

Pixsys[®]
ELECTRONICS

CODE:
DESCRIPTION:

PTS-1B-6X□□□-BCB

Temperature Sensor PT100 Class B, AISI316 sheath
Ø 6 mm, 1/2" male GAS sliding, DIN B

□□□ = SHEATH LENGTH (L):

100 = 100 mm 500 = 500 mm

200 = 200 mm

300 = 300 mm

400 = 400 mm

6 mm

5 mm

6,5 sec

SHEATH EXT. Ø (S):

SHEATH INT. Ø:

RTD RESPONSE:

COMPLIANCE



OPERATING TEMPERATURE:

-100°C + 500°C

HEAD MATERIAL:

Aluminium

IMMERSED MATERIAL:

Steel AISI 316L (food grade)

FITTING MATERIAL:

N.A.

SENSOR INSULATION:

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

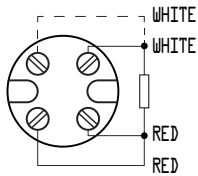
TIP TAPERING:

NO

CERTIFICATION:

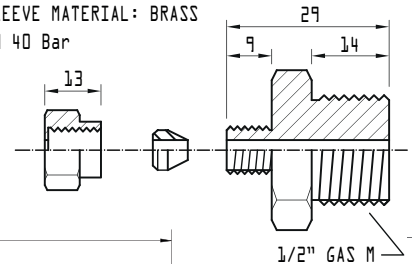
NO

CONNECTION DIAGRAM



ALUMINIUM DIN B HEAD
WITH CERAMIC BASE
3 CLAMPS

MATERIAL: SS AISI 304
SLEEVE MATERIAL: BRASS
PN 40 Bar



L

PT100 CL-B



T. MAX 500°C

Insulation:
>20 Mohm @ 25° C (500 VDC)

GENERAL TOLERANCE EN 22768-m

LINEAR DIMENSION: mm

UNAUTHORIZED REPRODUCTION
FORBIDDEN

DRAWER: Matteo Cardi

CONTROL: Daniele Longhin

DRAWING/ED.: PTS_0040

REV./DATE: 00 / 30/07/2023

PROD. CODE:

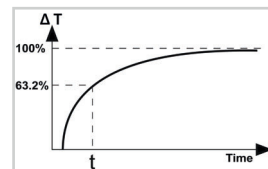
PTS-1B-6X□□□-BCB

DESCRIPTION:

PT100B-6X□□□-AISI316-1/2"/S-DIN/B

STANDARD DIN EN 60751

Temperature C°	Tolerance PT1000 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.

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Manual's code:

2300.10.384

Document version:

rel.01

Last update:

30/07/2023

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Ordering Code:

PTS-

Sensor type	
1B	PT100 CLASS B
KA	PT1000 CLASS A
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

Sheath diameter and length (S x L)	
Examples:	
6X050	Ext. Ø 6 mm x 50 mm
6X100	Ext. Ø 6 mm x 100 mm
6X200	Ext. Ø 6 mm x 200 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
...	

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

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

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
R	CONN. M12 4 PIN + TRANSM. 4..20 mA / -50..+150 C°
V	CONN. M12 4 PIN + TRANSM. 0..10 V / 0..+150 C°
W	CONN. M12 4 PIN + TRANSM. 0..10 V / -100..+100 C°
...	
1	GSC SILICONE CABLE 2m
2	PVC CABLE 2m
3	TTS CABLE 2m
4	SPECIAL CABLE 2m
5	GSC SILICONE CABLE 3m
6	PVC CABLE 3m
7	TTS CABLE 3m
8	SPECIAL CABLE 3m
9	FREE
Z	CUSTOM