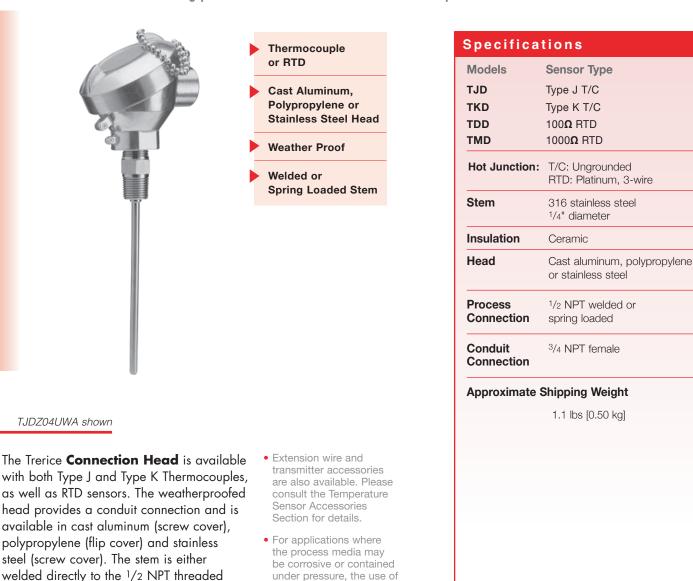
## Connection Head Type • RTD or Thermocouple Element

connection, or is spring loaded to provide

must always be installed in a thermowell.

<u>| KERICE</u>

maximum sensitivity. The spring loaded stem



HOW TO ORDER				Sample Order Number:	TJD Z 04 U W A
Model	Stem Style	Stem Length	Hot Junction	Connection	Head Material
<b>TJD</b> Type J T/C <b>TKD</b> Type K T/C <b>TDD</b> 100Ω RTD <b>TMD</b> 1000Ω RTD	<b>Z</b> 316SS, <sup>1</sup> /4 O.D.	02         21/2" Stem           04         4" Stem           06         6" Stem           09         9" Stem           12         12" Stem	<ul><li>U Ungrounded (T/C)</li><li>D 3 Wire (RTD)</li></ul>	<ul> <li>S Spring Loaded, 1/2 NPT</li> <li>W Welded, 1/2 NPT</li> </ul>	<ul><li>A Aluminum</li><li>P Polypropylene</li><li>S Stainless Steel</li></ul>

under pressure, the use of a thermowell is required to

(Refer to pages 163-169)

in a thermowell.

prevent damage to the sensor

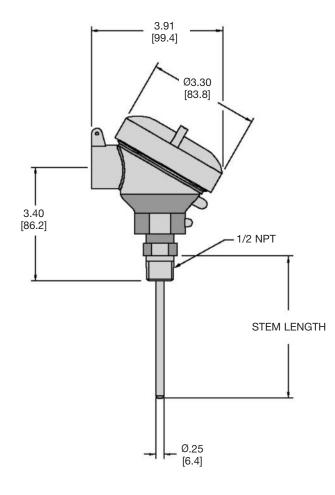
process. To prevent leakage of the process media, spring loaded sensors must always be installed

and facilitate its removal from the

Other stem lengths available: Specify in inches (24" maximum).

All dimensions are nominal. Dimensions in [ ] are in millimeters.

# **Connection Head Type**



#### **Sensor Specifications**

Thermoc	Thermocouple						
Туре	Color Code	Positive Lead	Negative Lead	Temperature Range			
J	Black	Iron* (Fe) [white]	Constantan (Cu-Ni) [red]	32° to 1382°F (0° to 750°C)			
К	Yellow	Nickel-Chromium (Ni-Cr) [yellow]	Nickel-Aluminum* (Ni-Al) [red]	32° to 2282°F (0° to 1250°C)			

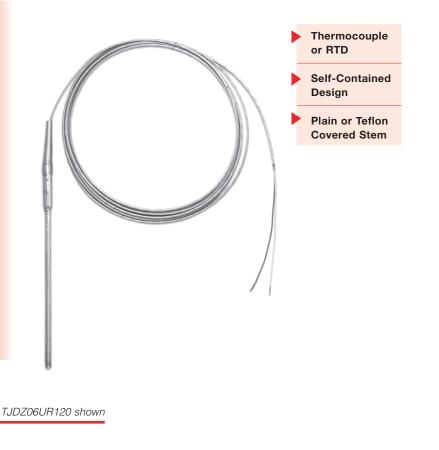
\*magnetic lead

#### RTD

Туре	Material	Resistance	Temperature Coefficient	Temperature Range
D	Platinum (Pt)	<b>100</b> Ω	α = 0.00385 Ω/Ω/°C	-50° to 700°F (-45° to 370°C)
Μ	Platinum (Pt)	<b>1000</b> Ω	α = 0.00385 Ω/Ω/°C	-50° to 700°F (-45° to 370°C)



## Integral Leadwire • RTD or Thermocouple Element



### Trerice Integral Leadwire Sensors are available with an RTD, or a Type J or K Thermocouple. The stem transition includes a spring relief to prevent damage to the leadwire. A Teflon covered sensor and leadwire is offered for use with open tanks or corrosive process media (the Teflon covered sensor does not include a spring relief).

