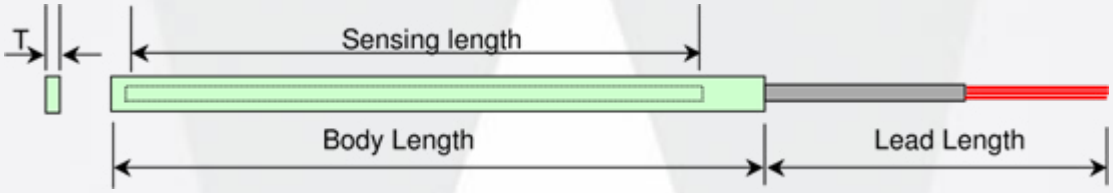
SENSING DEVICES LTD

SD01721 Dual Ex Certified (Exia & Exeb) Stator RTD DATA SHEET



The SD01721 Dual Certified Stator RTD is intended for use in Potentially Explosive Atmospheres and can either be a simplex or duplex PT100 class A or B (100Ω at 0°C), NI100 (100Ω at 0°C), NI120 (120Ω at 0°C), CU10Ω at 25°C or CU10Ω at 0°C which is embedded onto a strip of insulated board. Connection is made via flying leads, in a two, three or four-wire connection arrangement.

Length	50mm(min) to 1500mm(max)
Width	8mm(min) to N/A(max), Duplex 16mm (min)
Thickness	2.0mm(min) to N/A(max)
Cable Length	Maximum 25 Metres.
Sensing Length	2mm(min) to 508mm(max)
Maximum working temperature	155°C (class F) 180°C (class H)

The SD01721 Ex Dual Certified Stator RTD shall be subjected to an electric strength test using a test voltage of 2kVac applied between the circuit and the encapsulated element for 60s. There shall be no evidence of flashover or break-down and the maximum current shall not exceed 5mA.

The equipment has the following safety description:

	Ex ia Apparatus Electrical Parameter	**Ex eb Apparatus Electrical Parameter**
Ui/U	15.0V	<60V
Li/L	l00mA	<2mAw
Pi/P	l50mW	<10mW
Ci	0	0
Li	0	0

The equipment shall be marked with the following:

Ex II 1 G D
Ex eb IIC Gb

Ex II 1 G D
Ex ia IIC T4 Ga
Ex ia IIIC T200135°C Da
Ta= -50°C to +85°C

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CML QMS195524

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