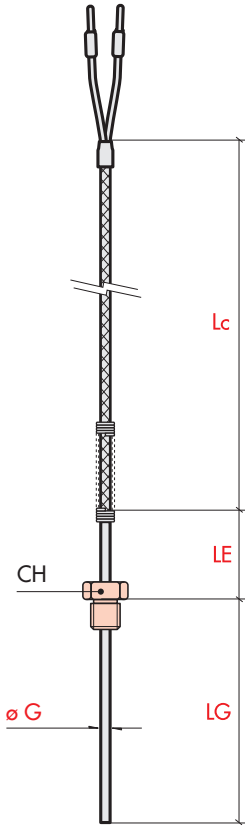




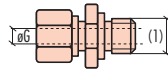
## General purpose sensors with wire

Straight thermocouple,  $\varnothing$  3 to  $\varnothing$  5 mm, optional fixed screw fitting



### Mounting Fittings (see data sheet Z1 Accessories) (for models without fixed attaching device only)

NPT adjustable compression fittings



| Material | Type of thread (1) | øG | Code          |
|----------|--------------------|----|---------------|
| AISI 316 | 1/4" G             | 3  | Z1 RFS-B/E030 |
|          | 1/8" NPT           | 3  | Z1 RFS-B/M030 |
|          | 1/8" G             | 4  | Z1 RFS-B/E040 |
|          | 1/8" NPT           | 4  | Z1 RFS-B/M040 |
|          | 1/8" G             | 5  | Z1 RFS-B/E050 |
|          | 1/8" NPT           | 5  | Z1 RFS-B/M050 |

