Short Form Data Sheet

# W-Series Temperature

**BETA** products are manufactured in The Netherlands

## Enclosures:

**Cast Aluminum:**
Oven baked powder coating
hammertone grey

**Also available in SS 316**

Explosion-Proof IP 66 -
EN IEC 60079 - Ex d / Ex tb
(Nema 4X)

**Repeatablity:**
typical 0.2% of Full Scale

**Standard unit**:
Degrees Celsius

**Optional:** Fahrenheit

**Standard process connetion:**
1/2" NPT M

**Standard Buld Diameter**:
10 mm

**For wetted parts:**
more possibilities available,
see full catalogue

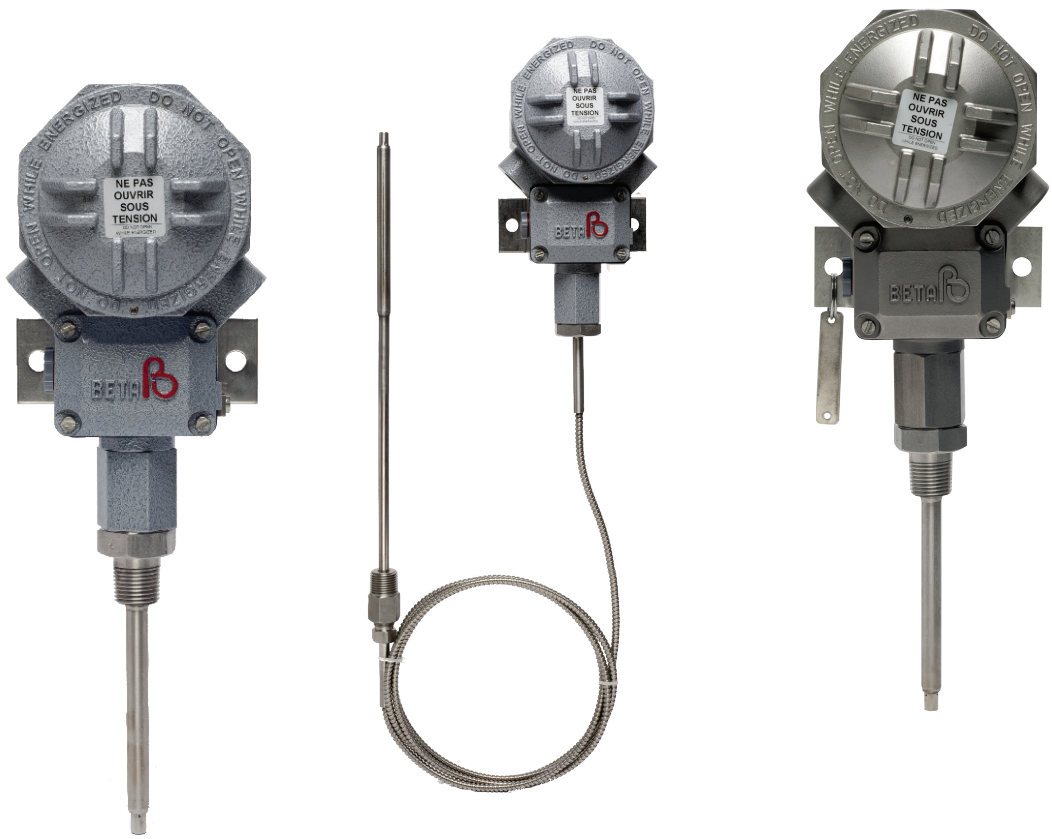
**BETA SWITCHES ARE, BUILD TO LAST!**

**Do you want to know more:**

Please contact your local dealer and ask for the General Bulletin. Or contact us directly!




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## Ranges for Temperature swiches.

| RANGE CODE | ADJUSTABLE RANGE | | MAX. DEADBAND [3] | | MAX. TEMPERATURE | | PROOF TEMPERATURE | | MAX. PROCESS PRESSURE | |
|---|---|---|---|---|---|---|---|---|---|---|
| T 528 H | -40 /+40 | °C | 3 | °C | +125 | °C | +200 | °C | 175 | bar |
| T 548 H | 0 /+80 | °C | | | +200 | °C | +250 | °C | | |
| T 568 H | +60 /+180 [1] | °C | | | +300 | °C | +350 | °C | | |
| T 588 H | +160 /+300 [2] | °C | 3.5 | °C | +400 | °C | +450 | °C | | |

1) In case process temperature > 140 °C, Direct mount sensing bulb is not recommended.

2) Not in combination with Direct mount sensing bulb.

3) For deadband calculation in combination with "SR"- and "SP"- micro, Consult Factory.



SP 414.25.02

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*More Short Form Data Sheets on Vacuum, Differential and Temperature Switches are available.*

BETA PRESSURE & TEMPERATURE SWITCHES

# W-Series

Short Form Data Sheet

## Temperature

## Making the modelcode: Follow steps 1 to 5

### 1 Selection of enclosure type.

| Conduit: | Material: | Code: |
|---|---|---|
| 3/4" NPT F | Aluminium | W3 |
| M20 x 1.5 | SS 316 | W8 |
| 3/4" NPT F | SS 316 | W9 |

### 2 Selection of temperature range, - see front page.

### 3 Selection of sensor bulbs.

| Process Connection: | Code: | Type of temperature sensing bulb: | |
|---|---|---|---|
| 1/2" NPT (M) | D00 | Direct mount | 128 mm length |
| | D02 | Direct mount | 225 mm length |
| | C02 | Capillary mount | 2 mtr. cappilary length |
| | C05 | Capillary mount | 5 mtr. cappilary length |
| | C10 | Capillary mount | 10 mtr. cappilary length |
| | CXX | Capillary mount | Special cappilary length |

**Note:** All SS 316 stainless steel sensor, capillary (SS 304 armored) and compression fitting.

1) Not in combination with range T588H (+160/+300 ˚C), not recommended with T568H in case of process temperature >140 ˚C.

