

WDB7 Series Lug Style Surface Temperature Sensor

APPLICATION

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

METHOD OF OPERATION

The WDB7 series is a lug style NTC thermistor or platinum RTD (PT100) type for continuous temperature monitoring. It is designed to bolt directly onto a bearing housing, motor, gearbox, or machine casing. The mounting hole is 5/16" from the factory, but can be drilled up to 1/2" if needed. The sensor 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 connections requirements are eliminated. The WDB7 series is approved for use in Class II, Div 1 Groups E, F, and G dust hazard locations.

FEATURES

- ▶ Surface Mount Installation
- ▶ 5/16" to 1/2" Bolt Entry
- ▶ 1/2" NPT Conduit Entry
- ▶ Continuous Temperature Monitoring
- ▶ CSA Class II Div. 1 Approved

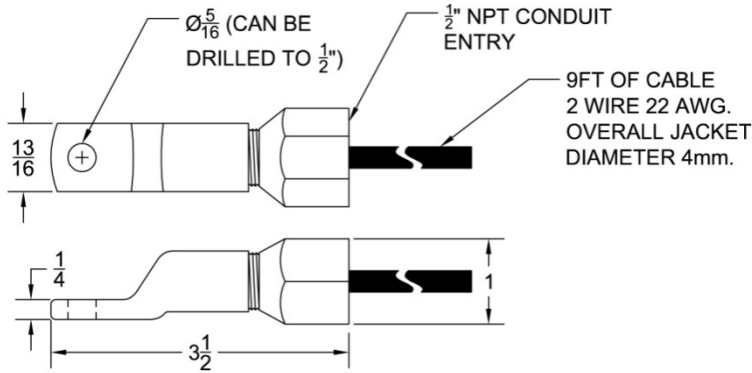
PART NUMBERS/ACCESSORIES

- ▶ WDB70V3C - NTC Type
- ▶ WDB79V3C - PT100 Type



Surface Temperature Sensor

BETTER BY DESIGN



WDB70V3C Installed on Bearing Housing

TECHNICAL SPECIFICATIONS

WDB7 Series Surface Temperature Sensor

| WDB Series 7 | |
|----------------------|---|
| Resistance at 77°F: | 10,000 Ohms |
| Resistance at 140°F: | 2,487 Ohms |
| Resistance at 194°F: | 916 Ohms |
| Sensing Voltage: | 5 to 24 VDC |
| Current Draw: | 1 ma |
| Conduit Entry: | 1/2" NPT |
| Fixed Entry Hole: | 5/16" Factory (Can Be Drilled Up To 1/2") |
| Cable: | 2 Core + Drain Wire (9ft. Long) |
| Approvals: | CSA Class II Div 1 Groups E, F, G (US and Canada) |



Example of Bearing Failure

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



T500 Hotbus Elite



Watchdog Elite



T400 Elite