| Type of wire         | Diam. øG mm | Base code     | Thermocouple type             | Element N° and limits            | Hot junction | Sheath material   | Sheath LG mm | Type of thread | Extension LE mm | Wire length Lc m | Type of termination |             |                               |              |             |                         |             |                               |              |               |               |             |                               |              |             |             |              |              |               |               |              |             |             |             |             |             |             |             |               |             |
|----------------------|-------------|---------------|-------------------------------|----------------------------------|--------------|-------------------|--------------|----------------|-----------------|------------------|---------------------|-------------|-------------------------------|--------------|-------------|-------------------------|-------------|-------------------------------|--------------|---------------|---------------|-------------|-------------------------------|--------------|-------------|-------------|--------------|--------------|---------------|---------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|---------------|-------------|
| EEs - stn 300°C max  | 3           | <b>A2 A30</b> | <b>J</b> Fe - CuNi IEC        | <b>0</b> Single Cl. 2 (standard) |              | <b>B</b> AISI 316 | <b>0050</b>  | <b>S</b> None  | <b>00</b> None  | <b>05</b> 0.5    |                     |             |                               |              |             |                         |             |                               |              |               |               |             |                               |              |             |             |              |              |               |               |              |             |             |             |             |             |             |             |               |             |
| TS 0 200°C max       | 3           | <b>A2 D30</b> |                               |                                  |              |                   |              |                |                 |                  |                     |             |                               |              |             |                         |             |                               |              |               |               |             |                               |              |             |             |              |              |               |               |              |             |             |             |             |             |             |             |               |             |
| TT 0 220°C max       | 3           | <b>A2 E30</b> | <b>K</b> NiCr - Ni DIN - IEC  | <b>1</b> Dual Cl. 2 (standard)   | Insulated    |                   |              |                |                 |                  |                     | <b>0100</b> | <b>F</b> 1/4" Gas - L13 CH-17 | <b>01</b> 10 | <b>10</b> 1 | Terminals ø 1.4-1.8 max |             |                               |              |               |               |             |                               |              |             |             |              |              |               |               |              |             |             |             |             |             |             |             |               |             |
| TS T 220°C max       | 3           | <b>A2 G30</b> |                               |                                  |              |                   |              |                |                 |                  |                     |             |                               |              |             |                         |             |                               |              |               |               |             |                               |              |             |             |              |              |               |               |              |             |             |             |             |             |             |             |               |             |
| EEs - stn 300°C max  | 4           | <b>A2 A40</b> | <b>L</b> Fe - CuNi DIN        | <b>1</b> Grounded                |              |                   |              |                |                 |                  |                     |             |                               |              |             |                         | <b>0150</b> | <b>H</b> 3/8" Gas - L15 CH-22 | <b>02</b> 20 | <b>15</b> 1.5 |               |             |                               |              |             |             |              |              |               |               |              |             |             |             |             |             |             |             |               |             |
| EEs - inox 350°C max | 4           | <b>A2 B40</b> |                               |                                  |              |                   |              |                |                 |                  |                     |             |                               |              |             |                         |             |                               |              |               |               |             |                               |              |             |             |              |              |               |               |              |             |             |             |             |             |             |             |               |             |
| TS 0 200°C max       | 4           | <b>A2 D40</b> | <b>T</b> Cu - CuNi IEC        | <b>2</b> Exposed                 |              |                   |              |                |                 |                  |                     |             |                               |              |             |                         |             |                               |              |               |               | <b>0200</b> | <b>I</b> 1/2" Gas - L15 CH-24 | <b>03</b> 30 | <b>20</b> 2 |             |              |              |               |               |              |             |             |             |             |             |             |             |               |             |
| TT 0 220°C max       | 4           | <b>A2 E40</b> |                               |                                  |              |                   |              |                |                 |                  |                     |             |                               |              |             |                         |             |                               |              |               |               |             |                               |              |             |             |              |              |               |               |              |             |             |             |             |             |             |             |               |             |
| SS 0 200°C max       | 4           | <b>A2 F40</b> | <b>3</b> Insulated 120° tip * |                                  | <b>0250</b>  |                   |              |                |                 |                  |                     |             |                               |              |             |                         |             |                               |              |               |               |             |                               |              |             |             | <b>05</b> 50 | <b>05</b> 50 | <b>25</b> 2.5 | <b>25</b> 2.5 |              |             |             |             |             |             |             |             |               |             |
| TS T 220°C max       | 4           | <b>A2 G40</b> |                               |                                  |              |                   |              |                |                 |                  |                     |             |                               |              |             |                         |             |                               |              |               |               |             |                               |              |             |             |              |              |               |               |              |             |             |             |             |             |             |             |               |             |
