

## Thermocouple Bayonet sensor Series GF-7012

### PRODUCT FEATURES

- ✓ Thermocouples  
acc. to DIN EN 60584
- ✓ High precision thermo cable
- ✓ High precision measuring system
- ✓ Single / double measuring system
- ✓ Electrical isolated or not isolated
- ✓ Pure silver interior design
- ✓ Durable
- ✓ Process and failsafe
- ✓ Temperature and long term stable
- ✓ ATEX version
- ✓ FDA / CE compliant version

### TECHNICAL DETAILS

#### Thermo voltage

Fe-CuNi/J-L, NiCr-Ni/K, Pt-RhPt/S-R

#### Diameter

4,76 mm - 10,00 mm in standard

#### Form of the measuring tip

118° angled, plan, convex, spherical

#### Bayonet lock

Nickel-plated steel or stainless steel  
VK-05/VK-14/VK-17/VK-19/VK-21

#### Kink protection-/ threaded spring

- Stainless steel / Inconel up to 1000 mm
- Standard 180 mm
- Standard 250 mm

#### Process temp. at the measuring tip

Up to +600°C depending on version

#### Process-connection adapter

Metric or Zoll up to 300mm

#### High - quality cable types

Thermocouple cables  
All available versions

#### Connectivity

Free ends, plug, special

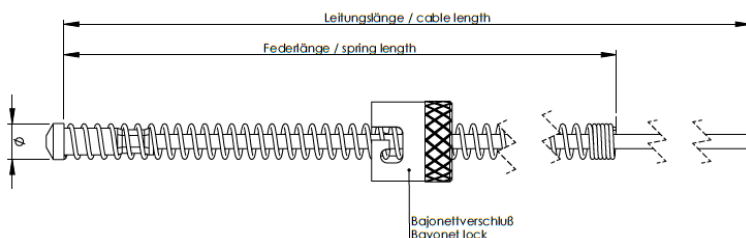
#### Special version


Customized, on request

|   |         |     |      |     |    |    |       |                 |        |
|---|---------|-----|------|-----|----|----|-------|-----------------|--------|
| <b>Standard version</b>   |         |     |      |     |    |    |       |                 |        |
|   | GF-7012 |     |      |     |    |    |       |                 |        |
| <b>Special version</b>  |         |     |      |     |    |    |       |                 |        |
| ceramically isolated , measuring tip brass<br>(only available in diameter 6 mm) |         | B   |      |     |    |    |       |                 |        |
| ceramically isolated , measuring tip stainless steel                            |         | B-S |      |     |    |    |       |                 |        |
| Customized special version  |         | C   |      |     |    |    |       |                 |        |
| Measuring tube 6/8 mm   |         | L   |      |     |    |    |       |                 |        |
| ATEX  |         | EX  |      |     |    |    |       |                 |        |
| <b>Number of measuring systems</b>  |         |     |      |     |    |    |       |                 |        |
| 1 x   |         |     | 1    |     |    |    |       |                 |        |
| 2x  |         |     | 2    |     |    |    |       |                 |        |
| <b>Type of element</b>  |         |     |      |     |    |    |       |                 |        |
| Fe-CuNi Type J  |         |     | FK-J |     |    |    |       |                 |        |
| Fe-CuNi Type L  |         |     | FK-L |     |    |    |       |                 |        |
| Fe-CuNi Type K  |         |     | NC   |     |    |    |       |                 |        |
| Check element selection   |         |     |      |     |    |    |       |                 |        |
| <b>Electrical properties</b>  |         |     |      |     |    |    |       |                 |        |
| Grounded  |         |     | e    |     |    |    |       |                 |        |
| Isolated  |         |     | i    |     |    |    |       |                 |        |
| <b>Diameter of the measuring tube</b>   |         |     |      |     |    |    |       |                 |        |
| 6 mm  |         |     |      | 6   |    |    |       |                 |        |
| 8 mm  |         |     |      | 8   |    |    |       |                 |        |
| 5/8/10 mm   |         |     |      | 5/8 |    |    |       |                 |        |
| 6/8 mm  |         |     |      | 6/8 |    |    |       |                 |        |
| Customized special version  |         |     |      |     |    |    |       |                 |        |
| <b>Measuring tube form (check graphic below)</b>                                |         |     |      |     |    |    |       |                 |        |
| Angled 118°   |         |     |      |     | W  |    |       |                 |        |
| Plan  |         |     |      |     | P  |    |       |                 |        |
