



**4B Elevator Components Limited.
Bearing Temperature Sensor WDB40V3A.**

The WDB40V3A is one of a range of bearing sensors manufactured to screw directly into a bearing housing. Each sensor is fitted with a grease nipple to allow lubrication of the bearing without the need for removal of the sensor. The sensor is supplied with a three-metre yellow cable attached ready for connection either directly to a monitoring device or to a junction box. The cable has two cores clear/white and yellow. The connections are not polarity sensitive therefore special connection requirements are eliminated. It is advisable however to connect all sensors in an identical manner, this will reduce the risk of shorting. Please refer to the relevant device manual for detailed connection information. A drain wire is provided for connections to a shield terminal where fitted. The cable is colour coded YELLOW to indicate that the temperature sensor is a PT100 type.

Each sensor typically has the following electrical specification.

Resistance at 0°C	-	100 Ohms Max. 2 wire PT100
Sensing Voltage	-	5v DC Typical. (See protection below)
Maximum Current.	-	1ma (See protection below)
Fixing Thread.	-	1/8" NPT.
Cable	-	2 Core + Drain wire. 3Mtr. Long.

Maximum Temperature Conditions.

Designed to work in ignitable dust temperature class T125°C (sensor body)
Free air ambient temperature of -40°C to +40°C
Maximum continuous cable temperature is 80°C

Protection.

 II 1 D T125°C BAS01 ATEX 1191X

When connected to an ATEX approved monitoring device such as Watchdog Elite, T400 Elite or TN4 node type device then the power dissipation of the sensor is limited and controlled by the monitoring system. If you wish to use the temperature sensor connected to independent equipment such as PLC or remote temperature monitor other than those listed, then special conditions apply.

Special Conditions for Safe Use

The user must ensure that the maximum rated voltage and current (5 Volts, 1 milliamp DC) are not exceeded. All connections to other apparatus or associated apparatus shall have control over this voltage and current equivalent to a category 'ib' intrinsically safe circuit according to EN 50020.



For further information
www.go4b.com

**Manufactured by DON ELECTRONICS LIMITED.
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