EXPLOSION PROOF IEC
Industrial temperature sensors Ex ia or Ex ib

Specifications:

Series: XPS-20.000

**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/102r
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: XPS2: Ex ia IIC T6...T1 or Ex ib IIC T6...T1
Certificate number: IECex DEK 11.0002X
Protection category: 'ia' intrinsic safety, category a
Explosion group: IIC
Temperature class: T6-T1
Applicable standards: EN-60079-0:2011
EN-60079-11:2011
Also available in ATEX, CSA/US, TR CU and KTL

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

<table>
<thead>
<tr>
<th>Probe type</th>
<th>CAST-ALUMINIUM HEAD</th>
<th>CAST-IRON HEAD</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Single</td>
<td>Duplex</td>
</tr>
<tr>
<td>J</td>
<td>4,8 mm</td>
<td>XPS-25101-</td>
</tr>
<tr>
<td>K</td>
<td>4,8 mm</td>
<td>XPS-25101-</td>
</tr>
<tr>
<td>T</td>
<td>4,8 mm</td>
<td>XPS-25101-</td>
</tr>
<tr>
<td>Pt 100</td>
<td>6,0 mm</td>
<td>XPS-25101-</td>
</tr>
</tbody>
</table>

□ = immersion length ‘A’ in mm (to be specified)
MI-CABLE TC / Pt100 INSERTS
for Thermo Electric Ex I approved sensors IEC

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. springloading | 50 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 K, N (Wstnr.2.4816)

Hot junction:
- Insulated, individually insulated for duplex

Probe diameter:
- 4.8 mm or 6.0 mm 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 ia temperature sensors series XPS-20.000

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<td>TEE-50482- J 4.8 mm</td>
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<td>K</td>
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<td>TEE-50482- K 4.8 mm</td>
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</tr>
<tr>
<td>N</td>
<td>4.8 mm</td>
<td>TEE-50482- N 4.8 mm</td>
</tr>
<tr>
<td>Pt 100</td>
<td>6.0 mm</td>
<td>RTD-50603- Pt100- 6.0 mm</td>
</tr>
</tbody>
</table>

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