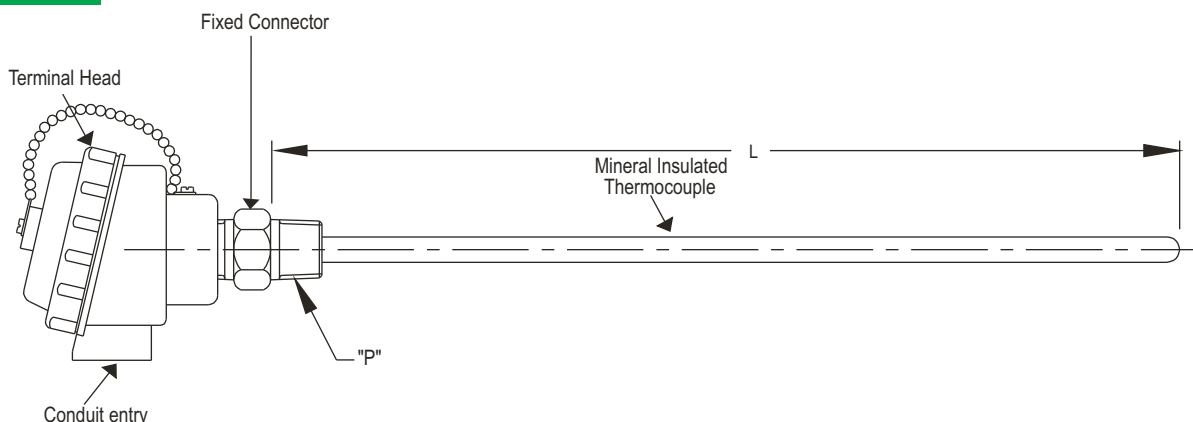


THERMOCOUPLE ASSEMBLY WITH FIXED THREADED CONNECTION

TGI32-3



SPECIAL FEATURES:

- Mineral insulation.
- Spring loaded design for positive contact.
- Available in all sheath diameters and sheath material.
- Mineral insulation enables Thermocouples to be used at high temperature.
- Enclosures in all material - Die cast Aluminium / Cast Iron / SS 304 / SS 316
- Enclosures in all categories (Weatherproof, IP-65 to IP-68), Flameproof GR. IIA IIB and Explosionproof, GR. IIA, IIB, IIC for H₂service application.

APPLICATIONS:

- Such design is generally used in all industries, machinery manufactures, bearing temperature measurement etc. where space is limited.

HOW TO ORDER

| Code | No. Of Elements |
|------|-----------------|
| 1 | Simplex |
| 2 | Duplex |
| 3 | Triplex |

1

| Code | Element Type |
|------|----------------------------------|
| J | Iron-Constantan |
| K | Chromel-Alumel |
| T | Coppe-Constantan |
| E | Chromel-Constantan |
| R | Plat. 13% Rhod. - Plat. |
| S | Plat. 10% Rhod. - Plat. |
| B | Plat. 6% Rhod. - Plat. 30% Rhod. |
| N | Nicrosil - Nisil |

2

| Code | Accuracy |
|------|----------------------------|
| CL1 | Class 1 as per IEC - 584.2 |
| CL2 | Class 2 as per IEC - 584.2 |

3

| Code | Hot Junction Type |
|------|---------------------|
| G | Grounded Junction |
| UG | Ungrounded Junction |

4

| Code | Sheath Diameter |
|---------------------------------|-----------------|
| 3 | 3.0 mm |
| 4.5 | 4.5 mm |
| 6 | 6.0 mm |
| 8 | 8.0 mm |
| Consult factory for other size. | |