| Convex  |         |     |      |     | B  |    |       |                 |        |
| Spherical   |         |     |      |     | K  |    |       |                 |        |
| Graduated 5/8/10 mm   |         |     |      |     | RF |    |       |                 |        |
| Customized special version  |         |     |      |     |    |    |       |                 |        |
| <b>Spring length</b>  |         |     |      |     |    |    |       |                 |        |
| 180 mm  |         |     |      |     |    | 18 |       |                 |        |
| 250 mm  |         |     |      |     |    | 25 |       |                 |        |
| Mention in mm   |         |     |      |     |    |    |       |                 |        |
| <b>Bayonet version</b>  |         |     |      |     |    |    |       |                 |        |
| VK-05 (ID=8,2mm)  |         |     |      |     |    |    | VK-05 |                 |        |
| VK-14 (ID=12,4mm)   |         |     |      |     |    |    | VK-14 |                 |        |
| VK-17 (ID=15,4mm)   |         |     |      |     |    |    | VK-17 |                 |        |
| VK-19 (ID=16,5mm)   |         |     |      |     |    |    | VK-19 |                 |        |
| VK-21 (ID=15,5mm-pin version)   |         |     |      |     |    |    | VK-21 |                 |        |
| Further versions on request   |         |     |      |     |    |    |       |                 |        |
| <b>Thread adapter with wrench size or round</b>                                 |         |     |      |     |    |    |       |                 |        |
| without   |         |     |      |     |    |    | -     |                 |        |
| GN-40x30 (M10x1 x length)   |         |     |      |     |    |    | 40    |                 |        |
| GN-41x30 (M12x1 x length)   |         |     |      |     |    |    | 41    |                 |        |
| GN-42-30 (M14x1,5 x length)   |         |     |      |     |    |    | 42    |                 |        |
| GN-43x30 (G1/4 x length)  |         |     |      |     |    |    | 43    |                 |        |
| Further versions on request   |         |     |      |     |    |    |       |                 |        |
| <b>Cable length in mm</b>   |         |     |      |     |    |    |       |                 |        |
| Mention in mm   |         |     |      |     |    |    | XXXX  |                 |        |
| <b>Cable type</b>   |         |     |      |     |    |    |       |                 |        |
| Glass fiber - Glass fiber - stainless steel braid                               |         |     |      |     |    |    |       | without mention |        |
| Glass fiber - Glass fiber - stainless steel braid - PTFE                        |         |     |      |     |    |    |       | GL-GL-PVA-TE    |        |
| R - Glass fiber - R - Glass fiber - stainless steel braid                       |         |     |      |     |    |    |       | RGL-RGL-PVA     |        |
| Check cable types   |         |     |      |     |    |    |       |                 |        |
| <b>Connection</b>   |         |     |      |     |    |    |       |                 |        |
| Free Ends, 60 mm  |         |     |      |     |    |    |       |                 | A      |
| Check ends  |         |     |      |     |    |    |       |                 | PRF    |
| Thermo plug „S“ Standard / „M“ Mini   |         |     |      |     |    |    |       |                 | TSTXS  |
| Round plug bayonet lock   |         |     |      |     |    |    |       |                 | CST3PB |
| Round plug screw lock   |         |     |      |     |    |    |       |                 | CST3PS |
| Check plug types  |         |     |      |     |    |    |       |                 |        |
| <b>Temperature measuring tip</b>  |         |     |      |     |    |    |       |                 |        |
| Mention in °C   |         |     |      |     |    |    |       |                 | 400°C  |

Order code (example) → GF-7012/ B. 1. FK-J. e. 6. W. 18. VK-14. XX. 3000. CST3PS. 400°C

MEASURES





**DIGITAL DATA**  
2D, 3D and CAD

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