

W-Series

PRESSURE

Short Form Data Sheet

BETA products are manufactured in The Netherlands

Enclosures:

Cast Aluminum:

Oven baked powder coating
hammer tone grey

Also available in SS 316

Explosion-Proof (IP 66) -
EN IEC 60529 - Eex-d IIC T6
(Nema 4X)

Repeatability:

typical 0.2% of Full Scale

Range & Scale:

Standard unit: **Barg**
Optional: **PSI / Kg / Pa**

Standard process connection:
1/4" NPT (F) or BSP (F)

Standard Diaphragm/O-ring:
Buna N / Buna N

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 Pressure switches

RANGE CODE	ADJ. RANGE mBar/ Bar	ADJ. RANGE PSI / Inch WC	ADJ. RANGE Kpa/ MPa	ADJ. RANGE Kg/cm2 / mmH2O
P 301 L ¹⁾	2 - 15 mBar	0.8 - 6 InchWC	0.2 - 1.5 kPa	20 - 150 mmH2O
P 302 L ¹⁾	10 - 100 mBar	4 - 39 InchWC	1 - 10 kPa	100 - 1000 mmH2O
P 304 L	20 - 240 mBar	8 - 94 InchWC	2 - 24 kPa	200 - 2400 mmH2O
P 306 L	20 - 560 mBar	8 - 220 InchWC	2 - 56 kPa	200 - 5600 mmH2O
P 308 L	25 - 1300 mBar	10 - 510 InchWC	2.5 - 130 kPa	250 - 13000 mmH2O
P 402 M	100 - 400 mBar	1.5 - 5.8 PSI	10 - 40 kPa	0.1 - 0.41 Kg/cm2
P 404 M	100 - 950 mBar	1.5 - 14 PSI	10 - 95 kPa	0.1 - 0.97 Kg/cm2
P 406 M	120 - 2300 mBar	1.7 - 33 PSI	12 - 230 kPa	0.12 - 2.3 Kg/cm2
P 408 M	150 - 5400 mBar	2.1 - 78 PSI	15 - 540 kPa	0.15 - 5.45 Kg/cm2
P 502 H	0.3 - 1.6 Bar	4.4 - 23 PSI	0.03 - 0.16 MPa	0.3 - 1.60 Kg/cm2
P 504 H	0.4 - 3.5 Bar	5.8 - 51 PSI	0.04 - 0.35 MPa	0.4 - 3.5 Kg/cm2
P 506 H	0.5 - 9.0 Bar	7.3 - 130 PSI	0.05 - 0.9 MPa	0.5 - 9.2 Kg/cm2
P 508 H	0.7 - 21.5 Bar	10 - 310 PSI	0.07 - 2.15 MPa	0.7 - 22 Kg/cm2
P 706 H	2.5 - 32 Bar	36 - 464 PSI	0.25 - 3.2 MPa	2.5 - 33 Kg/cm2
P 708 H	3.0 - 76 Bar	44 - 1100 PSI	0.3 - 7.6 MPa	3.1 - 77 Kg/cm2
P 808 H	4.0 - 170 Bar	58 - 2500 PSI	0.4 - 17 MPa	4 - 170 Kg/cm2
P 908 H	10 - 300 Bar	150 - 4400 PSI	1 - 30 MPa	10 - 310 Kg/cm2
P 909 H	10 - 350 Bar	150 - 5100 PSI	1 - 35 MPa	10 - 360 Kg/cm2

¹⁾ Only available with L1 -microswitch element. K1 possible consult factory).

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

Making the modelcode: Follow steps 1 to 5

1 Selection of enclosure type.

Conduit	Material	Enclosure code
3/4" NPT F	Aluminium	W3
M20x1.5	SS 316	W8
3/4" NPT F	SS 316	W9

2 Selection of range code, see front page.

3 Selection of process connection.

Size	Material	Code
1/4"NPT F	Aluminium *	A1N
1/2"NPT F	Aluminium *	A2N
1/4"NPT F	SS316	S1N
1/2"NPT F	SS316	S2N
1/2"NPT M	SS316	S7N

* Aluminum only, std on P.L. - **Not available** on other ranges.

Above standard process connections are also available in: "BSP"

For example: 1/2" BSP F (316) = **S2B**

Process connections are also available in other materials like, Monel, PVC, Hastelloy, Titanium etc.

4 Selection of wetted parts.

Diaphragm	O-ring	* Code
Buna N	Buna N	B1
Viton	Viton	V2
SS316	Buna N	S1
SS316	Viton	S2
SS316	Neoprene	S3
SS316	Teflon	S4
SS316	Welded	S0

* WETTED PARTS ARE NOT GUARANTEED,

against corrosion or permeation since processes vary from plant to plant and concentration of harmful fluids, gasses or solids vary from time to time in a given process. Empirical experience by users should be the final guide and alternate materials based on this are generally available. The diaphragm / O-Ring combinations are for process temperatures of -5°C to +90°C, unless otherwise indicated. For process temperatures beyond these limits please contact your BETA Switch Representative

Accessoires:

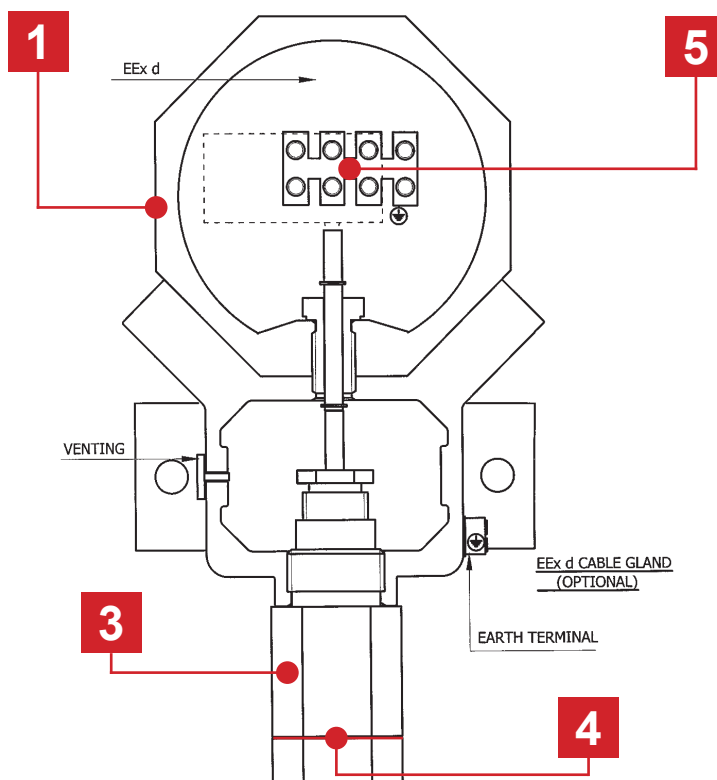
2" Pipe mount bracket set available.

Contents :

2 x Bracket +
2 x bolts M8 x 100 mm + nut

Disclaimer :

This pipe mount bracket is solely intended for use in combination with BETA Pressure & Temperature Switches. Foundation vibrations, as well as process vibrations, can disturb the proper functioning of the mounted instrument, the use of this bracket does not prevent or diminishes such occurrence.



5 Selection of microswitches.

Rating:		Use:	Switch 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 ²⁾
125/ 1A	28/ 0.5A	For use in H ₂ S environment and/or for (EEx)i applications. ³⁾	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 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	Option code
Cable gland	C
Vacuum Protection Plate	M
Stainless steel tag key ringed to enclosure (Tag has 2 lines - 16 characters per line)	S