

**Pixsys**<sup>®</sup>  
ELECTRONICS

**CODE:**

**PTS-1B-6X□□-A05**

**DESCRIPTION:**

Temperature Sensor PT100 Class B, AISI 304 sheath,  
Ø 6 mm, GSC Silicone cable

**□□ = SHEATH LENGTH (L):**

050 = 50 mm  
100 = 100 mm  
150 = 150 mm  
200 = 200 mm

**SHEATH EXT. Ø:**

6 mm

**SHEATH INT. Ø:**

5 mm

**RTD RESPONSE:**

6,5 sec

**OPERATING TEMPERATURE:**

-100°C / +250°C

**IMMERSED MATERIAL:**

Steel AISI 304

**FITTING MATERIAL:**

N.A.

**SENSOR INSULATION:**

MgO Magnesium Oxide >20Mohm @ 25°C (500VDC)

**TIP TAPERING:**

NO

**CERTIFICATION:**

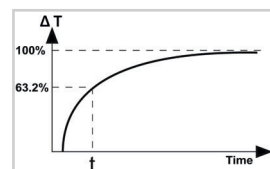
NO

**COMPLIANCE**



STANDARD DIN EN 60751

Temperature C°	Tolerance PT100 B Class (+/- C°)
-200	1.3
-100	0.8
0	0.3
100	0.8
200	1.3
300	1.8
400	2.3
500	2.8



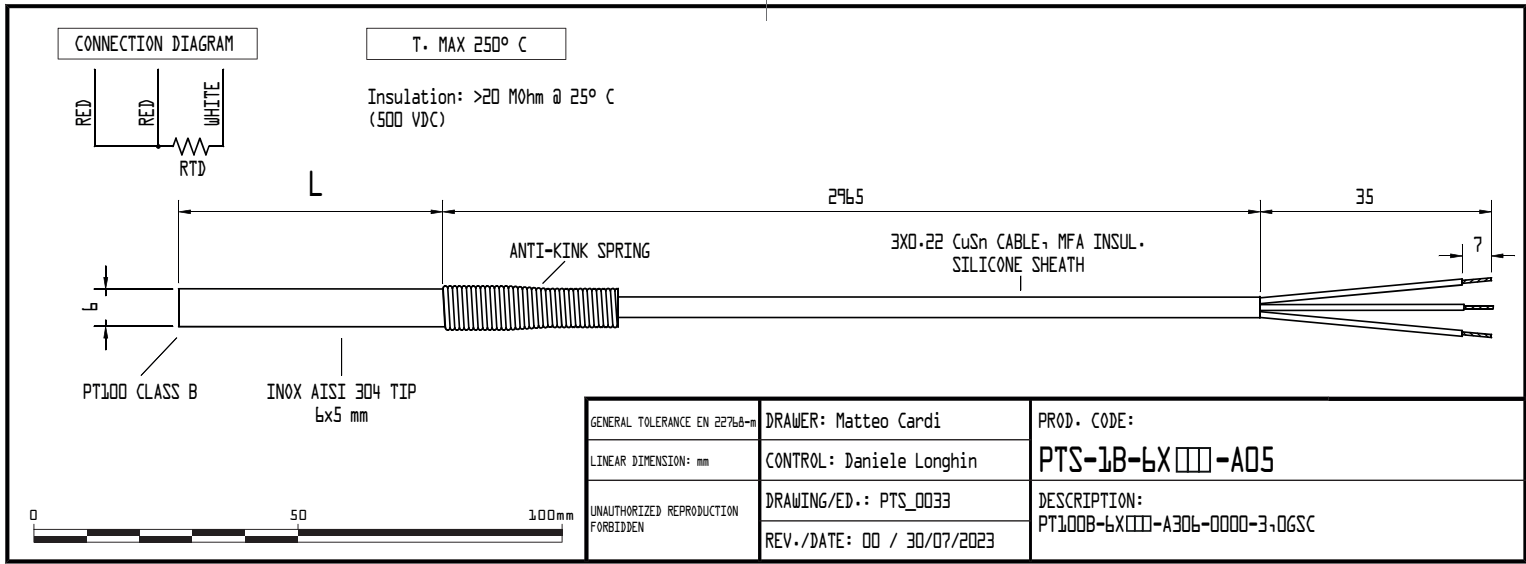
RTD response time with steel tube AISI-316/304 MgO insulated, conforming to B.S. 1904/1984/CEI60751. 50mm immersion in water at a speed of 1m/sec. Calculated on 63.2 % of the thermal jump, depending on stem diameter and thickness.