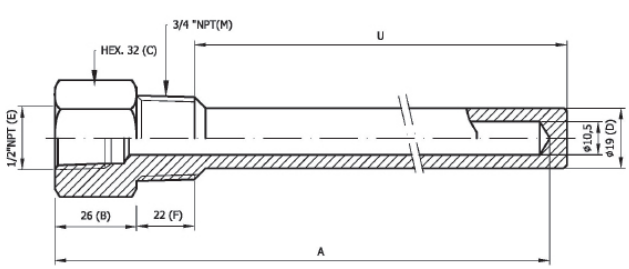
2) Length of capillary should be specified, consult your BETA Switch Representative. (Max 15 m.)

### 4 Selection of diaphragm / O-rings.

All temperature switches have "**S0**" (SS 316) welded diaphragm.

## Accessoires:

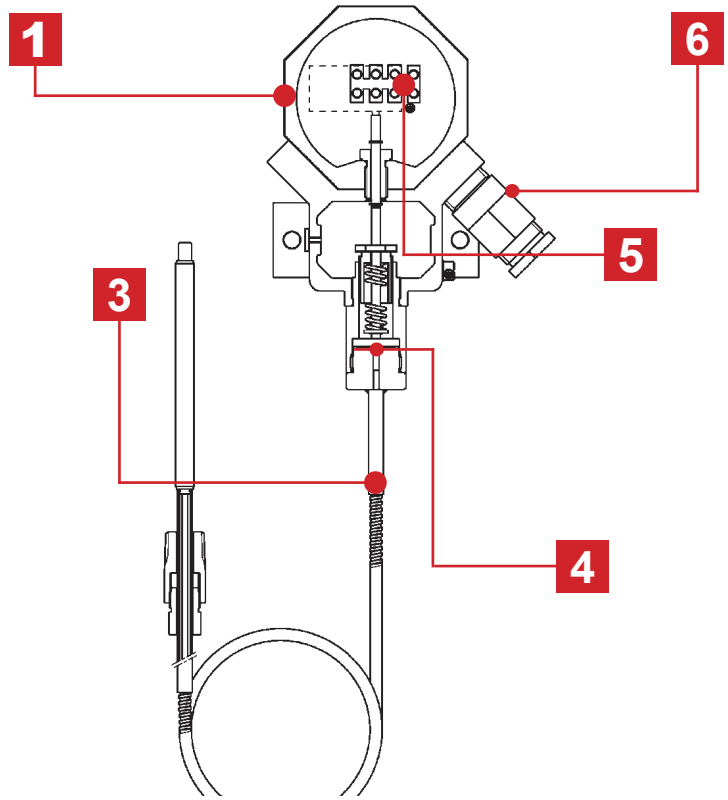
Thermowell (SS 316)




Standard BETA Thermowell:

| Code: | Insertion length "U" (MM): | Insertion Length "A" (MM): | Fit to BETA temp. sensing bulb: |
|---|---|---|---|
| TW 11 | 115 | 155 | D00, C02, C03 |
| TW 15 | 155 | 195 | C02, C03, C05 |
| TW 19 | 190 | 228 | D02, C02, C03 & C05 |

NOTES:
1. BETA Thermowells to be ordered as separate item.
2. Do not include Thermowell code into the switch code.
3. Special Thermowell possible - Consult your BETA Switch Representive.




### 5 Selection of microswitches.

| Rating: VAC. | Rating: VDC. 3) | Use: | Code: 1) | |
|---|---|---|---|---|
| 480/ 15A | 28/ 0.5A | Standard | K1 | 2) |
| 480/ 10A | 28/ 0.5A | Standaard for L-serie | L1 | 2) |
| 480/ 15A | 125/ 0.5A | Normal DC-service | U1 | |
| 125/ 1A | 28/ 0.5A | For use in $H_2S$ environment and/ or for 3) Ex d & Ex tb applications. | G1 | ** |
| 250/ 0.1A | 30/ 0.1A | | Y1 | 1) |
| 250/ 0.1A | 30/ 0.1A | Environmental proof(IP 67) | O1 | 1) |
| 250/ 2A | 30/ 2A | | N1 | 1) |

**1)** For D.P.D.T action, second code figure schould be specifeid as "2"
**For example: Y1** = S.P.D.T./ **Y2** = D.P.D.T

**2)** VDE certified acc. to DIN EN 61 058-1:1992+A1:1993.

**3)** Indicated ratings are for resistive DC load only.

** DC Rating not U.L. listed, although experience and third party testing confirm the D.C Voltage ratings. Consult your local BETA switch Representative.

### 6 Selection of options.

| Description: | Code: |
|---|---|
| Cable gland | C |
| Stainless steel tag key ringed to enclosure (Tag has 2 lines - 16 charaters per line) | S |
| Epoxy coating of switch. (External) Only in combination SS 316 process connection | Y |

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For extended selection and/ or specified technical information, please ask for the "BETA User Friendly" Catalogue.