EXPLOSION PROOF CSA/us
Industrial temperature sensors Exe / AExe

Specifications:

**Series**
- XPS-10.000

**CONNECTION HEAD**
- Type: weatherproof with screw on cover
- Material: cast-aluminium or cast-iron
- Conduit entry thread: 3/4" NPT standard; if 1/2" NPT, BSP, or metric thread, please specify

**EXTENSION**
- Type: nipple-union-nipple
- Material: stainless steel
- Length: approx. 160 mm; other lengths optional
- Process connection: 1/2" NPT, male thread

**INSERT**
- Type: approved thermocouple or resistance insert A/101r
- Insertion length below nipple: to be specified; replace box behind ordering code
- Insert length: A + 216 mm

**THERMOWELL**
- Type: any type of thermowell to be specified

**APPROVAL**
- Classification: Class I, Zone 1, Exe II T6…T1
- Certificate number: 247407
- Protection category: ‘e’ increased safety,
- Explosion group: II
- Temperature class: T6-T1
- Applicable standards:
  - Also available ATEX, IEC, TR CU and KTL

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

**CAST-ALUMINIUM HEAD**

<table>
<thead>
<tr>
<th>Probe type</th>
<th>Single</th>
<th>Duplex</th>
</tr>
</thead>
<tbody>
<tr>
<td>J 4.8 mm</td>
<td>XPS-15101-</td>
<td>J &lt; mm</td>
</tr>
<tr>
<td>K 4.8 mm</td>
<td>XPS-15101-</td>
<td>K &lt; mm</td>
</tr>
<tr>
<td>T 4.8 mm</td>
<td>XPS-15101-</td>
<td>T &lt; mm</td>
</tr>
<tr>
<td>N 4.8 mm</td>
<td>XPS-15101-</td>
<td>N &lt; mm</td>
</tr>
<tr>
<td>Pt 100</td>
<td>XPS-15101-</td>
<td>Pt100 &lt; mm</td>
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</tbody>
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**CAST-IRON HEAD**

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<td>XPS-15201-</td>
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*= immersion length ‘A’ in mm (to be specified)
MI-CABLE TC / Pt100 INSERTS
for Thermo Electric Ex e 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: 50 mm
Probe length 'A': to be specified

THERMOCOUPLE

Type: iron-constantan, type J
cromel-alumel, type K
copper-constantan, type T
nicrosil-nsil 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 K,N (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 e temperature sensors series XPS-10.000

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<td>6.0 mm</td>
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□ = probe length 'A' in mm (to be specified)