Safety Thermocouple Sensor TC293

Characteristics
- Fast response sensor for measurement in exhaust gas and air
- Certified as Sensor for Safety Temperature Limiters STL50 for gaseous media acc. to SIL 2 (DIN EN 61508) and DIN EN 14597 (substitute DIN 3440)
- Ex certified to ATEX Ex-i GD for gases and dust
- Sensor with 2 x thermocouples J, K or N, isolated
- Max. operating temperature depends to the thermocouple
- Process pressure 25 bar
- Protection tube D = 9/3 mm, Inconel 600 W-No. 2.4816
- Process connection clamp gland G ½ B
- Terminal head BSZ (Aluminum) IP65 with snap-lid

Temperature equalization
The 63.2 % step-response time of temperature variation at the probe tip will be:

<table>
<thead>
<tr>
<th>Medium</th>
<th>T63.2%</th>
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</thead>
<tbody>
<tr>
<td>Exhaust</td>
<td>typical 20 s</td>
</tr>
<tr>
<td>Air</td>
<td>typical 22 s</td>
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</tbody>
</table>

Ordering code

1. Type
   TC293

2. Variation
   00 Standard
   Ex Ex certified acc. to ATEX Ex-i GD

3. Double-thermocouple
   2J type J (Fe-CuNi) operating temperature -100..+600 °C cable color black(+), white(-)
   2K type K (NiCr-Ni) operating temperature -100..+900 °C cable color green(+), white(-)
   2N type N (NiCrSi-NiSi) operating temperature -100..+1000 °C cable color pink(+), white(-)

4. Protection tube diameter
   9/3 9mm to 3mm reduced

5. Installation length NL
   100 100 mm
   160 160 mm
   250 250 mm
   400 400 mm
   600 600 mm
   XX custom length

6. Process connection
   KV ½ B clamping sleeve slide-able ¼ "

7. Terminal head
   BSZ with snap-lid (Aluminum)

8. Max. operating temperature
   see thermocouple type

(Custom variation on request)