| EEs - stn 300°C max  | 5           | <b>A2 A50</b> | <b>4</b> Grounded 120° tip *  |                                  |              |                   |              |                |                 |                  |                     |             |                               |              |             |                         |             |                               |              |               |               |             |                               |              |             |             |              |              |               |               |              | <b>0300</b> | <b>0350</b> | <b>0400</b> | <b>30</b> 3 | <b>30</b> 3 | <b>30</b> 3 |             |               |             |
| EEs - inox 350°C max | 5           | <b>A2 B50</b> |                               |                                  |              |                   |              |                |                 |                  |                     |             |                               |              |             |                         |             |                               |              |               |               |             |                               |              |             |             |              |              |               |               |              |             |             |             |             |             |             |             |               |             |
| TS 0 200°C max       | 5           | <b>A2 D50</b> | <b>0450</b>                   |                                  |              | <b>0450</b>       | <b>0500</b>  | <b>0500</b>    | <b>35</b> 3.5   | <b>35</b> 3.5    | <b>35</b> 3.5       |             |                               |              |             |                         |             |                               |              |               |               |             |                               |              |             |             |              |              |               |               |              |             |             |             |             |             |             |             |               |             |
| TT 0 220°C max       | 5           | <b>A2 E50</b> |                               |                                  |              |                   |              |                |                 |                  |                     |             |                               |              |             |                         |             |                               |              |               |               |             |                               |              |             |             |              |              |               |               |              |             |             |             |             |             |             |             |               |             |
| SS 0 200°C max       | 5           | <b>A2 F50</b> | <b>0500</b>                   |                                  |              |                   |              |                |                 |                  |                     | <b>0500</b> | <b>0020</b>                   | <b>L</b> min | <b>40</b> 4 | <b>40</b> 4             |             |                               |              |               |               |             |                               |              |             |             |              |              |               |               |              |             |             |             |             |             |             | <b>40</b> 4 |               |             |
| TS T 220°C max       | 5           | <b>A2 G50</b> |                               |                                  |              |                   |              |                |                 |                  |                     |             |                               |              |             |                         |             |                               |              |               |               |             |                               |              |             |             |              |              |               |               |              |             |             |             |             |             |             |             |               |             |
| EEs - stn 300°C max  | 5           | <b>A2 A50</b> | <b>0500</b>                   |                                  |              |                   |              |                |                 |                  |                     |             |                               |              |             |                         | <b>0500</b> | <b>0020</b>                   | <b>L</b> min | <b>45</b> 4.5 | <b>45</b> 4.5 |             |                               |              |             |             |              |              |               |               |              |             |             |             |             |             |             |             | <b>45</b> 4.5 |             |
| EEs - inox 350°C max | 5           | <b>A2 B50</b> |                               |                                  |              |                   |              |                |                 |                  |                     |             |                               |              |             |                         |             |                               |              |               |               |             |                               |              |             |             |              |              |               |               |              |             |             |             |             |             |             |             |               |             |
| TS 0 200°C max       | 5           | <b>A2 D50</b> | <b>0500</b>                   |                                  |              |                   |              |                |                 |                  |                     |             |                               |              |             |                         |             |                               |              |               |               | <b>0500</b> | <b>0020</b>                   | <b>L</b> min | <b>50</b> 5 | <b>50</b> 5 |              |              |               |               |              |             |             |             |             |             |             |             |               | <b>50</b> 5 |
| TT 0 220°C max       | 5           | <b>A2 E50</b> |                               |                                  |              |                   |              |                |                 |                  |                     |             |                               |              |             |                         |             |                               |              |               |               |             |                               |              |             |             |              |              |               |               |              |             |             |             |             |             |             |             |               |             |
| SS 0 200°C max       | 5           | <b>A2 F50</b> | <b>0500</b>                   |                                  | <b>0500</b>  |                   |              |                |                 |                  |                     |             |                               |              |             |                         |             |                               |              |               |               |             |                               |              |             |             | <b>0020</b>  | <b>L</b> min | <b>00</b> 10  | <b>00</b> 10  | <b>00</b> 10 |             |             |             |             |             |             |             |               |             |
| TS T 220°C max       | 5           | <b>A2 G50</b> |                               |                                  |              |                   |              |                |                 |                  |                     |             |                               |              |             |                         |             |                               |              |               |               |             |                               |              |             |             |              |              |               |               |              |             |             |             |             |             |             |             |               |             |

