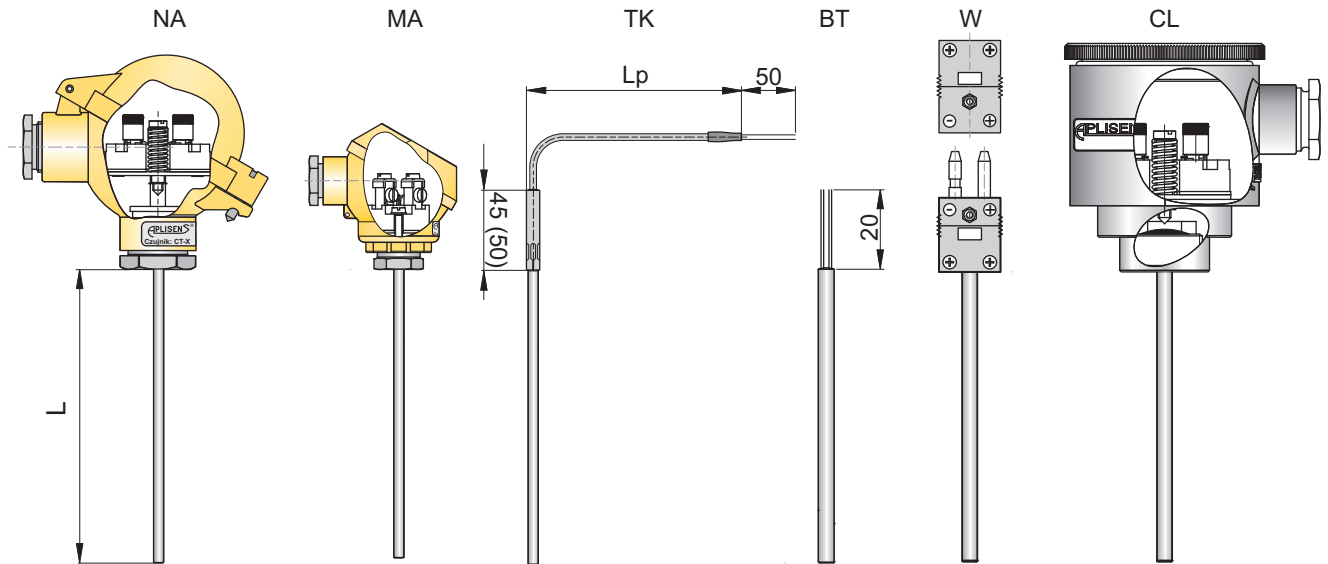


TEMPERATURE SENSORS WITHOUT ADDITIONAL PROTECTION TUBE TYPE CT X

- ✓ RTD (Pt100, Pt1000) and TC sensors
- ✓ ATEX Exia certificate



Features

Temperature sensors CT X are offered as Pt100/Pt1000 resistance thermometers or thermocouples.

In resistance sensors (RTD) platinum resistors change their electrical resistance as a function of temperature. RTD, the most commonly used sensors in industry, are suitable for applications between $-200...+600^{\circ}\text{C}$. The accuracy classes A and B are available with a tolerance acc. to IEC60751.

Thermocouples are made of two different conductors joined at the end. The temperature difference between junction, placed in measuring point (hot junction), and wire ends (cold junction), generate voltage proportional to the difference of temperature between these junctions.

The accuracy classes 1 and 2 are available with tolerance acc. to IEC60584.

Description



Temperature sensors model CT X are offered without additional protection tube.

Small diameters and flexibility of process part allow for assembling in not easily accessible places.

Sensors are suitable only for non-aggressive or abrasive liquids and gases. Usually are mounted directly into the process. Sensors can be mounted also into thermowells, in this case is recommended assembling with spring-loaded fitting or using transmission liquid.

Sensors are offered with various screwed connections of for insertion, with fitting elements like union nuts. Typical application are:

- machine building
- temperature measurement in motors, bearings

Ordering procedure			
CTX			
Diameter of sensor			
3		3mm	
6		6mm	
8		8mm	
Certificate			
x		standard version, no certificates	
Exia /II		 II 1/2 G Ex ia IIC T6...T1 Ga/Gb II 1D Ex ia IIIC T75°C Da	
Exia /I		 I M1 Ex ia I Ma	available with KO housing only
Measuring element			
Pt		Pt100	
2xPt		2xPt100	
J		TC type J	
2xJ		2x TC type J	
K		TC type K	
2xK		2xTC type K	
Class of element			
A/3		TR sensor, Class A, 3 wires	
A/4		TR sensor, Class A, 4 wires	
B/2		TR sensor, Class B, 2 wires	
1/O		TC sensor, Class 1, ungrounded junction	
2/O		TC sensor, Class 2, ungrounded junction	
Length			
L=		required length of immersion [mm]	
Process connection			
X		Without threaded connection	
UG/G1/2"		clamping grips with thread G1/2"	
UG/1/2"NPT		clamping grips with thread 1/2"NPT	
UG/G1/4"		clamping grips with thread 1/4"NPT	
Electrical connection			
BT			
TK			
W			
MA			
KO			
NA			