

Enclosures:

Cast Aluminum:

Oven baked powder coating
hammer tone grey

Also available in SS 316

Wheaterproof IP 66 -
EN 60529

ATEX: Ex de IIC T6

Repeatability:
typical 0.2% of Full Scale

Standard unit: Barg

Optional: PSI / Kg / Pa

Standard process connction:
1/4" NPT F or BSP F

Standard Diaphragm/O-ring:

D...L/ M: Buna N / Buna N

D...H: TCP/ Buna N

For wetted parts:
more possibilities available,
see full catalogue

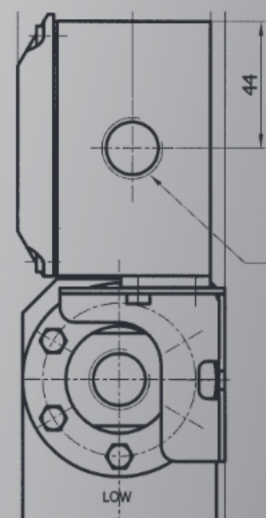
**BETA SWITCHES ARE,
BUILD TO LAST!**

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 Differential switches

RANGE CODE	ADJUSTABLE RANGE DIFF. RANGE ¹⁾		TYPICAL DEADBAND ¹⁾		MAX. STATIC PRESSURE		MAX. OVERRANGE PRESSURE		PROOF PRESSURE	
	mBar / Bar		mBar / Bar		Bar		Bar		Bar	
D 302 L	12 - 75 ²⁾	mBar	7	mBar	30	Bar	30 ³⁾	Bar	35	Bar
D 304 L	22 - 180	mBar	8	mBar						
D 306 L	25 - 450	mBar	11	mBar						
D 309 L	35 - 1250	mBar	15	mBar						
D 402 M	0.3 - 1.0	Bar	0.15	Bar	10	Bar	140 ⁴⁾	Bar	140	Bar
D 404 M	0.5 - 2.5	Bar	0.2	Bar	50	Bar				
D 406 M	1.0 - 6.0	Bar								
D 408 M	1.0 - 14.5	Bar								
D 506 M	5 - 20	Bar	0.8	Bar	100	Bar				
D 508 M	10 - 50	Bar								
D 608 M	10 - 70	Bar	1.5	Bar	140	Bar				
D 352 H	80 - 160	mBar	25	mBar	200	Bar	200 ⁴⁾	Bar	200	Bar
D 354 H	100 - 500	mBar	35	mBar						
D 356 H	120 - 1450	mBar	50	mBar						
D 359 H	150 - 3450	mBar	75	mBar						

NOTES:

- 1) Ranges and deadbands are given at 50% of Max. Static pressure.
All differential pressure sensors are sensitive to static pressure, both for setpoint and deadband.
- 2) Range only with L1 micro switch.
- 3) D...L can withstand a differential pressure P-low max. 1 bar above P-High.
- 4) D...M, D...H can sustain full High and Low-side reversal.

IN THE FOLLOWING TABLE THE ESTIMATED INFLUENCE FOR INCREASING STATIC PRESSURE IS GIVEN.

SENSOR	SETPOINT	DEADBAND
D...L	- 0.7 mBar/Bar	= - 0.1 mBar/Bar
D...M	= + 3 mBar/Bar	+ 10 mBar/Bar
D...H	- 2 mBar/Bar	= - 0.4 mBar/Bar

Example: D...H-type Diff. setpoint: 1 bar (1000 mbar).

If static pressure increases 10 bar Diff.setpoint will be (10 x - 2 mbar) = - 20 mbar less = 980 mbar.

NOTE: For differential application outside above ranges consult your BETA Switch Representative.

Disclaimer: We reserve the right to make changes or modify the contents of this document without prior notice.
BETA B.V. does not accept any liability or claim whatsoever for potential errors, incorrect interpretation or possible lack of information in this document. It is clearly and only intended as coarse and general information of our products.

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

Making the modelcode: Follow steps 1 to 5

1 Selection of enclosure type.

Conduit	Material	Enclosure code
Pg13.5	Aluminium	Z1
M20x1.5	Aluminium	Z2
3/4" NPT F	Aluminium	Z3
1/2" NPT F	Aluminium	Z4
M20x1.5	SS 316	Z8
3/4" NPT F	SS 316	Z9

2 Selection of range code, see front page

3 Selection of process connection.

Size	Material	Code
1/4"NPT F	SS316 *	S1N
1/4"BSP F	SS316 *	S1B
1/4"NPT F	Aluminium **	A1N
1/4"BSP F	Aluminium **	A1B
1/2"NPT M	SS316	S7N
* Only for D..H, D..D and D..M available		
** D.. L: A1N or A1B For low side only. High side: Only "L"-sensor connection		
Proces connection according to NACE standard are available. Consult your local BETA Switch Representative.		

4 Selection of wetted parts *

Diaphragm	O-ring	Code
Buna N	Buna N	B1 **
PTFE	Buna N	P1
SS316	Buna N	S1
SS316	Viton	S2
SS316	Teflon	S4 **
SS316	EPDM	S6
SS316	Welded	S0 **

** Not possible for D..H. (P1 = Standard for D..H)

* **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



5 Selection of microswitches

Rating		Use:	Switch Code:
VAC.	VDC.		
250/ 5A	250/ 0.25A	ATEX approved. For z-series only	R1
250/ 5A	250/ 0.25A		R2

1) For D.P.D.T action, second code figure should be specified as "2"
For example: R1 = S.P.D.T./ R2 = D.P.D.T

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
Epoxy coating of switch. (External) Only in combination SS 316 process connection	Y

* Not possible for D..H, standard for D..L sensor.

Accessoires:

2" Pipe mount bracket set available.

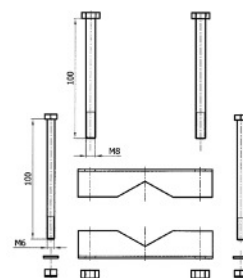
Contents :

2 x bolts M6 x 100 mm + washer + nut
Size +/- 1,5 mm / Material SS 304

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.



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