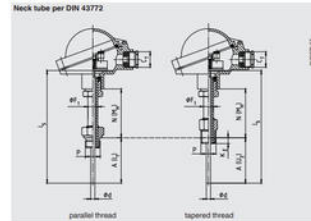
Components model TR10-B

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

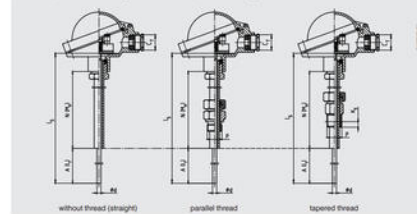


Neck tube

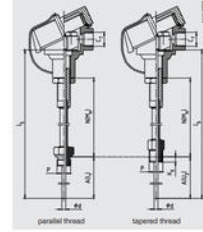
Neck tube designs



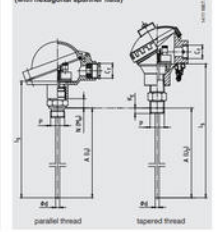
Neck tube per DIN 43772, straight, with/without compression fitting



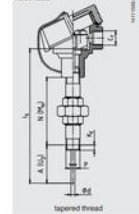
Neck tube, with counter nut to head



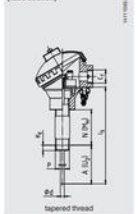
Double threaded hex bushing (with hexagonal spanner flats)



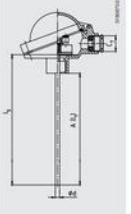
"Ripple-union-ripple" neck tube



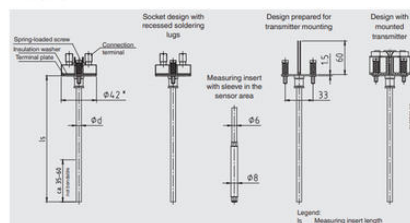
Double threaded hex bushing (tube section)



Without neck tube

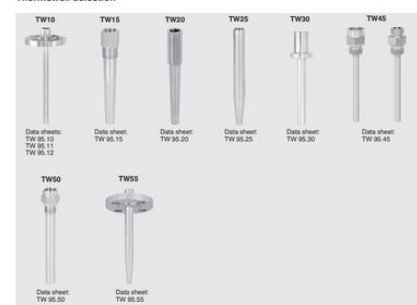


Dimensions in mm



| Measuring insert diameter Ø 8 in mm | Index per DIN 43735 | Tolerance in mm | Sheath material | Temperature range | Special soldering lug |
|-------------------------------------|---------------------|-----------------|-------------------|-------------------|-----------------------|
| 3 | Standard | ±0.03 | 1.4571, 316L, 1.4 | 1.4571 | - |
| 6 | Standard | ±0.03 | 1.4571, 316L, 1.4 | 1.4571 | - |
| 8 (8 mm with sleeve) | Standard | ±0.03 | 1.4571 | 1.4571 | - |
| 8 | Standard | ±0.03 | 1.4571, 316L, 1.4 | 1.4571 | - |

Thermowell selection



| | | | | | |
|---|---------------------|---------------------|---------------------|---------------------|---------------------|
| Data sheet TW 95.05 TW 95.11 TW 95.12 | Data sheet TW 95.15 | Data sheet TW 95.20 | Data sheet TW 95.25 | Data sheet TW 95.30 | Data sheet TW 95.45 |
| Data sheet TW 95.50 | Data sheet TW 95.55 | | | | |