For applications where the process media may be corrosive or contained under pressure, the use of a thermowell is required to prevent damage to the sensor and facilitate its removal from the process. (Refer to pages 163-169)

## **HOW TO ORDER**

HOW TO ORDER       Sample Order Number:       TDD Z 06 D T					TDD Z 06 D T 024
Model	Stem Style	Stem Length	Hot Junction	<b>Connection Style</b>	Leadwire Length
<b>TJD</b> Type J T/C <b>TKD</b> Type K T/C <b>TDD</b> 100Ω RTD <b>TMD</b> 1000Ω RTD	<b>Z</b> 316SS, 1/4 O.D.	02         21/2" Stem           04         4" Stem           06         6" Stem           09         9" Stem           12         12" Stem	<ul><li>U Ungrounded (T/C)</li><li>D 3 Wire (RTD)</li></ul>	<ul><li>R Integral Leadwire with Relief Spring</li><li>T Integral Leadwire with Teflon Sheath</li></ul>	Specify Length in inches (i.e., 10 feet=120)

Other stem lengths available: Specify in inches (24" maximum).



Specifications

Sensor Type

Type J T/C

Type K T/C

100Ω RTD

1000Ω RTD

Ceramic

RTD: Platinum, 3-wire

Integral leadwire with spring relief or Teflon sheath (450°F/230°C maximum)

316 stainless steel 1/4" diameter

T/C: Fiberglass

0.5 lbs [0.23 kg]

RTD: Teflon

Approximate Shipping Weight

Hot Junction: T/C: Ungrounded

**Models** 

TJD

TKD

TDD

TMD

Stem

Insulation

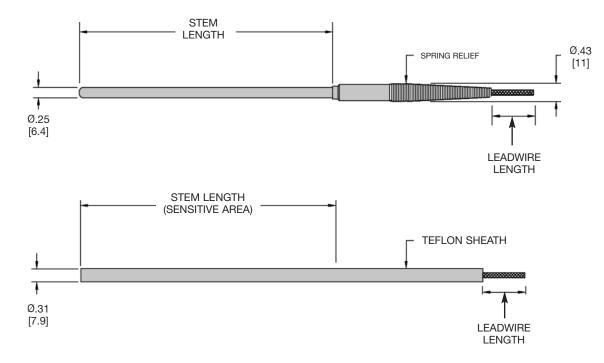
Leadwire

Jacketing

Termination

All dimensions are nominal. Dimensions in [ ] are in millimeters.





### **Sensor Specifications**

Thermocouple						
Туре	Color Code	Positive Lead	Negative Lead	Temperature Range		
J	Black	Iron* (Fe) [white]	Constantan (Cu-Ni) [red]	32° to 1382°F (0° to 750°C)		
К	Yellow	Nickel-Chromium (Ni-Cr) [yellow]	Nickel-Aluminum* (Ni-Al) [red]	32° to 2282°F (0° to 1250°C)		

\* Magnetic lead

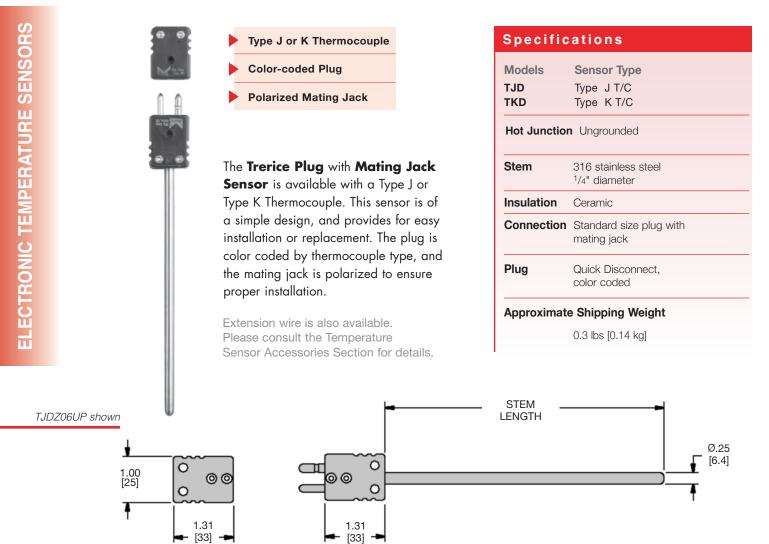
### RTD

Туре	Material	Resistance	Temperature Coefficient	Temperature Range
D	Platinum (Pt)	<b>100</b> Ω	α = 0.00385 Ω/Ω/°C	-50° to 700°F (-45° to 370°C)
Μ	Platinum (Pt)	<b>1000</b> Ω	α = 0.00385 Ω/Ω/°C	-50° to 700°F (-45° to 370°C)

Note: Teflon covered sensors are limited to 450°F (232°C).



# Plug with Mating Jack • Thermocouple Element



## **Sensor Specifications**

Thermo	Thermocouple						
Туре	Color Code	Positive Lead	Negative Lead	Temperature Range			
J	Black	Iron* (Fe) [white]	Constantan (Cu-Ni) [red]	32° to 1382°F (0° to 750°C)			
К	Yellow	Nickel-Chromium (Ni-Cr) [yellow]	Nickel-Aluminum* (Ni-Al) [red]	32° to 2282°F (0° to 1250°C)			

\*magnetic lead

### HOW TO ORDER

### NOTE: Plug is limited to 400° F (205°C)

HOW TO ORDER Sample Ord				der Number: TKD Z 06 U P
Model	Stem Style	Stem (Length)	Hot Junction	Connection Style
TJD Type J T/C TKD Type K T/C	<b>Z</b> 316SS, 1/4 O.D.	02         21/2" Stem           04         4" Stem           06         6" Stem           09         9" Stem           12         12" Stem	<b>U</b> Ungrounded	P Plug with Mating Jack

Other stem lengths: Specify in inches (24" maximum).

