

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)

Repeatability:
typical 0.2% of Full Scale

Standard unit:
Degrees Celsius

Optional: Fahrenheit

Standard process connection:
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!



WWW.BETA-B.NL



Ranges for Temperature switches.

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	+95 °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.



Disclaimer:

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incorrect interpretation or possible lack of information in this document.
It is clearly and only intended as coarse and general information of our products.

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. capillary length
	C05	Capillary mount	5 mtr. capillary length
	C10	Capillary mount	10 mtr. capillary length
	CXX	Capillary mount	Special capillary length

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

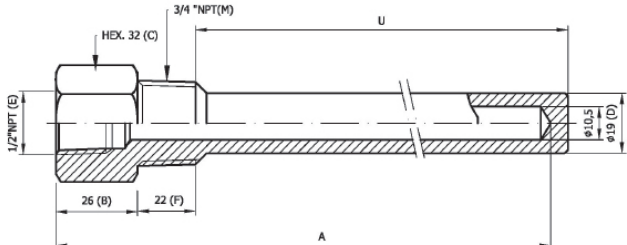
- 1) Not in combination with range T588H (+160/+300 °C), not recommended with T568H in case of process temperature >140 °C.
- 2) Length of capillary should be specified, consult your BETA Switch Representative. (Max 15 m.)

4 Selection of diaphragm / O-rings.

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

Accessoires:

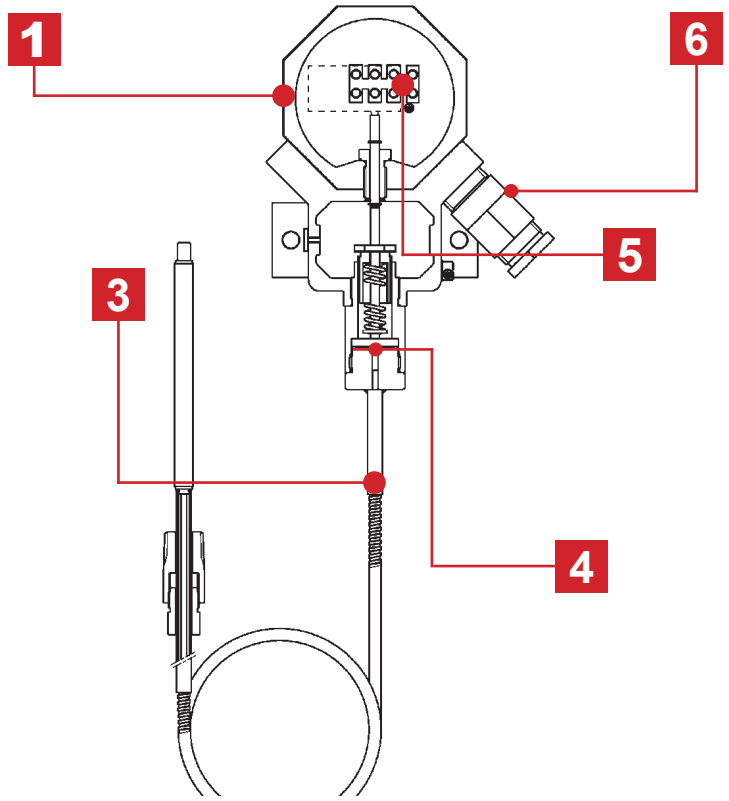
Thermowell (SS 316)



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:**
- BETA Thermowells to be ordered as separate item.
 - Do not include Thermowell code into the switch code.
 - Special Thermowell possible - Consult your BETA Switch Representative.



5 Selection of microswitches.

Rating:		Use:	Code:
VAC.	VDC. 3)		
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 ₂ S environment and/ or for Ex d & Ex tb applications. 3)	G1 **
250/ 0.1A	30/ 0.1A	Environmental proof(IP 67)	Y1 1)
250/ 0.1A	30/ 0.1A		O1 1)
250/ 2A	30/ 2A		N1 1)

1) For D.P.D.T action, second code figure should be specified 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