SENSING DEVICES LTD

SDL PRODUCT DATA SHEET

UKAS CALIBRATION 0171

UKAS MANAGEMENT SYSTEMS 8175 CML QMS195524

PRODUCT DESCRIPTION: Ceramic, wire-wound platinum resistance detector, partially supported coil

CONFORMS: IEC60751;2008

GENERAL TOLERANCE CLASSES

CLASS	TEMPERATURE RANGE OF VALIDITY °C	TOLERANCE VALUE Ro
W 0.1	-100 to+350	+/-(0.1+0.0017[t])
W0.15	-100 to +450	+/-(0.15+0.002[t])
W0.3	-196 to +660	+/-(0.3+0.005[t])
W0.6	-196 to +660	+/-(0.6+0.01[t])

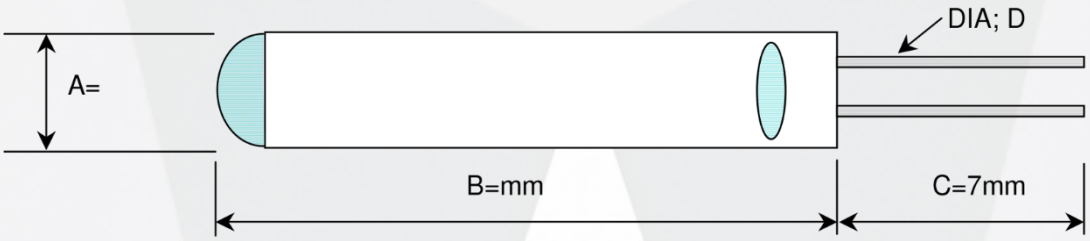
Tolerances and ranges of validity which differ from the values in the above table shall be agreed between SDL and the user

SDL BAND	TEMPERATURE RANGE OF VALIDITY deg C	TOLERANCE VALUE To
1	-196 to +660	100 ohms +/- 0.1%
2	-196 to +660	100 ohms +/- 0.05%
3	-196 to +660	100 ohms +/- 0.03%
4	-196 to +660	100 ohms +/- 0.02%
5	-196 to +660	100 ohms +/- 0.1%

For reference only: as per BS EN 60751;1996 (DIN STANDARD)

CLASS	TEMPERATURE RANGE OF VALIDITY deg C	TOLERANCE VALUE To
B	-196 to +660	100 ohms +/- 0.12%
A	-196 to +660	100 ohms +/- 0.06%
1/3 DIN	-196 to +660	100 ohms +/- 0.04%
1/6 DIN	-196 to +660	100 ohms +/- 0.02%
1/10 DIN	-196 to +660	100 ohms +/- 0.12%

SELF HEATING: AIR mK/Mw
RESPONSE TIME: (t0.5)
AIR: @ 1m/s seconds
WATER: @1m/s seconds



LEAD WIRE: DIA D = 0.mm C=7mm
SENSING LENGTH: mm

For all detector dimensions, please refer to Detector Selection Chart. For technical information/self-heating response time and technical, please a member of our technical team on +44 (0) 1704 546161.