

# T/C, 90° Metal

## Thermocouple, Metal Pipe, 90° Bend

### Introduction

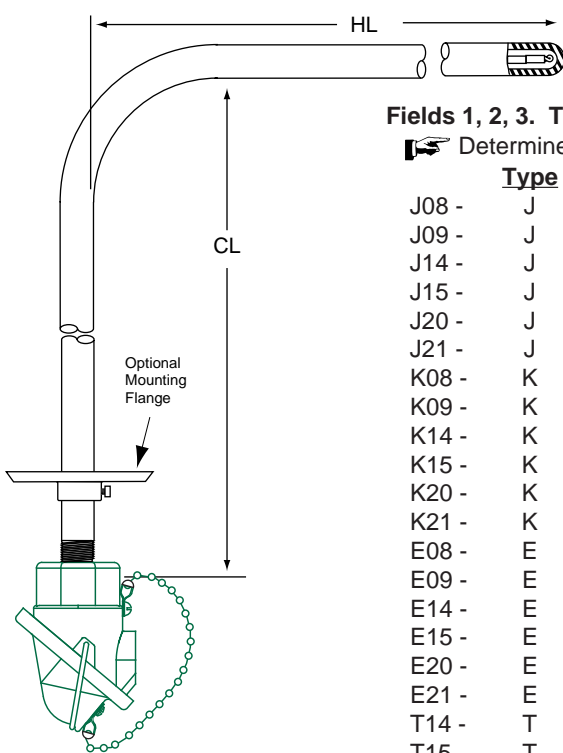
This sensor offers the same functionality and features as the 90° elbow style described on the previous page, except it is not offered with a ceramic tube, or with a nickel tube

### Ordering Information

**Model No.**     -       -     -     -     - **00**

Field No. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

**Schedule: S2**



#### Fields 1, 2, 3. THERMOCOUPLE TYPE; WIRE GAUGE

Determine length by completing Fields 8, 9 and Fields 11, 12; then add together.

| Type  | Wire | Gauge              | Limits | 12 to 30" | Ea. Add'l 6" |
|-------|------|--------------------|--------|-----------|--------------|
| J08 - | J    | Iron-Constantan    | 8      | standard  |              |
| J09 - | J    | Iron-Constantan    | 8      | special   |              |
| J14 - | J    | Iron-Constantan    | 14     | standard  |              |
| J15 - | J    | Iron-Constantan    | 14     | special   |              |
| J20 - | J    | Iron-Constantan    | 20     | standard  |              |
| J21 - | J    | Iron-Constantan    | 20     | special   |              |
| K08 - | K    | Chromel-Alumel     | 8      | standard  |              |
| K09 - | K    | Chromel-Alumel     | 8      | special   |              |
| K14 - | K    | Chromel-Alumel     | 14     | standard  |              |
| K15 - | K    | Chromel-Alumel     | 14     | special   |              |
| K20 - | K    | Chromel-Alumel     | 20     | standard  |              |
| K21 - | K    | Chromel-Alumel     | 20     | special   |              |
| E08 - | E    | Chromel-Constantan | 8      | standard  |              |
| E09 - | E    | Chromel-Constantan | 8      | special   |              |
| E14 - | E    | Chromel-Constantan | 14     | standard  |              |
| E15 - | E    | Chromel-Constantan | 14     | special   |              |
| E20 - | E    | Chromel-Constantan | 20     | standard  |              |
| E21 - | E    | Chromel-Constantan | 20     | special   |              |
| T14 - | T    | Copper-Constantan  | 14     | standard  |              |
| T15 - | T    | Copper-Constantan  | 14     | special   |              |
| T20 - | T    | Copper-Constantan  | 20     | standard  |              |
| T21 - | T    | Copper-Constantan  | 20     | special   |              |
| N08 - | N    | Nicrosil-Nisil     | 8      | standard  |              |
| N20 - | N    | Nicrosil-Nisil     | 20     | standard  |              |

#### Field 4. NUMBER OF ELEMENTS AND JUNCTION STYLE

- A - Single, twisted, grounded
- R - Single, twisted, ungrounded
- S - Single, butt welded, grounded
- T - Single, butt welded, ungrounded
- K - Dual, twisted, grounded. Return to Fields 1, 2, 3, double that price
- U - Dual common, butt welded, ungrounded. Return to Fields 1, 2, 3, double that price and add
- V - Dual isolated, butt welded, ungrounded. Return to Fields 1, 2, 3, double that price and add
- D - Reserved. Do not use when ordering new thermocouple.

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## Ordering Information (continued)

### Fields 5, 6. PROTECTION TUBE

☞ Use length determined in Fields 8, 9 and Fields 11, 12.  
See compatibility table on page 3-3.

| Size        | Material  | 12" Min. | Ea. Add'l 6" |
|-------------|---|----------|--------------|
| 02 - 1/4"   | NPT Low carbon black steel                                      |          |              |
| 03 - 1/2"   | NPT Low carbon black steel                                      |          |              |
| 04 - 3/4"   | NPT Low carbon black steel                                      |          |              |
| 05 - 1" XH* | NPT Low carbon black steel<br>Extra heavy wall schedule 80 pipe |          |              |
| 07 - 1/4"   | NPT SAE 1026 steel  |          |              |
| 08 - 1" XH  | NPT SAE 1025 steel  |          |              |
| 11 - 3/4"   | NPT 446 stainless steel   |          |              |
| 12 - 1/2"   | NPT 446 stainless steel   |          |              |
| 13 - 1"     | NPT 446 stainless steel   |          |              |
| 16 - 1/2"   | NPT Inconel 601   |          |              |
| 17 - 3/4"   | NPT Inconel 601   |          |              |
| 18 - 1/4"   | NPT 304 stainless steel   |          |              |
| 19 - 1/2"   | NPT 304 stainless steel   |          |              |
| 26 - 1/2"   | NPT Incoloy 800   |          |              |
| 27 - 3/4"   | NPT Incoloy 800   |          |              |
| 44 - 1/2"   | NPT 316 stainless steel   |          |              |
| 47 - 3/4"   | NPT 316 stainless steel   |          |              |

### Field 7. COLD END TERMINATION

See page 3-24 for protection tube/cold end termination compatibility table.

|   | Single | Dual |
|---|--------|------|
| 1 - General purpose, cast iron                    |        |      |
| 2 - Weatherproof, cast iron                       |        |      |
| 3 - General purpose, aluminum                     |        |      |
| A - Weatherproof, aluminum                        |        |      |
| B - Explosion proof                               |        |      |
| D - Aluminum, transmitter ready                   |        |      |
| E - Aluminum, explosionproof (extended lead time) |        |      |

### Fields 8, 9. HOT LENGTH (DIMENSION "HL")

☞ Complete these Fields to determine length for Fields 1, 2, 3.  
HL - Enter actual inches in 6" increments. Minimum 12", maximum 48"  
HL - Over 48" consult factory for availability.

### Field 10. HOT END

- 0 - Closed end
- 8 - Open end

### Fields 11, 12. COLD LEG (DIMENSION "CL")

☞ Complete these Fields to determine length for Fields 1, 2, 3.  
CL - Enter actual inches in multiples of 06".

### Field 13. MOUNTING FITTINGS

- 0 - None
- 2 - Adjustable flange

### Fields 14, 15. RESERVED