EPIC® SENSORS T-BAJO / W-BAJO

Bayonet temperature sensor

Features

- temperature range *) -200...+300 °C
- quick installation due to bayonet connection
- spring-loaded
- suitable for bearings
- vibration proof
- IP56 or higher (GGD glass silk cable version excluded)
- AISI 316L as standard delivery material, other materials on request
- Pt100 or thermocouple as sensing element
- Pt100 accuracy class A as standard delivery
- thermocouple accuracy class 1 as standard delivery
- ATEX and IECEx compatible Ex e and Ex i versions available
- tailored solutions according to customer specific needs
- 3D step models available on request.



Typical applications

- energy and power plant technology
- process industry
- chemical industry
- machinery and vessel construction
- manufacturing industry.

Technical data

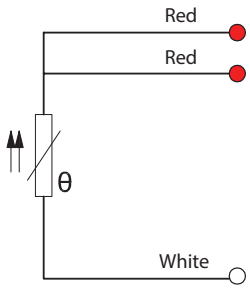
***) Materials**	AISI 316L, max. temperature +250 °C, temporarily +300 °C, other materials on request
Sensor diameter	6 or 8mm, other diameters on request
Bayonet cap diameter	12.2 mm, other diameters on request
Cable material	SIL = silicone, max. +180 °C FEP = fluoropolymer, max. +205 °C GGD = glass silk cable/metal braid jacket, max. +350 °C FDF = FEP wire insulation/braid shield/FEP jacket, max. +205 °C SDS = silicone wire insulation/braid shield/silicone jacket, only available as 2 wire cable, max. +180 °C TDT = fluoropolymer wire insulation/braid shield/fluoropolymer jacket, max. +205 °C FDS = FEP wire insulation/braid shield/silicone jacket, max. +180 °C FS = FEP wire insulation/silicone jacket, max. +180 °C
IP rating	IP56, higher IP rating on request IP20 for GGD glass silk cable version
Tolerances Pt100 (IEC 60751)	AA tolerance ±0.1 + 0.0017 x t, operating temperature -50...+250 °C 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, 0.1 °C +0.5%, B1/10 DIN 0.03 °C +0.5%, operating temperature -196...+250 °C
Tolerances thermocouple (IEC 60584)	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**	Model W-BAJO: -200...+260 °C, depending on materials, Model W-M-BAJO: -200...+300 °C, depending on materials and MI element length.
***) Temperature range thermocouple**	Model T-BAJO: -200...+260 °C, depending on thermocouple type and materials, Model T-M-BAJO: -200...+300 °C, depending on thermocouple type, materials and MI element length.
Approvals	ATEX, IECEx
Quality certificate	ISO 9001:2015, ISO 14001:2015 and ISO 45001:2018 issued by DNV

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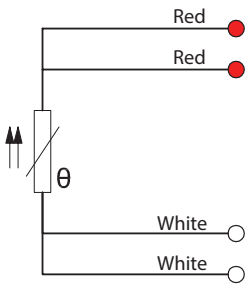
Bayonet temperature sensor

Pt100 connections

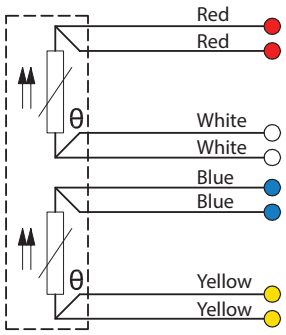
1x Pt100, Class A, 3-wire,
connection acc. to standards EN 60751



1x Pt100, Class A, 4-wire,
connection acc. to standards EN 60751

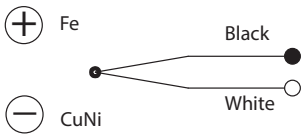


2x Pt100, Class A, 4-wire,
connection acc. to standards EN 60751

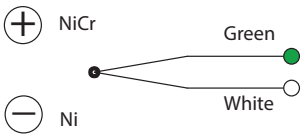


Thermoelement connections

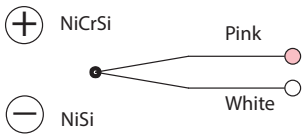
Thermocouple, Type J, Class 1,
Acc. to standard EN 60584-1



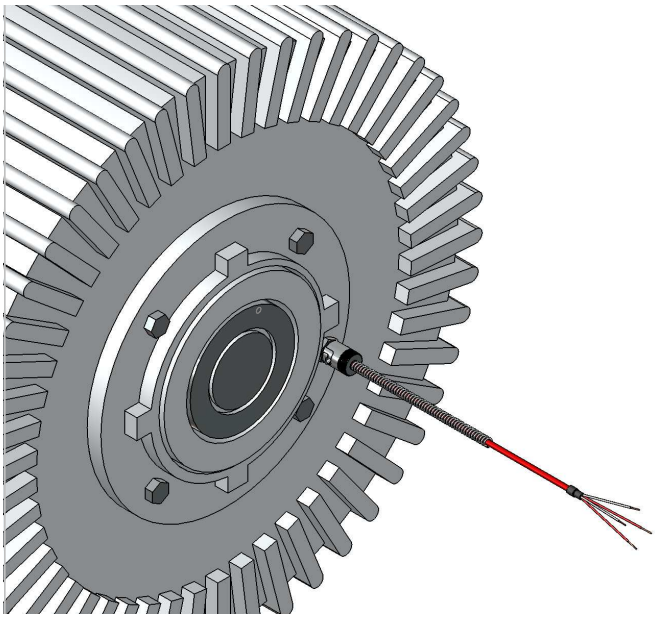
Thermocouple, Type K, Class 1,
Acc. to standard EN 60584-1

