EXPLOSION PROOF IEC
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
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 XPS3 : Exd IIC T6…T1
Certificate number IECex DEK 11.0002X
Protection category 'd' flame proof enclosure
Explosion group IIC
Temperature Class T6…T1
Applicable standards IEC60079-1:2007-04
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

Ordering code:

CAST-ALUMINIUM HEAD

<table>
<thead>
<tr>
<th>Probe type</th>
<th>Single</th>
<th>Duplex</th>
</tr>
</thead>
<tbody>
<tr>
<td>J</td>
<td>4,8 mm</td>
<td>XPS-35103- J - mm</td>
</tr>
<tr>
<td>K</td>
<td>4,8 mm</td>
<td>XPS-35103- K - mm</td>
</tr>
<tr>
<td>T</td>
<td>4,8 mm</td>
<td>XPS-35103- T - mm</td>
</tr>
<tr>
<td>N</td>
<td>4,8 mm</td>
<td>XPS-35103- N - mm</td>
</tr>
<tr>
<td>Pt 100</td>
<td>6,0 mm</td>
<td>XPS-35103- Pt100- 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 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. 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
- SS 316 for type J and T (Wstnr.1.4401);
- Inconel 600 for type K,N (Wstnr.2.4816)

Sheath material
- SS 316 for type J and T
- Inconel 600 for type K,N

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:

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<tr>
<th>Probe type</th>
<th>Single</th>
<th>Duplex</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>'A'</td>
<td></td>
</tr>
<tr>
<td>J</td>
<td>TEE-60482- J - □ mm</td>
<td>TEE-62484- J - □ mm</td>
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<tr>
<td>K</td>
<td>TEE-60482- K - □ mm</td>
<td>TEE-62484- K - □ mm</td>
</tr>
<tr>
<td>T</td>
<td>TEE-60482- T - □ mm</td>
<td>TEE-62484- T - □ mm</td>
</tr>
<tr>
<td>N</td>
<td>TEE-60482- N - □ mm</td>
<td>TEE-62484- N - □ mm</td>
</tr>
<tr>
<td>Pt 100</td>
<td>RTD-60603- Pt100 - □ mm</td>
<td>RTD-62606- Pt100 - □ mm</td>
</tr>
</tbody>
</table>

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