

# CA 1007 Gas and air temperature thermocouple

## Protection tube

|                      |                                |
|----------------------|--------------------------------|
| Construction         | Open-end perforated tube, 9 mm |
| Material             | SS 316 - (Wst 1.4401)          |
| Insertion length "L" | Customer to specify            |
| Process connection   | 1 / 2" BSP                     |

## Connection head

|             |                          |
|-------------|--------------------------|
| Model       | "B", according DIN 43729 |
| Material    | Cast aluminium           |
| Cable entry | M20 x 1.5 cable gland    |

## Measuring insert

|              |                       |
|--------------|-----------------------|
| Type         | MI 1025               |
| Construction | Replaceable           |
| Diameter     | 6 mm- tip open        |
| Length "E"   | E = L + 40 mm         |
| Material     | SS 316 - (Wst 1.4401) |

## Thermocouple

|             |                                 |
|-------------|---------------------------------|
| Calibration | K, T, J, E, N, U or L           |
| For duplex  | KK, TT, JJ, EE, NN, UU or LL    |
| Accuracy    | According IEC 584-1 / DIN 43710 |

## Options

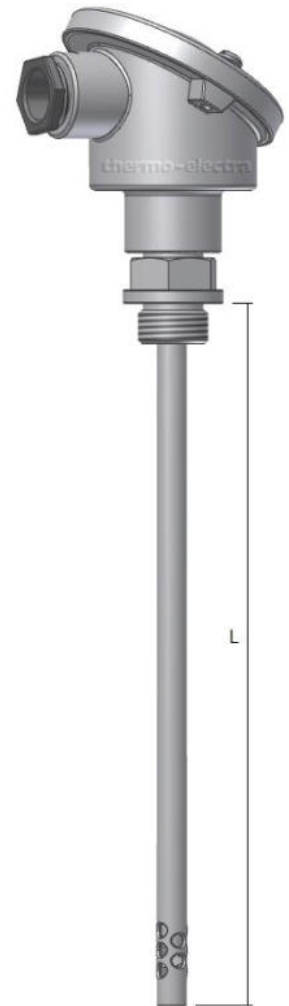
|                       |                                                                                                                                                            |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Transmitter 4-20mA    | In-Head Transmitter, standard or ATEX Explosion proof.<br>Please select from our standard range, see "transmitter" chapter, specify make, model and range. |
| Swing-Cover head      | DAN. Transmitter direct mounted on measuring insert                                                                                                        |
| High Swing-Cover head | DAN-H. Transmitter in cover. Insert with ceramic block                                                                                                     |

## Thermokoppel kleurcodes

| Thermocouple<br>Extension Type   | ANSI | IEC |
|----------------------------------|------|-----|
| JX + Iron<br>- Constantan ®      |      |     |
| KX + Chromel ®<br>- Alumel ®     |      |     |
| TX + Copper<br>- Constantan ®    |      |     |
| EX + Chromel ®<br>- Constantan ® |      |     |
| NX + Nicrosil ®<br>- Nisil ®     |      |     |
| SX + Copper<br>RX - Alloy 11     |      |     |
| BX + Copper-S<br>- Copper-E      |      |     |

## Toleranties volgens IEC 584-2

| Type    | Class | Temperature range   | Fixed value °C | Tolerance to temp. t (°C) |
|---------|-------|---------------------|----------------|---------------------------|
| T       | 1     | - 40°C to + 350°C   | ± 0,5          | ± 0,004 ·  t              |
|         | 2     | - 40°C to + 350°C   | ± 1            | ± 0,0075 ·  t             |
|         | 3     | - 200°C to + 40°C   | ± 1            | ± 0,015 ·  t              |
| E       | 1     | - 40°C to + 800°C   | ± 1,5          | ± 0,004 ·  t              |
|         | 2     | - 40°C to + 900°C   | ± 2,5          | ± 0,0075 ·  t             |
|         | 3     | - 200°C to + 40°C   | ± 2,5          | ± 0,015 ·  t              |
| J       | 1     | - 40°C to + 750°C   | ± 1,5          | ± 0,004 ·  t              |
|         | 2     | - 40°C to + 750°C   | ± 2,5          | ± 0,0075 ·  t             |
|         | 3     | -                   | -              | -                         |
| K and N | 1     | - 40°C to + 1000°C  | ± 1,5          | ± 0,004 ·  t              |
|         | 2     | - 40°C to + 1200°C  | ± 2,5          | ± 0,0075 ·  t             |
|         | 3     | - 200°C to + 40°C   | ± 2,5          | ± 0,015 ·  t              |
| R and S | 1     | 0°C to + 1600°C     | ± 1,0          | ± [1+0,003 · (t-1100)]°C  |
|         | 2     | 0°C to + 1600°C     | ± 1,5          | ± 0,0025 · t              |
|         | 3     | -                   | -              | -                         |
| B       | 1     | + 600°C to + 1700°C | -              | -                         |
|         | 2     | + 600°C to + 1700°C | ± 1,5          | ± 0,0025 · t              |
|         | 3     | + 600°C to + 1700°C | ± 4            | ± 0,005 · t               |



## Ordering code

|                         |         |  |  |
|-------------------------|---------|--|--|
| Model                   | CA 1007 |  |  |
| Calibration             |         |  |  |
| Insertion length "L" mm |         |  |  |

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