**Pixsys srl**

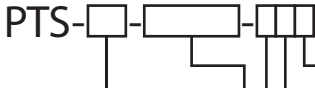
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**Ordering Code:**



Sensortype	
1B	PT100 CLASS B
KB	PT1000 CLASS B
5A	PT500 CLASS A
PK	PTC 1000 OHM
P2	PTC 120 OHM
N1	NTC 10K (β3435K)
N2	NTC 10K (β3694K)
N3	NTC 2252 (β3976K)
TH	NI100
I2	NI120
TK	THERMOCOUPLE K
TJ	THERMOCOUPLE J
TS	THERMOCOUPLE S

Process connection	
Examples:	
0	NN
1	1/8" MALE GAS FIXED UNDERHEAD
2	1/4" MALE GAS FIXED UNDERHEAD
3	1/2" MALE GAS FIXED UNDERHEAD
4	1" MALE GAS FIXED UNDERHEAD
...	
6	1/8" MALE NPT GAS FIXED UNDERHEAD
7	1/4" MALE NPT GAS FIXED UNDERHEAD
8	1/2" MALE NPT GAS FIXED UNDERHEAD
9	1" MALE NPT GAS FIXED UNDERHEAD
...	
A	1/8" MALE GAS SLIDING
B	1/4" MALE GAS SLIDING
C	1/2" MALE GAS SLIDING
D	1" MALE GAS SLIDING

Head/Cable/Connector	
Examples:	
A	HEAD DIN A
B	HEAD DIN B
C	HEAD MINI DIN
T	HEAD DIN A ATEX
X	HEAD DIN B ATEX
Y	HEAD MINI DIN ATEX
M	CONNECTOR M12 4 PIN
P	CONNECTOR HOSE
...	
1	GSC SILICONE CABLE 2m
2	PVCC CABLE 2m
3	TTS CABLE 2m
4	SPECIAL CABLE 2m
5	GSC SILICONE CABLE 3m
6	PVCC CABLE 3m
7	TTS CABLE 3m
8	SPECIAL CABLE 3m
9	FREE
Z	CUSTOM

Sheath diameter and length (S x L)	
Examples:	
6X100	Ext. Ø 6 mm x 100 mm
6X200	Ext. Ø 6 mm x 200 mm
6X300	Ext. Ø 6 mm x 300 mm
6X400	Ext. Ø 6 mm x 400 mm
8X250	Ext. Ø 8 mm x 250 mm
4X050	Ext. Ø 4 mm x 50 mm
AX150	Ext. Ø 10 mm x 150 mm
6X1M0	Ext. Ø 6 mm x 1 m
8X1M5	Ext. Ø 8 mm x 1,5 m
...	

Sheath material	
A	STEEL AISI304 SHEATH
B	STEEL AISI316 SHEATH
C	STEEL AISI308 SHEATH
M	STEEL AISI304 SHEATH, MgO INSULATION
N	INCONELL600 SHEATH
K	SINGLE CERAMIC SHEATH
Y	DOUBLE CERAMIC SHEATH

**Cable material properties:**

Cable material	Temperature C°		Abrasion resistance	Resistance to moisture	Flame behaviour
	Operating range	Istantaneous			
PVC	-30 / +105	+105	Good	Good	Self Extinguishing
<b>GSC Silicon Rubber</b>	<b>-40 / +250</b>	<b>+250</b>	<b>Sufficient</b>	<b>Fair</b>	<b>Self Extinguishing</b>
TFE Teflon	-200 / +260	+310	Excellent	Excellent	Self Extinguishing
KAP Kapton	-200 / +400	+440	Fair	Good	Self Extinguishing
TTS Fiberglass	-200 / +500	+500	Mediocre	Mediocre	Non Combustible
TTC Ceramic fiber	+1000	+1100	Mediocre	Mediocre	Non Combustible