Note: for LG, LE and Lc other lengths upon request. Code example: LG = 135mm cod. 0135 / LE = 60mm cod. 06 / Lc = 7m cod. 70, \* Brazing.

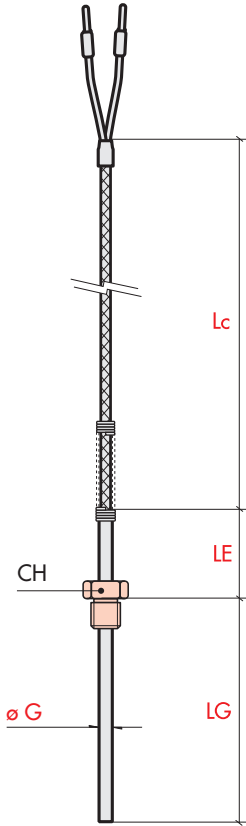
Product code example: **A2 A50 - L 00 - B 0100 - S 00 - 10 P**

Straight thermocouple with tinned EEs wire, ø 5mm sheath, Fe-CuNi DIN, single element, class 2, ungrounded junction round end, AISI 316 sheath, 100mm length, no attaching device, no extension, 1m wire and ø 1.8 terminals.



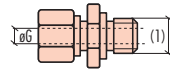
## General purpose sensors with wire

Straight thermocouple,  $\varnothing 6$  to  $\varnothing 8$  mm, optional fixed screw fitting



**Mounting Fittings** (see data sheet Z1 Accessories)  
(for models without fixed attaching device only)

NPT adjustable compression fittings



| Material      | Type of thread (1) | øG | Code          |
|---------------|--------------------|----|---------------|
| AISI 316      | 1/4"G              | 6  | Z1 RFS-B/FO60 |
|               | 1/2"G              | 6  | Z1 RFS-B/IO60 |
|               | 1/4"G              | 8  | Z1 RFS-B/FO80 |
|               | 1/2"G              | 8  | Z1 RFS-B/IO80 |
| Treated brass | 1/4"G              | 6  | Z1 RFS-O/FO60 |
|               | 1/2"G              | 6  | Z1 RFS-O/IO60 |
|               | 1/4"G              | 8  | Z1 RFS-O/FO80 |
|               | 1/2"G              | 8  | Z1 RFS-O/IO80 |

| Type of wire         | Diam. øG mm | Base code     | Thermocouple type      | Element N° and limits            | Hot junction | Sheath material   | Sheath LG mm | Type of thread                | Extension LE mm | Wire length Lc m | Type of termination              |                              |
|----------------------|-------------|---------------|------------------------|----------------------------------|--------------|-------------------|--------------|-------------------------------|-----------------|------------------|----------------------------------|------------------------------|
| EEs - stn 300°C max  | 6           | <b>A2 A60</b> | <b>J</b> Fe - CuNi IEC | <b>0</b> Single Cl. 2 (standard) |              | <b>B</b> AISI 316 | <b>0050</b>  | <b>S</b> None                 | <b>00</b> None  | <b>05</b> 0.5    | <b>P</b> Terminals ø 1.4-1.8 max |                              |
| EEs - inox 350°C max | 6           | <b>A2 B60</b> |                        |                                  |              |                   |              |                               |                 |                  |                                  | <b>K</b> NiCr - Ni DIN - IEC |
| TS 0 200°C max       | 6           | <b>A2 D60</b> | <b>L</b> Fe - CuNi DIN | Grounded                         | <b>0150</b>  |                   |              | <b>H</b> 3/8" Gas - L15 CH-22 | <b>02</b> 20    | <b>15</b> 1.5    | <b>G</b> Standard plug           |                              |
| TT 0 220°C max       | 6           | <b>A2 E60</b> |                        |                                  |              |                   |              |                               |                 |                  |                                  | <b>T</b> Cu - CuNi IEC       |
| SS 0 200°C max       | 6           | <b>A2 F60</b> | Exposed                | <b>0250</b>                      | <b>0350</b>  |                   |              | <b>05</b> 50                  | <b>25</b> 2.5   | <b>30</b> 3      |                                  |                              |
| Ts T 220°C max       | 6           | <b>A2 G60</b> |                        |                                  |              |                   |              |                               |                 |                  | Insulated 120° tip *             | <b>0300</b>                  |
| EEs - stn 300°C max  | 8           | <b>A2 A80</b> | Grounded 120° tip *    | <b>0450</b>                      | <b>0500</b>  |                   |              | <b>45</b> 4.5                 | <b>45</b> 4.5   | <b>50</b> 5      |                                  |                              |
| EEs - inox 350°C max | 8           | <b>A2 B80</b> |                        |                                  |              |                   |              |                               |                 |                  | Grounded 120° tip *              | <b>0500</b>                  |
| TS 0 200°C max       | 8           | <b>A2 D80</b> | L min                  | <b>0020</b>                      | <b>0020</b>  |                   |              |                               |                 |                  |                                  |                              |
| TT 0 220°C max       | 8           | <b>A2 E80</b> |                        |                                  |              |                   |              |                               |                 |                  |                                  |                              |
| SS 0 200°C max       | 8           | <b>A2 F80</b> |                        |                                  |              |                   |              |                               |                 |                  |                                  |                              |
| Ts T 220°C max       | 8           | <b>A2 G80</b> |                        |                                  |              |                   |              |                               |                 |                  |                                  |                              |

**Note:** for LG, LE and Lc other lengths upon request. Code example: LG = 135mm cod. 0135 / LE = 60mm cod. 06 / Lc = 7m cod. 70, \* Brazing.

**Product code example:** **A2 A60 - L 0 0 - B 0100 - S 00 - 10 P**

Straight thermocouple with tinned EEs wire, sheath ø 6mm, Fe-CuNi DIN, single element, class 2, ungrounded junction plain end, AISI 316 sheath, 100mm length, no compression fitting, no extension, 1m wire and ø 1.8 terminals.