

BTC-BAY A bearing thermocouple with a bayonet lock is designed to monitor bearing temperatures in rotating machinery. It ensures reliable and secure contact with the bearing housing, making it ideal for preventing overheating and potential failures in industrial equipment.

Key Feature:

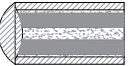
- Adjustable bayonet Lock Mechanism provides a secure, spring-loaded connection for better contact with the bearing surface and allows for quick installation and removal without special tools.
- Available in Thermocouples Type-K, J and T. Type-K is most widely used for industrial applications.
- Spring-Loaded Tip ensures constant pressure against the bearing housing, improving heat transfer leading to faster response time and accurate temperature readings.
- Available in 0.188 " diameter and lengths depending on application requirements.

Thermocouple Junction options for BTC-BAY

Ungrounded Junction: Junction is similar to grounded junction except wire are fuse welded, which is then insulated with Mgo powder and formed cap by welding without incorporating thermocouple wires. Thus, the junction is called the ungrounded junction.

Key Benefits :

- Wires are protected from any mechanical damage
- Offers rugged construction, the same as the grounded junction.
- Strain due to differential expansion between wire and sheath is minimized with insulated wires.



Grounded Junction: In grounded junction thermocouple wires and sheath of the mineral insulated cable is welded together to form a junction. Thermocouple wires and sheath becomes an integral part of the junction. Thus, the wire is grounded to the sheath.

Key Benefits:

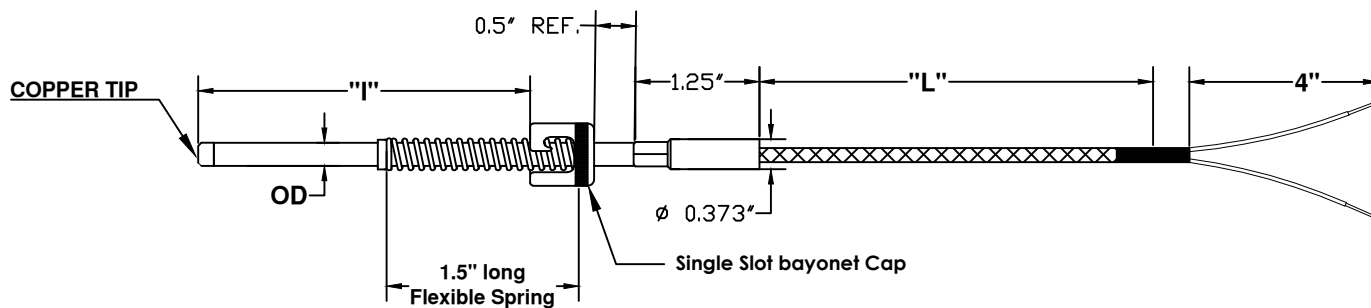
- Slower response than Exposed junction, but offers rugged construction.
- Can hold higher pressure than exposed junction and Ungrounded junction.

Maximum Temperature Rating:

For Teflon Wire : 260°C

For Fiberglass Wire: 510°C





	1	2	3	4	5	6	7	8
BTC BAY								

For Example- BTC BAY-J-UG-3-8i-24i-1-Z-0-0

1. THERMOCOUPLE TYPE	
CODE	
J	Iron(+) vs Constantan(-)
K	Chromel(+) vs Alumel(-)
T	Copper(+) vs Constantan(-)

2. MEASURING JUNCTION	
CODE	
UG	Simplex / Un- Grounded Junction

3. SHEATH OD		
CODE	IMPERIAL SIZE	METRIC SIZE
3	3/16"	4.76 mm

4. IMMERSION LENGTH (I)	
Immersion length - use "I" for inches and "M" for millimetre	

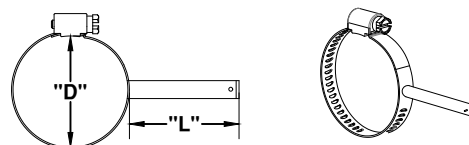
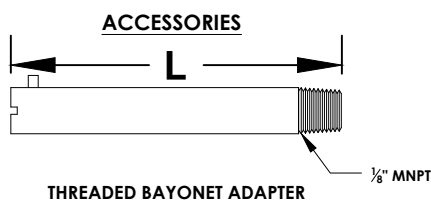
5. LEAD LENGTH (L)	
Lead length - use "I" for inches and "M" for millimetre	

6. WIRE TYPE	
CODE	
1	PFA (260° C)
NOTE:- Add "X" for SS braiding & "Z" for Armour	

6. CODES FOR TERMINATION	
CODE	
Z	Bare ends
STP	Standard Plug
MP	Miniature Plug

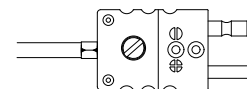
7. CODES FOR TERMINATION (JACK)	
CODE	
0	Not required
STJ	Standard Jack
MJ	Miniature Jack

8. OPTIONAL ACCESSORY	
CODE	
0	Not required
WC	Wire clamp
Only choose when ordering with connector	

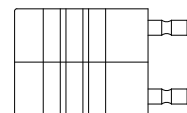


HOSE CLAMP ADAPTER
NOTE : SEE ACCESSORIES PAGE TO ORDER

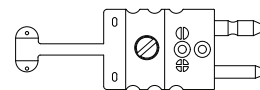
Termination Options



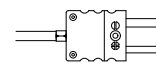
STANDARD
CONNECTOR



DUPLEX STANDARD
CONNECTOR



STANDARD CONNECTOR
WITH BRACKET



DUPLEX MINI
CONNECTOR



MINI CONNECTOR
WITH BRACKET