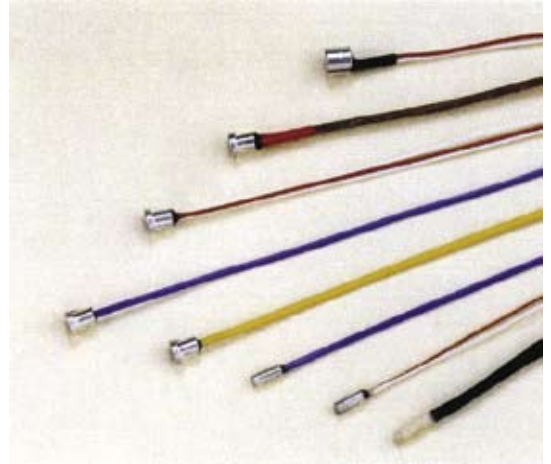


BLUE PETER Series®

Embedded Bearing RTDs and Thermocouple Sensors



FEATURES

- Available with Single or Dual Elements
- High Quality
- Vibration Resistant
- Available with Single or Dual Elements
- Easily installed

APPLICATIONS

- Electric Motors
- Generators

DESCRIPTION

Temperature sensors installed to accurately monitor bearing temperatures. They provide a proven means to assess bearing health and to minimize unplanned downtime due to a bearing failure.



Embedded sensors are installed with the entire sensor body inside the bearing housing. Leadwires exit a small housing opening for routing to a display or controller unit. Embedded temperature sensors are compact, easy to install and leave less bulky hardware on the bearing housing exterior.



BLUE PETER Series® embedded bearing sensors are offered in a variety of types and sizes. The primary purpose of these sensors is to continually monitor the temperature of bearing metal. Elevated temperatures could indicate a breakdown in the protective layer of oil, giving one time to execute a controlled or planned shutdown. The end result is a system, which aids in avoiding both high repair/replacement costs and poor operating efficiencies.

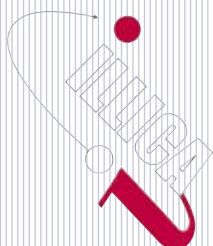


Our RTD type embedded sensors are available in four (4) different body styles, each with a wide array of element sensor options, leadwire lengths and optional leadwire jacketing materials. Thermocouples are also available in each of the four (4) case styles with your choice of either Grounded or Ungrounded junctions. They can be installed in the Babbitt layer or below the Babbitt surface.

Case styles are available which will accommodate either Single or Dual elements.



All of the **BLUE PETER Series®** embedded bearing sensors are small and they exhibit excellent resistance to vibration. They are used in most any large electric motor or generator at the bearing points.



an enterprise of

ILLICA Group, LLC

475 Silver Street
Poca, WV 25159 USA

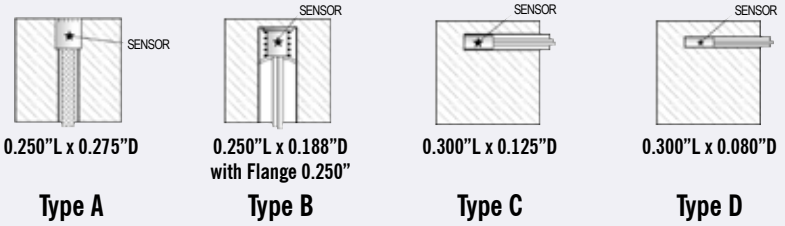
Phone 304-776-9370
Fax 304-776-9464

PRODUCT SELECTION GUIDE

Select Case Style

- A = Case Type A, Single Element
- B = Case Type B, Single Element
- C = Case Type C, Single Element
- D = Case Type D, Single Element
- E = Case Type A, Dual Element
- F = Case Type B, Dual Element
- G = Case Type C, Dual Element

NOTE: Case types C and D are not available with Cu10 element



Select Sensor Type

- A = Pt100 (392), $\pm 0.36\%$ @0°C
- B = Pt100 (385), $\pm 0.36\%$ @0°C
- C = Pt100 (385), $\pm 0.12\%$ @0°C
- D = Ni 120, $\pm 0.5\%$ @0°C
- E = Cu10, $\pm 0.2\%$ @25°C
- F = Pt1000, $\pm 0.12\%$ @0°C
- G = Type "E" Thermocouple
- H = Type "T" Thermocouple
- J = Type "J" Thermocouple
- K = Type "K" Thermocouple

Leadwires per Element/Grounding for Thermocouples (NOTE: Cu10 RTDs are 3-wire only)

	for RTDs	for Thermocouples
2 =	2-wire	Grounded
3 =	3-wire	Ungrounded
4 =	4-wire	XXX

Select Leadwire Insulation Option

- T = PTFE on individual leads
- R = PTFE with Silicone Rubber outer
- S = PTFE with Stainless Steel overbraid

Specify Lead Wire LENGTH in Inches using 3-digits (i.e. 36" = 036, 120" = 120)

Optional Babbitt tip over Case (NOTE: Only available for Case Types A and B)

- N = No Babbitt tip
- B = Babbitt tip

A **B** **3** **S** **036** **N**

Example: Embedded Sensor, Pt 100 RTD (385), $\pm 0.36\%$ @ 0°C, 3 wire, Case Type A, with 36" PTFE Insulated Leadwires with a Stainless Steel Overbraid. No Babbitt tip.

Probe Style Sensor assemblies are ALSO AVAILABLE. An RTD or Thermocouple sensing element is mounted in the closed end of a cylindrical metal tube or sheath. The open end of the sheath is inserted into the bearing housing. Probes include rapid responding Copper Tips.



BLUE PETER A flag with a blue background and white square in the center, hoisted as a signal that the ship is about to sail. Peter is a corruption of the French partir (leave or notice of departure). The flag is hoisted to give notice to the town that any person having a money-claim may make it before the ship starts, and that all about to sail are to come on board.