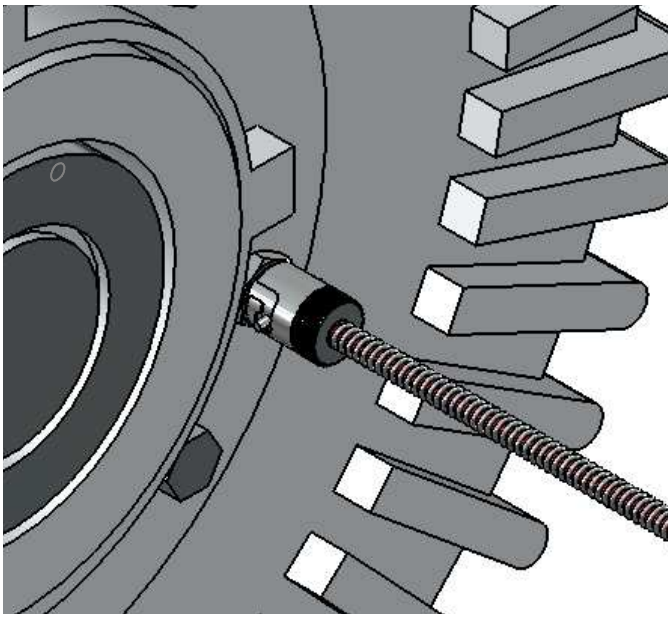


Thermocouple, Type N, Class 1,
Acc. to standard EN 60584-1



Installation examples



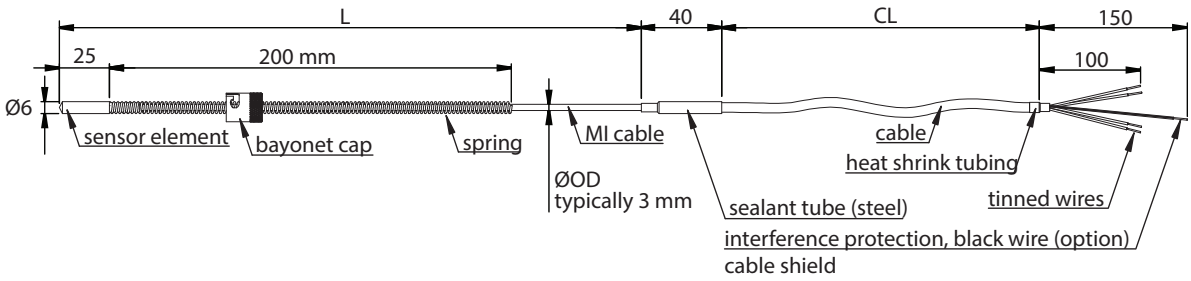


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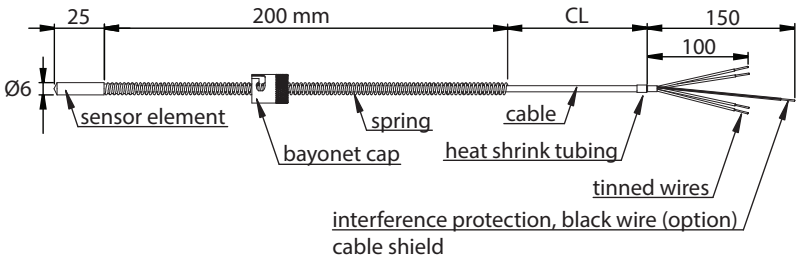
Bayonet temperature sensor

Drawing

Model W-M-BAJO



Model W-BAJO



Product code key

Example code: W — M — BAJO — 6 / 25 — 3 / 500 — 200 / SPRING — 5000 / SIL — 4 — A — S — X

W	= Pt100 resistance thermometer
2xW	= 2 x Pt100 resistance thermometer
T	= thermocouple
2xT	= 2 x thermocouple
M	= MI cable in structure
empty	= no MI cable in structure
BAJO	= bayonet sensor (constant in code)
6, 8	= outer diameter of sensor element (ØOD) [mm]
25	= lenght of sensor element [mm]
3	= outer diameter of MI cable [mm]
500	= MI cable length, L [mm]
200	= spring length [mm]
SPRING	= spring in structure (constant in code)
5000	= cable length, CL [mm]
SIL, FEP, GGD, FDF, TDT, SDS, FDS, FS	= cable material (for more information, look technical data on first page of the datasheet)
4,3,2	= Pt100 wire count
K,N,J	= thermocouple type
A,B	= Pt100 accuracy class, (class A as standard delivery)
1,2,3	= thermocouple accuracy class, (class 1 as standard delivery)
S	= interference protection (cable shield)
EX	= Ex e certified sensor
EXI	= Ex i certified sensor
X	= additional details on the text line

W-BAJO–6/25-200/SPRING-2000/FDF-4-A-X
Pt100 resistance thermometer for 4 wire measurement with accuracy class A, bayonet sensor without MI cable, sensor element with diameter 6 mm and tip length 25 mm, spring length 200 mm, delivered with 2 meters long FEP insulated and shielded cable, for cable maximum temperature +205°C. X stands for additional details and customizations in product according to customer specific needs.