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### EPIC<sup>®</sup> SENSORS T-K / T-AK / T-AKK Immersible thermocouple sensor

DATASHEET 9

#### Features

- similar to DIN 43733
- temperature range -200...+1600 °C
- thermocouple as sensing element
- thermocouple accuracy class 1 as standard delivery
- ceramic thermowell with C610 or C799 as typical material, other materials on request
- ceramic C610 and C799 are gas-tight materials
- typical neckpipe materials AISI304/316L
- thermo-cement filling in between neckpipe and ceramic
- installation recommendation with weldable flange, adjustable flange or with gas tight compression fitting
- tailored solutions according to customer specific needs
- ATEX and IECEx compatible Ex i versions available
- 3D step models available on request.

### **Typical applications**

- very high temperature applications
- energy and power plant technology
- process industry
- chemical industry
- machinery and vessel construction
- manufacturing industry.



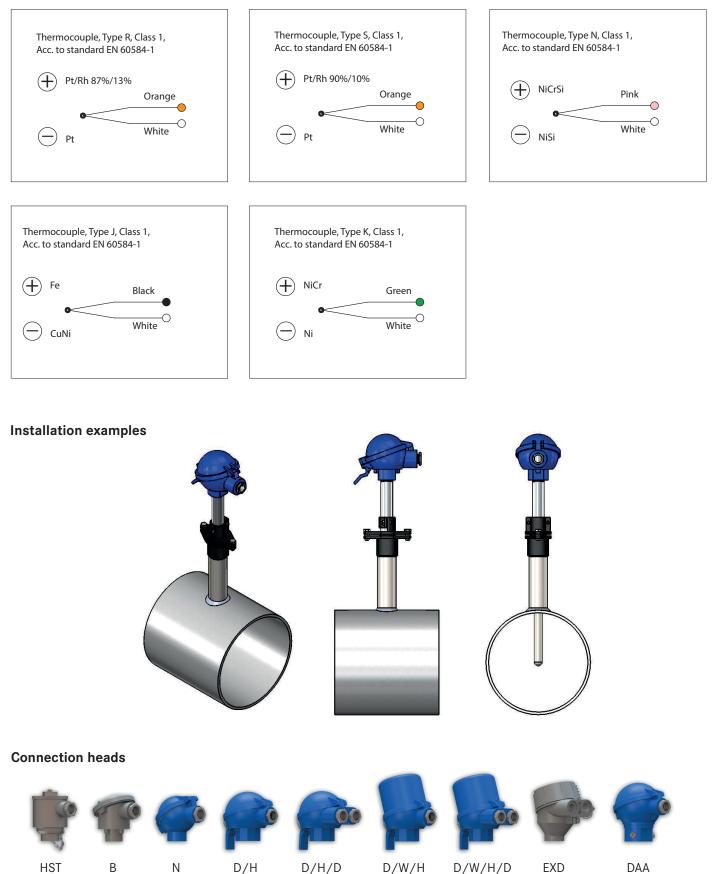
### **Technical data**

| Thermowell material                    | Ceramic C610 max. temperature + 1500 °C, gas-tight, medium to good thermal shock resistance<br>Ceramic C799 max. temperature + 1600 °C, gas-tight, medium thermal shock resistance<br>Other materials on request                               |
|--|--|
| Tolerances thermocouple<br>(IEC 60584) | Type J tolerance class 1 = -40+375 °C ±1.5 °C, +375+750 °C +/- 0.004 x t<br>Type K and N tolerance class 1 = -40+375 °C ±1.5 °C, +3751000 °C ±0.004 x t<br>Type R and S tolerance class 1 = 0+1100 °C ±1 °C, 11001600 °C ±[1+0.003(t-1100)] °C |
| Temperature range                      | -200+1700 °C, depending on thermocouple type, thermowell material and neck pipe length   |
| Approvals                              | ATEX, IECEX, EAC EMC, METROLOGICAL PATTERN APPROVAL  |
| Quality certificate                    | ISO 9001:2015 and ISO 14001:2015 issued by DNV   |
| IP rating                              | IP65, higher IP rating on request  |

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#### **Thermoelement connections**



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