EXPLOSION PROOF CSA/us
Industrial temperature sensors Ex d

Specifications:

Series: XPS-30.000

**CONNECTION HEAD**

Type: weatherproof with screw on cover
Material: cast-aluminium (SS up on request)
Max. temperature: 80 °C
Conduit entry thread: 3/4” NPT standard; if 1/2” NPT, BSP or metric thread, please specify

**EXTENSION**

Type: adjustable nipple with locknut
Material: Stainless steel
Length: approx. 175 mm; other lengths optional
Process connection: 1/2” NPT, male thread

**INSERT**

Type: approved thermocouple or resistance insert (see A103r)
Insertion length below nipple: to be specified; replace box behind ordering code
Insert length: A + 221 mm

**THERMOWELL**

Type: any type of thermowell; to be specified separately

**APPROVAL**

Classification: Class 1, Zone 1, Ex d IIC T6...T1
Certificate number: 247407
Protection category: 'd' flame proof enclosure
Explosion group: IIC
Temperature Class: T6...T1

Also available in ATEX, IEC, TR CU and KTL.

The cable gland shall be a certified model and is not part of the approval.

**Ordering code:**

<table>
<thead>
<tr>
<th>Probe type</th>
<th>CAST-ALUMINIUM HEAD</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Single</td>
</tr>
<tr>
<td>J</td>
<td>4.8 mm</td>
</tr>
<tr>
<td>K</td>
<td>4.8 mm</td>
</tr>
<tr>
<td>T</td>
<td>4.8 mm</td>
</tr>
<tr>
<td>N</td>
<td>4.8 mm</td>
</tr>
<tr>
<td>Pt 100</td>
<td>6.0 mm</td>
</tr>
</tbody>
</table>

□ = immersion length 'A' in mm (to be specified)
MI-CABLE TC/PT100 INSERTS
for Thermo Electric Ex d approved sensors CSA/us

Specifications:

Probe type: mineral insulated
Outside diameter: 4.8 mm (3/16”)
Insulation material: densely packed MgO
Min. insulation resistance: 10 Mohm at ambient temperature with, 200 V DC
Termination: ceramic DIN terminal block with clamp, type terminals
Max. spring loading: 10 mm
Probe length ‘A’: to be specified

THERMOCOUPLE
Type:
- iron-constantan, type J
- chromel-alumel, type K
- copper-constantan, type T
- nicrosil-nisil, type N

Standard limits of error: ANSI MC 96.1 / IEC 60584
Sheath material:
- SS 316 for type J and T (Wstnr.1.4401);
- Inconel 600 for type KN (Wstnr.2.4816)
Hot junction: insulated, individually insulated for duplex
Probe diameter: 4.8 mm or 6.0mm please specify

RESISTANCE THERMOMETER
Element type: Pt 100, single or duplex
Resistance values and tolerances: IEC 60751 class B
Max. voltage: 5 V (10 mA)
Wiring system: 3 wires from element
Probe diameter: 6 mm

These items fit standard Ex d temperature sensors series XPS-30.000 see page A103

Ordering code:

<table>
<thead>
<tr>
<th>Probe type</th>
<th>Single</th>
<th>Duplex</th>
</tr>
</thead>
<tbody>
<tr>
<td>J 4.8 mm</td>
<td>TEE-60482- J -□ mm</td>
<td>TEE-62484- J -□ mm</td>
</tr>
<tr>
<td>K 4.8 mm</td>
<td>TEE-60482- K -□ mm</td>
<td>TEE-62484- K -□ mm</td>
</tr>
<tr>
<td>T 4.8 mm</td>
<td>TEE-60482- T -□ mm</td>
<td>TEE-62484- T -□ mm</td>
</tr>
<tr>
<td>N 4.8 mm</td>
<td>TEE-60482- N -□ mm</td>
<td>TEE-62484- N -□ mm</td>
</tr>
<tr>
<td>Pt 100 6.0 mm</td>
<td>RTD-60603- Pt100 -□ mm</td>
<td>RTD-62606- Pt100 -□ mm</td>
</tr>
</tbody>
</table>

□ = probe length ‘A’ in mm (to be specified)