

Temperature Sensors

Bearing and Surface Sensors

Hazard Monitoring, Anytime, Anywhere.

Maxi-Tronic leads the industry in providing a wide variety of reliable, low cost, temperature sensors for all your hazard monitoring needs.

Ideal for Bearings, Gear Boxes, Bucket Elevators, Mills, Grinders, Conveyors, Mechanical Drives and most other material handling equipment.

Use these sensors with Maxi-Tronic Temperature Controllers and all PLC/PC based systems. Combine with Maxi-Tronic MT400 Underspeed Detection Controllers and FM200 Flow/No-Flow detectors for complete hazard monitoring protection.



Temperature Sensors in Action

HB Series Bearing Sensors allow greasing the bearing without removing the sensor.

- Sensor element is located at the bearing race for the most rapid and accurate reading in the industry.
- Easy to install and maintenance free. Just screw the stainless HB "housing" and "insert" into an existing Zerk grease fitting.
- Integral 1/2" NPT conduit fitting.



Flat Pack Surface Sensors monitor the temperature of surfaces that cannot be monitored by other sensors.

- Easy to install, just bolt on or strap on to nearly any surface.
- Choose from many configurations, switching temperatures, and contacts (N/O or N/C).
- A drain-plug style sensor is also available.

- Extremely rugged designs
- Fast reacting sensing elements
- Configurations for nearly any application.
- Industry standard TC, RTD, PTC and Switches.

- UL Class II, Div 2 configurations available
- Easy installation and low maintenance
- Fully compatible with MaxiTrack Remote Hazard Monitoring software.

MAXI-TRONIC

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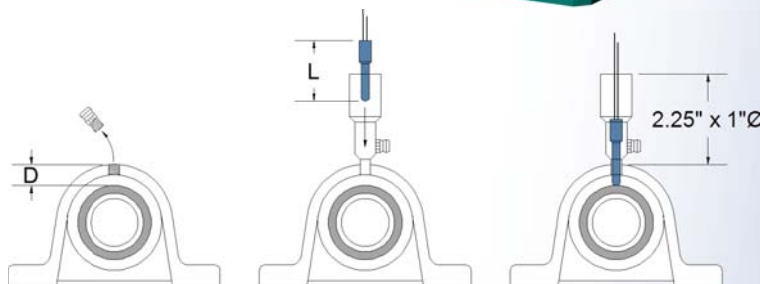
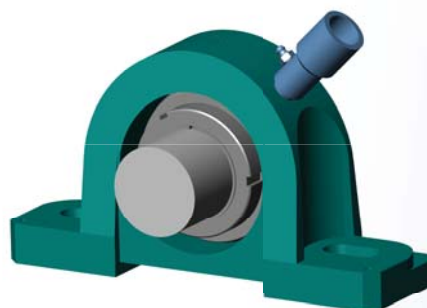
Temperature Sensors

Bearing and Surface Sensors

HB Hot Bearing Sensor

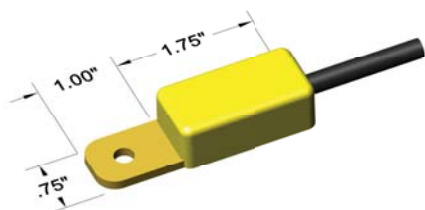
Available in PTC Thermistor, Thermocouple and RTD sensor elements. Comes with 6" cable and integral 1/2" NPT conduit fitting. Various length "inserts" are available to fit any size bearing, select the Insert length for your size of bearing:

DISTANCE "D"	INSERT LENGTH "L"
0" to .25"	1.5"
0" to .75"	2.0"
.75" to 1.25"	2.5"
1" to 1.5"	2.75"
1.25" to 1.75"	3.0"
1.75" to 2.25"	3.5"
2.25" to 2.75"	4"
2.75" to 3.25"	4.5"



Flat Pack Surface Sensors

Available in PTC Thermistor, Thermocouple, Temperature Switch and RTD sensor elements. Includes 6' heavy rubberized cable.



Sensor Element Types:

HB and Temperature Switch sensors are available in the following sensor element types to match your temperature controller:

- ♦ **Thermocouple**, Type "T" (Type "J" and others on request).
Use thermocouple extension wire (leadwire) when wiring.
- ♦ **PTC Thermistor**, 130°F switching temperature, 100Ω @77°F.
10mA@12VDC max. Wire: 500' with 22AWG, 5000' with 16AWG.
- ♦ **RTD**, platinum PT100 type; 1mA max. Specify 2 or 3 wire cable.
- ♦ **Temperature Switch**: Switching temperatures available include: 140°F, 160°F, 170°F with N/O or N/C contacts.
Rating: 125VA duty; 15A Inductive; 3FLA-12LRA@120VAC.

Maxi-Tronic Contols:

Choose from these Maxi-Tronic Contollers to provide complete hazard monitoring protection for your facility:

- MTDT24**: Scanning temperature controller with dual setpoint and digital display of 24 Thermocouple inputs. Serial data output for wireless and PC/PLC monitoring.
- HB/RB**: Temperature controller with inputs for 8 or 16 PTC Thermistor and/or Temperature Switch sensors. Each input has a door mounted real-time status indicator. One 5A relay Alarm output per controller.
- SC4**: Signal Conditioner with 4 PTC Thermistor inputs with a high-voltage relay output for each input.
- Basic4**: 4 Temperature Switch inputs with high-voltage relay outputs for each, user selectable time delay.
- MT400 Motion Controller**: The MT400 is "the" industry standard for dual-setpoint underspeed detection.



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