5

- Reference standard :- IEC - 584.2

STANDARD PRODUCT DETAILS

| | |
|--------------------------|---|
| No of Elements | - Simplex |
| Element Type | - Chromel-Alumel |
| Accuracy | - Class 2 as per IEC - 584.2 |
| Hot Junction Type | - Ungrounded Junction |
| Sheath Diameter | - 6.0 mm |
| Sheath Material | - SS 316 |
| Terminal Head Type | - Screwed type, weatherproof, IP-65 in die-cast Aluminium |
| No. Of Conduit Entries | - One |
| Conduit Entry Size | - 3/4" ET(F) |
| Head Extension Type | - Fixed Threaded Connector |
| Immersion Length "L" mm- | 300 mm |
| Process Connection "P" | - 1/2"NPT(M) |
| Option Description | - S.C. cable gland in Nickel plated brass |

THERMOCOUPLE ASSEMBLY WITH FIXED THREADED CONNECTION

TGI32-3

| Code | Sheath Material |
|-------|-----------------|
| 316 | SS 316 |
| 310 | SS 310 |
| INC.6 | Inconel 600 |
| INC.8 | Incolloy 800 |

6

| Code | Terminal Head Type |
|------|---|
| SWP | Screwed type, weatherproof, IP-65 in die-cast Aluminium |
| SFP | Screwed type, flamerproof Gr. IIA IIB in die-cast Aluminium |
| SEP | Screwed type, explosionproof Gr.IIC in die-cast Aluminium |
| HWP | Hinged type, weatherproof, IP-65 in die-cast Aluminium |
| JWP | Junction box, weatherproof, IP-65 in die-cast Aluminium |
| JFP | Junction box, flamerproof Gr. IIA IIB in die-cast Aluminium |
| JEP | Junction box, explosionproof Gr.IIC in die-cast Aluminium |
| BWP | Weatherproof Head, IP-65 in die-cast Aluminium with cover fitted with two screws. |

7

| Code | No. Of Conduit Entry/Entries |
|------|------------------------------|
| 1 | One |
| 2 | Two |
| | Other, Please Specify |

8

| Code | Conduit Entry Size |
|------|-----------------------|
| A | 3/4" ET(F) |
| B | 1/2"NPT(F) |
| C | 3/4"NPT(F) |
| | Other, Please Specify |

9

| Code | Head Extension Type |
|------|--------------------------|
| FC | Fixed Threaded Connector |

10

| Code | Immersion Length 'IL'/Element Length "L" mm |
|------|---|
| | Specify in mm. |

11

| Code | Process conn. "P" |
|------|-----------------------|
| A | 1/2"NPT(M) |
| B | 1/2"BSP(M) |
| C | 3/4"NPT(M) |
| D | 3/4"BSP(M) |
| | Other, Please Specify |

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| Code | Option Description |
|------|---|
| 0 | None |
| 3 | Terminal head in SS 304 |
| 4 | Terminal head in SS 316 |
| 5 | Terminal head in Cast Iron |
| 6 | S.C. cable gland in nickel plated brass |
| 7 | D.C. cable gland in nickel plated brass |
| 8 | S.C. cable gland in SS 304 |
| 9 | D.C. cable gland in SS 304 |
| 11 | S.C. cable gland in SS 316 |
| 12 | D.C. cable gland in SS 316 |
| 13 | Head mounted temp. transmitter |
| 14 | S.S. base plate suitable for Temperature Transmitter mounting |
| 20 | Plug for conduit entry in Carbon Steel [ASTM A105] |
| 21 | Plug for conduit entry in SS 304 |
| 22 | Plug for conduit entry in SS 316 |
| 23 | Plug for conduit entry in Aluminium |
| PW | Five Point Factory Calibration Certificate |
| SX | SS Tag Plate |

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Note :

- When selecting option "PW", please also specify measuring temperature range.(For e.g. 0/300°C)
- Explanations of Abbreviations used:
SC = Single Compression
DC = Double Compression
SS = Stainless Steel

(Ordering Example)

| | | | | | | | | | | | | | |
|----------------|---|---|-----|----|---|-----|-----|---|---|----|-----|----|----|
| TGI32-3 | 1 | K | CL2 | UG | 6 | 316 | SWP | 1 | A | FC | 300 | A | 6 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |