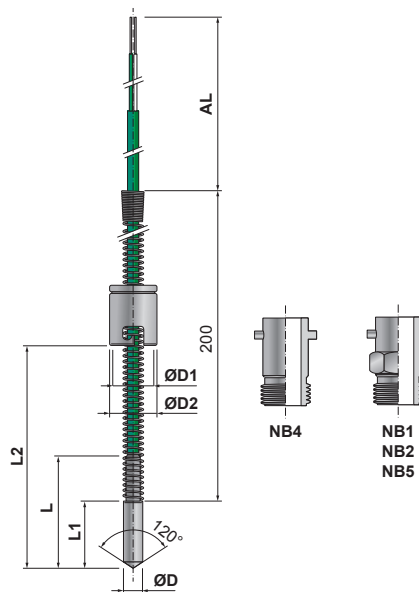


T1565

Cable Thermocouple Temperature Sensors for Plastic Industry

- Thermocouple 1x “J”, “K”.
- Measuring range -50 to +800 °C.
- Accuracy class 1, 2 acc. to EN 60584-1.
- Insulated measuring junction.
- Stem diameter 6 and 8 mm, peak angle 120°.
- Stem material stainless steel 1.4401.
- Full stainless steel design.
- Adjustable suspended bayonet cap 15 to 190 mm with inner diameter 12.2 to 15.2 mm / 2 slots.
- Optional length, insulation and wiring termination.
- Optional connecting pipe union.
- Housing up to IP 67.



Application

Cable thermocouple temperature sensors T1565 with cable connecting line (firmly connected) are designed for temperature measurement at devices for plastic industry and similar applications.

Description

A single thermocouple sensor type “J” or “K” is placed in the stem of measuring insert. The stem continues by stainless steel spring with extended termination. Position of the bayonet cap is adjustable through the entire length of the spring. Sensors are mounted into the bore by bayonet cap and by optional connecting pipe union, which can be also supplied.

Technical specifications

Thermocouple:

“J”, “K”, accuracy class 2 according to IEC 584-2

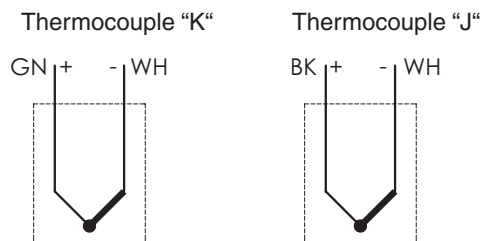
Measuring range:

-50 to +350 °C - thermocouple “J”
 -40 to +800 °C - thermocouple “K”
 (depends on wire insulation)

Temperature resistance and housing:

Code	Insulation	Measuring range	Ambient temperature of cable	Wire cross section / diameter	Housing
Thermocouple “J”					
11	Silicone insulated	-50 to +200 °C	-50 to +200 °C	2x0.22 mm ²	IP 67
12	Teflon insulated	-50 to +260 °C	-50 to +260 °C	2x0.22 mm ²	IP 67
14	Fibreglass insulation / galvanized steel wire braiding	-20 to +350 °C	-20 to +350 °C	2x0.22 mm ²	IP 60
Thermocouple “K”					
15	Fibreglass insulation / tinned copper wire braiding	-20 to +350 °C	-20 to +350 °C	2x0.25 mm ²	IP 60
16	Fibreglass insulated	-40 to +600 °C	-40 to +600 °C	2xd. 1 mm	IP 60
17	Mineral fibre insulated	-40 to +800 °C	-40 to +1200 °C	2xd. 0.8 mm	IP 60

Electrical connection



GN - green, BK - black, WH - white

Dielectric strength:

500 V_{eff}

Used materials:

stem - stainless steel 1.4401
 spring - stainless steel
 bayonet cup - stainless steel 1.4305

Cable Thermocouple Temperature Sensors for Plastic Industry T1565

Type	Description			
T1565	Cable thermocouple temperature sensor for plastic industry			
Code	Thermocouple	Measuring range		
21	1x"J" (Fe-CuNi), insulated	-50 to +350 °C		
22	1x"K" (NiCr-NiAl), Insulated	-40 to +800 °C		
...U	Grounded version of junction TC			
99	Other			
Code	Accuracy class according to EN 60584-1			
6	1			
7	2			
Code	Stem			
	Outer diameter of stem D [mm]	Outer diameter of spring [mm]	Stem material	
S71	6	6	1.4401	
S81	8	8	1.4401	
Code	Nominal length of stem L [mm]	Length L1 [mm]		
L38	38	7	- only for stem with diameter 8 mm	
L40	40	25	- only for stem with diameter 6 mm	
L45	45	27	- only for stem with diameter 8 mm	
L...	Other (please fill length in mm)			
Code	Bayonet cap			
	Inner diameter of cap D1 [mm]	Outer diameter of cap D2 [mm]	Length L2 [mm]	
B00	Without bayonet cup and spring			
B12	12.2	14	15 to 190	
B15	15.2	16.5	15 to 190	
B99	Other			
Code	Cable - nominal length AL [mm]			
KV200	200			
KV1000	1000			
KV2500	2500			
KV5000	5000			
KV....	Other (please fill length in mm, step 100 mm)			
Code	Cable insulation	Measuring range	Ambient temperature of cable	Wire cross section / diameter
I1	Silicone insulated	-50 to +200 °C	-50 to +200 °C	2x0.22 m ²
I2	Teflon insulated	-50 to +260 °C	-50 to +260 °C	2x0.22 m ²
I4	Fibreglass insulation / galvanized steel wire braiding	-20 to +350 °C	-20 to +350 °C	2x0.22 m ²
I5	Fibreglass insulation / tinned copper wire braiding	-20 to +350 °C	-20 to +350 °C	2x0.25 m ² - only for 1x"K"
I6	Fibreglass insulated	-40 to +600 °C	-40 to +600 °C	2x Ø1 mm - only for 1x"K"
I7	Mineral fibre insulated	-40 to +800 °C	-40 to +1200 °C	2x Ø0.8 mm - only for 1x"K"
I8	Ceramic fibre insulated / stainless steel wire braiding	-40 to +800 °C	-40 to +800 °C	2x0.50 m ² - only for 1x"K"
I9	Other			
Code	Cable termination			
00	Flying leads (standard)			
01	Insulated pressing tube according to DIN 46228			
02	Flat connector for single sensor (plug), standard version, up to 180 °C			
04	Flat connector for single sensor (plug), mini version, up to 180 °C			
22	Flat connector for single sensor (plug), standard version, ceramic up to 650 °C			
24	Flat connector for single sensor (plug), mini version, ceramic up to 650 °C			
09	Other			
Code	OPTIONAL ACCESSORIES			
	Calibration in customer defined points, including certificate of calibration			
KTE32AA	Thermocouple temperature sensor calibration in three points in range -40 to +660 °C			
KTE42AA	Thermocouple temperature sensor calibration in four points in range -40 to +660 °C			
KTE52AA	Thermocouple temperature sensor calibration in five points in range -40 to +660 °C			
KTE32AB	Thermocouple temperature sensor calibration in three points in range -40 to +800 °C			
KTE42AB	Thermocouple temperature sensor calibration in four points in range -40 to +800 °C			
KTE52AB	Thermocouple temperature sensor calibration in five points in range -40 to +800 °C			
KTE9	Other			
Code	Extension piece for bayonet cap			
NB1	Outer diameter 12 mm, length 23 mm, connecting thread M10x1, material stainless steel SS316			
NB2	Outer diameter 12 mm, length 60 mm, connecting thread M12x1, material stainless steel SS316			
NB4	Outer diameter 15 mm, length 60 mm, connecting thread M14x1.5 material stainless steel SS304			
NB5	Outer diameter 12 mm, length 25 mm, connecting thread G1/4", material stainless steel SS304			
Code	Connectors, fuses of connectors and cables			
Z2	Counterpart of connector (plug), standard version, for single sensor, up to 180 °C ¹⁾			
Z4	Counterpart of connector (plug), mini version, for single sensor, up to 180 °C			
Z32	Counterpart of connector (plug), standard version, for single sensor, ceramic up to 650 °C			
Z34	Counterpart of connector (plug), mini version, for single sensor, ceramic up to 650 °C			
PZ2	Counterpart of connector (rectangular panel plug), standard version, for single sensor, up to 180 °C			
PZ4	Counterpart of connector (rectangular panel plug), mini version, for single sensor, up to 180 °C			
PS	Lock of connection connectors standard, for single sensor			
PM	Lock of connection connectors mini, for single sensor			
PK1	Lock anti pull-up cable, for standard connector, for single sensor			
PK2	Lock anti pull-up cable, for standard connector, for double sensor			
PK3	Lock anti pull-up cable, for mini connector, for single sensor			
Example of order: T1565 22 7 S71 L40 B12 KV2500 I2 02 KTE32AA (-20, 100, 200 °C) NB1 Z2				

¹⁾ ... Female connector is possible to connect to standard or mini male connector.