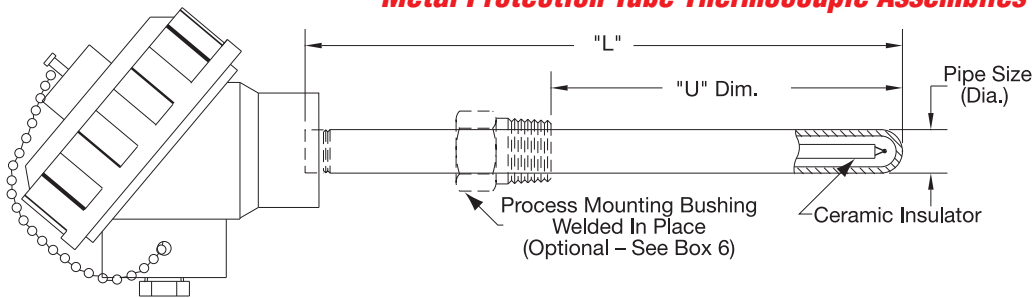
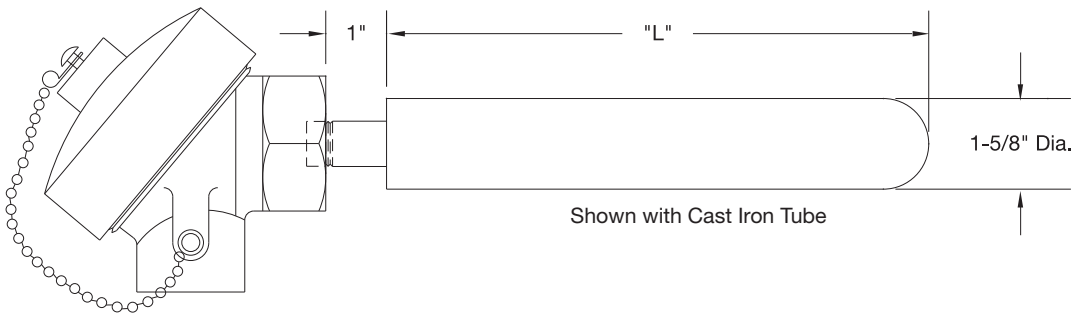


### Metal Protection Tube Thermocouple Assemblies



Shown with Standard Die Cast Aluminum Head



Shown with Cast Iron Head

### Ordering Information

Thermocouples are offered with the options listed in the worksheet below. Create an ordering code by filling in the boxes with the appropriate number and/or letter designation for your requirements, and a part number will be assigned.

### Design Features

- \* Widely used in high temperature industrial process heating applications such as furnaces, ovens; and petrochemical and textile applications up to 2200°F (1204°C)
- \* Pipe size protection tubes made with schedule 40 pipe in various steel and nickel alloys
- \* Optional process mounting bushing welded on protection tube
- \* Thermocouple heads are available in aluminum, cast iron or stainless steel. Explosion proof heads are also available in aluminum or stainless steel

Ordering Code: **TCS4** -

#### Pipe Size Sch. 40 BOX 1

**H** = 1/2" Pipe (.84" OD x .62" ID)  
**M** = 3/4" Pipe (1.05" OD x .82" ID)  
**N** = 1" Pipe (1.31" OD x 1.05" ID)  
**R** = 1-5/8" OD x 7/8" ID (Cast Iron Only)  
**X** = Other (Specify)

#### Wire Gauge BOX 4

**B** = 20 ga.  
**C** = 14 ga.  
**D** = 8 ga.  
**X** = Other (Specify)

#### "U" Dimension BOX 7

**Whole inches 01 to 99**  
 Enter 00 for cast iron tube or if no bushing required

#### Sheath Material BOX 2

**1** = Carbon Steel (Black Pipe)  
**2** = 304 SS  
**3** = 316 SS  
**4** = 446 SS  
**5** = Cast Iron (1-5/8" OD x 7/8" ID Only)  
**6** = Alloy 601  
**X** = Other (Specify)

#### "L" Dimension BOX 5

**Whole inches 12 to 96**  
 (in 6-inch increments)  
 Cast Iron is available in limited lengths.

#### Connection Head BOX 8

**A** = Standard Size Aluminum  
**H** = Standard Cast Iron  
**S** = Stainless Steel  
**Note:** All have 1/2" conduit connection (3/4" available).  
 For overall dimensions see pages 14-98 through 14-100.

#### Calibration Code BOX 3

**J** = Type J  
**K** = Type K  
**X** = Other (Specify)

#### Process Mounting Bushing BOX 6

**0** = No Bushing Required  
 Enter 0 for Cast Iron Tube  
**M** = 3/4" NPT (For 1/2" pipe only)  
**N** = 1" NPT (For 1/2 and 3/4" pipe only)  
**P** = 1-1/4" NPT  
**X** = Other (Specify)

#### Special Requirements BOX 9

**X** = Specify  
**0** = None

**WARNING:** Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).