

Mineral insulated resistance or thermocouple inner element T-M-Ø / W-M-Ø similar to DIN 43762

Features

- temperature range -200...+1200 °C
- Pt100 or thermocouple
- standard materials AISI 316L or INCONEL 600, others on request
- Pt100, accuracy class A, as a standard, more accurate on request. TC, class 1 as a standard
- MI-construction, bendable
- tailored solutions according to specific needs

Typical Applications

- Energy and power plant technology
- Process industry
- Chemical industry
- Machinery, plant and vessel construction



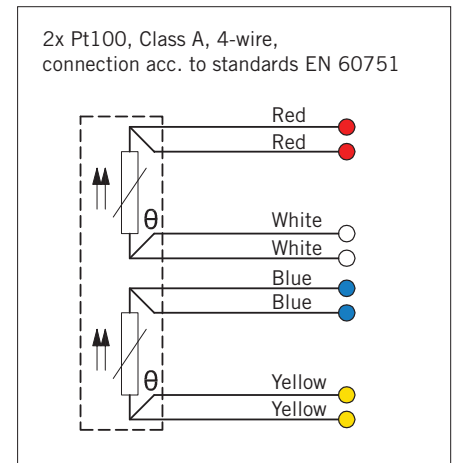
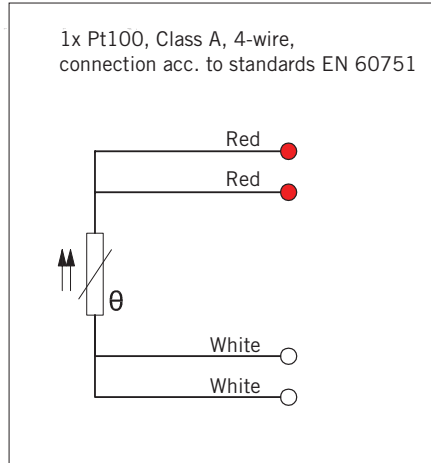
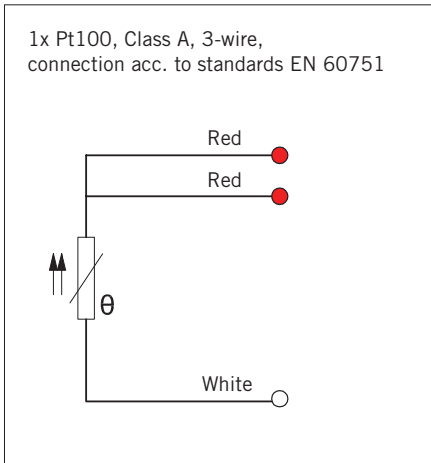
Technical data

Mi-wire material	AISI, max. temp. +550 °C, temporarily +600 °C. INCONEL 600, max. +1100 °C, temporarily +1200 °C.
Tolerances Pt100 (EN-60751)	A, tolerance +/- 0,15 + 0,002 x t, operating temperature -100...+450 °C B, tolerance +/- 0,3 + 0,005 x t, operating temperature -196...+600 °C B 1/3 DIN, tolerance +/- 1/3 x (0,3 + 0,005 x t), operating temperature -196...+600 °C B 1/10 DIN, tolerance +/- 1/10 x (0,3 + 0,005 x t), operating temperature -196...+600 °C
Tolerances TC (EN-60584-2)	Type J tolerance class 1 = -40...375 °C +/- 1,5 °C, 375...750 °C +/- 0,004 x t Type K and N tolerance class 1 = -40...375 °C +/- 1,5 °C, 375...1000 °C +/- 0,004 x t
Temperature range Pt100	-200...+550 °C, depending on application and material
Temperature range TC TC = thermocouple	-200...+1200 °C depending on thermocouple type
Approvals	ATEX, GOST-R, METROLOGICAL PATTERN APPROVAL, ROSTECHNADZOR
Quality certificate	ISO 9001:2008 issued by DNV
IP-class	IP65, higher IP-class on request

