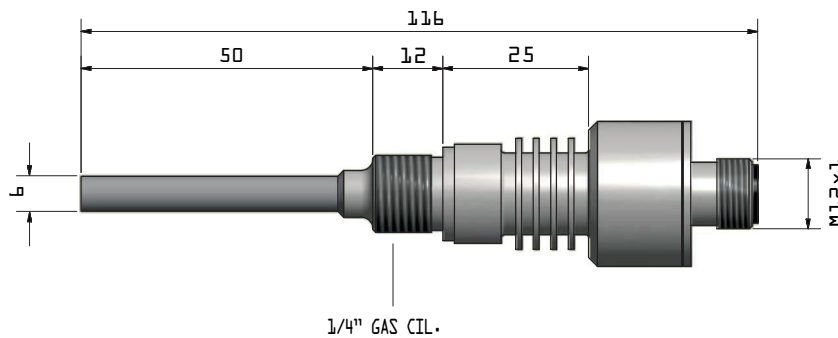


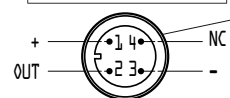
CODE: PTS-KB-6X050-B2W
DESCRIPTION: Temperature Sensor PT1000 Class B, AISI316 sheath, Ø 6 mm, M12, Transmitter 0..10 V

POWER SUPPLY: 24V DC ± 10%
OPERATING TEMPERATURE: -100°C / +100°C (range)
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

TOTAL LENGTH (E): 50 mm
SHEATH EXT. Ø (S): 6 mm
SHEATH INT. Ø: 5 mm
RTD RESPONSE: 7,5 sec
COMPLIANCE



CONNECTION DIAGRAM



PROBE CONNECTOR
SIDE VIEW

PIN1 = +
 PIN2 = OUT
 PIN3 = -

J1	J2	°C	OUT (V)
RED	WHITE	-100	0
		0	5
		+100	10



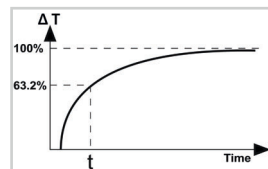
T. MAX 100° C

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

GENERAL TOLERANCE EN 22768-m	DRAWER: Matteo Cardi	PROD. CODE:
LINEAR DIMENSION: mm	CONTROL: Daniele Longhin	PTS-KB-6X050-B2W
UNAUTHORIZED REPRODUCTION FORBIDDEN	DRAWING/ED.: PTS_0023	DESCRIPTION: PT1000B, AISI316, Ø 6 mm, M12, Tr. 0..10V, -100/100°C
	REV./DATE: 00 / 30/01/2024	

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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 Document version: rel.01
 Last update: 10/12/2024
 Author: Matteo Cardi

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

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
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

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
...	

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

Suggested cables:



CODE:

CAB-M12FD5A3R

PVC 5 poles M12 female straight cable



CODE:

CAB-M12FA5A3R

PVC 5 poles M12 female angled cable

OPERATING TEMPERATURE: -25°C / +80°C

HOUSING / MOLDED BODY: TPU

INSERT: TPU

CONTACT: CuSn pre-nickel and 0.3 microns gold-plated

KNURLED SCREW: CuZn, nickel-plated

O-RING: FKM

PROTECTION DEGREE: IP67 in locked position

CONTACT RESISTANCE: ≤ 5 mΩ

NOMINAL CURRENT AT 40°C: 4 A

NOMINAL/RATED VOLTAGE: 240 V / 250 V

TEST VOLTAGE: 2.0 kV eff. /60 s

INSULATION RESISTANCE: > 10⁹ Ω

POLLUTION DEGREE: 3