

# Bearing Temperature Sensors

BETTER BY DESIGN

## WDB3 Series Bearing Temperature Sensors

### APPLICATION

For use on any application where bearing temperature monitoring is desired or required.

### METHOD OF OPERATION

The WDB3 series has a NTC thermistor for continuous bearing temperature monitoring. The sensor is designed to be adjustable and a quick fit bayonet adapter is supplied with every sensor. It can be installed in a drilled and tapped 1/8" BSP threaded entry. A flexible cable allows for easy installation. The sensor is supplied with a 13 ft. attached cable and can be connected to a PLC or to a hazard monitoring system, such as 4B's T500 Hotbus Elite, Watchdog Elite, or T400 Elite. The connections are not polarity sensitive therefore special connection requirements are eliminated.

### FEATURES

- ▶ Screw in Installation
- ▶ Fully Adjustable
- ▶ Quick Fit Bayonet Adapter
- ▶ Continuous Temperature Monitoring
- ▶ Flexible and Adjustable to 8"

### PART NUMBERS

- ▶ WDB30V3A – Bayonet Style Bearing Sensor

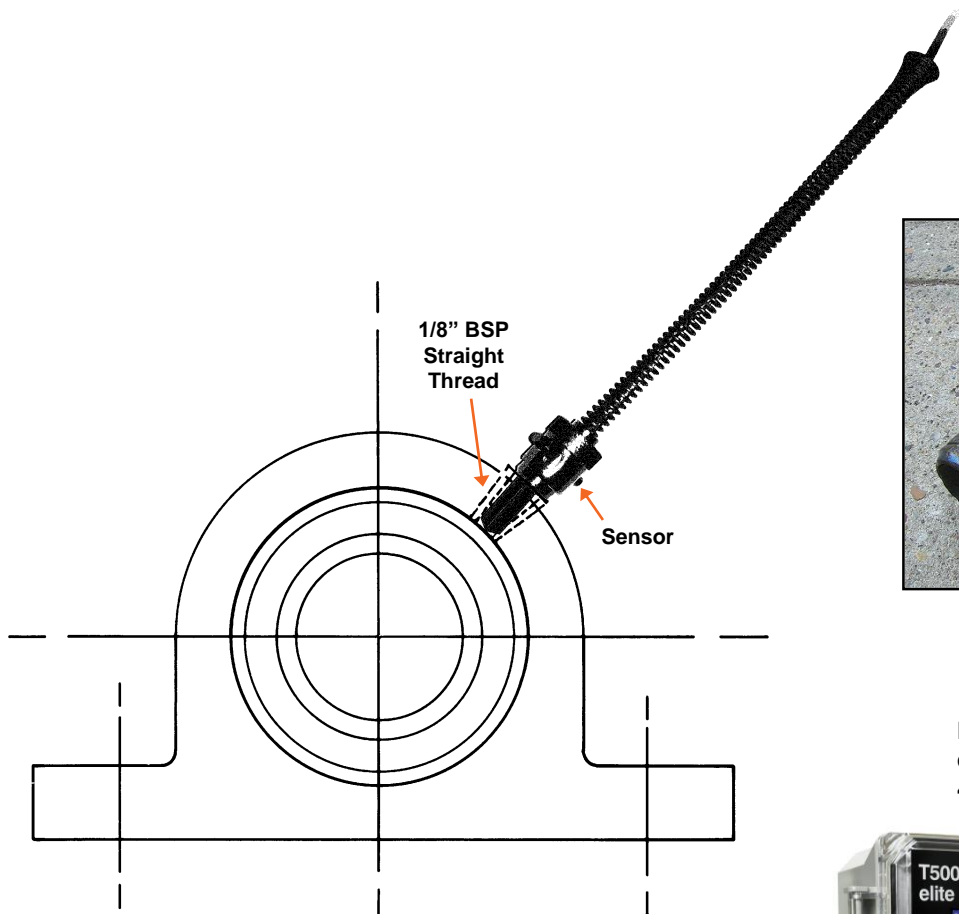


WDB30V3A



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Installation of Bearing Temperature Sensor



Example of Bearing Failure

Bearing Temperature Sensors  
can be used with the following  
4B Hazard Monitoring Systems

## TECHNICAL SPECIFICATIONS

### WDB3 Series NTC Bearing Temperature Sensors

WDB Series 3	
Resistance at 32°F:	32.6K Ohms +/- 5%
Resistance at 77°F:	10K Ohms +/- 5%
Resistance at 212°F:	678 Ohms +/- 5%
Sensing Voltage:	5 to 24 VDC
Current Draw:	1 mA
Fixing Thread:	1/8" BSP
Cable:	2 Core (13ft. Long)
Protection:	ATEX and CE



T500 Hotbus Elite



Watchdog Elite



T400 Elite