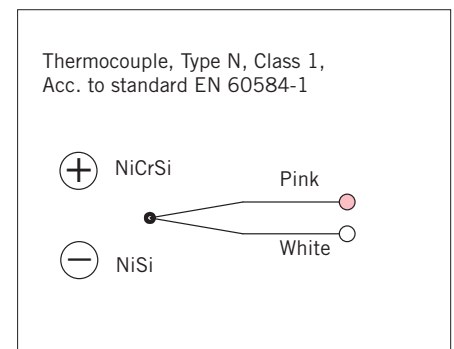
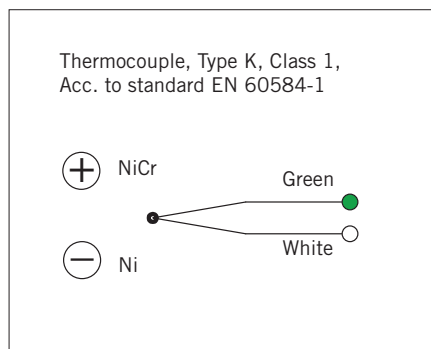
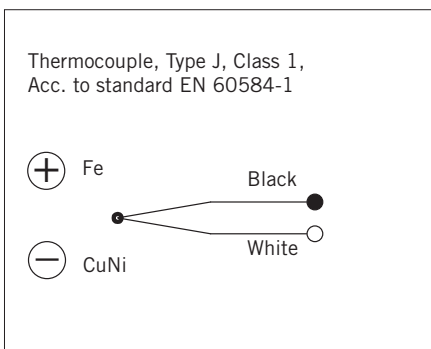


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Pt 100 Connections

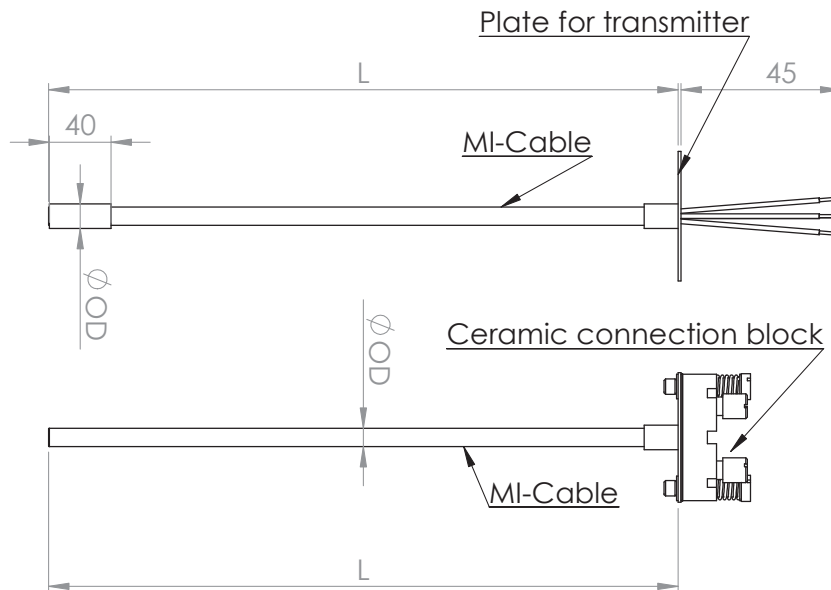


Thermoelement connections



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Drawing



Product code key



Example code: W - M - 6 - SV / 315 - 4 - A - TR - X

Sensing Element

W	= Pt100 resistance sensor
2xW	= 2 x Pt100 resistance sensor
T	= Thermocouple
2xT	= 2 x Thermocouple
M	= mineral insulated
6	= sensor diameter
[Blank]	= even thickness (Standard)
SV	= stiffed sleeve on measuring end
SVH	= improved vibration proof construction
315	= immersion depth (mm)
4,3,2	= Pt100 number of connection wires
K,N,J	= TC type
A,B	= Pt100 precision class A (STANDARD)
1,2,3	= TC accuracy class 1 (STANDARD)
TR	= free wires for transmitter
CB	= with ceramic terminal block
X	= additional details on the text line

