Glass Wire Wound sensor
Type GO

RoHS

- **Temperature sensor**
- **Large temperature range**
  From -200°C to +400°C
- **High vibrations resistant**
- **Resistant to external forces and pressures**
- **Small dimensions**
- **Good temperature stability**
- **Abrasion resistance**
- **Good pull up force resistance of leads**
- **Resistance to aggressive environment (acid, oil, solvent)**

DESCRIPTION

One or two platinum bands wounded on solid glass core and homogeneously sealed with external tube.

FEATURES

- Nominal Value: 100 Ω at 0°C
  Tolerance according to IEC 60751: class W 0.3, W 0.15 and W 0.1
  Temperature coefficient α = 3850 ppm/K
  Closer tolerances in restricted temperature ranges
- Connection Wires: Platinum coated nickel wires
- The lead wires connection is pull up force resistant
- Housing Advise: Can be used in most of liquids without protection (water, oil, solvent, acid...).
- Options: - Lead wires length
  - Extension cable
  - Glass shape (diameter, length, bent)
  - Ohmic values

APPLICATIONS

- Chemical and pharmaceutical industry
- Food industry
- H.V.A.C.
- Power generation plants
- Analytical equipment
- Aerospace industry
- Marine...

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PERFORMANCE SPECIFICATIONS

Type	Desi-gnation	Referen ce	Nominal reference (Ohm at 0°C)	L	WL	D	AL1	AL2	A	Self-heating in air (K/mW)	Response time (s) Water v = 0,4 m/s t0,5	Water v = 0,4 m/s t0,9	Air v = 1 m/s t0,5	Air v = 1 m/s t0,9
				(Dimensions in mm)										
Tolerance Class W 0.3 = ± (0.3+0.005 ltl) From -196°C to + 400°C														
1Pt100	GO 1020	SB0789	100	10	6	2,0	15	-	0,25	0,26	0,14	0,35	7	21
1Pt100	GO 1327	SB0865	100	13	9	2,7	15	-	0,25	0,11	0,40	1,30	13	25
1Pt100	GO 1545	SB0862	100	15	9,5	4,5	15	-	0,25	0,09	0,80	2,40	16	40
1Pt100	GO 2327	SB0870	100	23	16	2,7	15	-	0,25	0,11	0,40	1,30	13	25
1Pt100	GO 3045	SB0873	100	30	21	4,5	15	-	0,25	0,09	0,80	2,40	16	40
2Pt100	GO 4845	SB0765	100	48	35	4,5	10	12	0,25	0,09	0,80	2,40	16	40
Tolerance Class W 0.15 = ± (0.15+0.002 ltl) From -100°C to + 250°C														
1Pt100	GO 1020	SB0794	100	10	6	2,0	15	-	0,25	0,26	0,14	0,35	7	21
1Pt100	GO 1327	SB0866	100	13	9	2,7	15	-	0,25	0,11	0,40	1,30	13	25
1Pt100	GO 1545	SB0863	100	15	9,5	4,5	15	-	0,25	0,09	0,80	2,40	16	40
1Pt100	GO 2327	SB0871	100	23	16	2,7	15	-	0,25	0,11	0,40	1,30	13	25
1Pt100	GO 3045	SB0874	100	30	21	4,5	15	-	0,25	0,09	0,80	2,40	16	40
Tolerance Class W 0.1 = ± (0.1+0.0017 ltl) From 0°C to + 150°C														
1Pt100	GO 1020	SB0795	100	10	6	2,0	15	-	0.25	0,26	0,14	0,35	7	21
1Pt100	GO 1327	SB0867	100	13	9	2,7	15	-	0,25	0,11	0,40	1,30	13	25
1Pt100	GO 1545	SB0864	100	15	9,5	4,5	15	-	0.25	0,09	0,80	2,40	16	40
1Pt100	GO 2327	SB0872	100	23	16	2,7	15	-	0,25	0,11	0,40	1,30	13	25
1Pt100	GO 3045	SB0875	100	30	21	4,5	15	-	0.25	0,09	0,80	2,40	16	40

VALUES FOR PT100

°C	Ohms	Ohms/°C	°C	Ohms	Ohms/°C
-200	18.52	0.432	150	157.33	0.374
-150	39.72	0.417	200	175.86	0.368
-100	60.26	0.405	250	194.10	0.362
-50	80.31	0.397	300	212.05	0.356
0	100	0.391	350	229.72	0.350
50	119.40	0.385	400	247.09	0.345
100	138.51	0.379			

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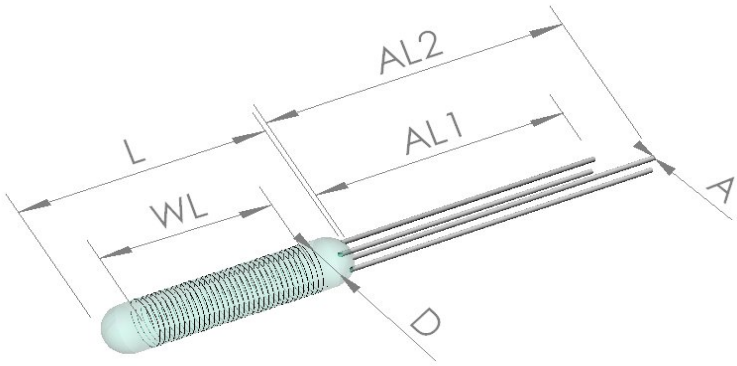
BLOCK DIAGRAM

DIMENSIONAL TOLERANCES:

L	(length of body)	= ± 2mm
D	(diameter of body)	= ± 0.2mm
AL	(connection wire length)	= ± 2mm
A	(connection wire diameter)	= ± 0.02 mm



ORDERING INFORMATION

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