Enclosures:
Cast Aluminum: Oven baked powder coating hammertone grey

## Also available in SS 316

Wheaterproof IP 66 EN 60529 - Ex d / Ex tb (Nema 4X) Repeatablity: typical 0.2\% of Full Scale

Range \& Scale Standard unit: Barg Optional: PSI / Kg / Pa
Standard process connetion: $1 / 4$ " NPT (F) or BSP (F)
Standard Diaghragm/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, BUOLD 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 Differential swiches

| RANGE CODE | ADJUSTABLE DIFF. RANGE |  | $\begin{array}{cc} \hline \text { TYPICAL } & \\ \text { DEADBAND } \end{array}$ |  | MAX. STATIC PRESSURE |  | MAX. OVERRANGE PRESSURE |  | $\begin{gathered} \text { PROOF } \\ \text { PRESSURE } \end{gathered}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | mBar / Bar |  | mBar / Bar |  | Bar |  | Bar |  | Bar |  |
| D 302 L | 12-75 ${ }^{\text {2) }}$ | mBar | 7 | mBar | 30 | Bar | $30 \quad 3)$ | 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 deadabands 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 | $-0.7 \mathrm{mBar} / \mathrm{Bar}$ | $=-0.1 \mathrm{mBar} / \mathrm{Bar}$ |
| D...M | $=+3 \mathrm{mBar} / \mathrm{Bar}$ | $+10 \mathrm{mBar} / \mathrm{Bar}$ |
| D...H | $-2 \mathrm{mBar} / \mathrm{Bar}$ | $=-0.4 \mathrm{mBar} / \mathrm{Bar}$ |

Example: D...H-type Diff. setpoint: 1 bar (1000 mbar).
If static pressure increases 10 bar Diff.setpoint will be $(10 x-2 \mathrm{mbar})=-20 \mathrm{mbar}$ less $=980 \mathrm{mbar}$.
NOTE: For differential application outside above ranges consult your BETA Switch Representative.

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| :--- | :--- | We reserve the right to make changes or modify the contents of this document without pior notice. or possible lack of information in this document. It is clearly and only intented as course 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 $\times 1.5$ | 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 | SS 316 | $*$ |
| $1 / 4 "$ BSP F | SS 316 | $*$ |
| $1 / 4 "$ SPT F | Aluminium | ${ }^{* *}$ |
| $1 / 4 "$ SSP F | Aluminium | ${ }^{* *}$ |
| $1 / 2 "$ A1N |  |  |
| A1B M | SS 316 | S7N |


| $* *$ | Only for D..H, D..D and D..M available |
| :---: | :---: |
| $* *$ | D.. L: A1N or A1B For low side only. <br> High side: Only "L"-sensor connection |
| Proces connection according to NACE standard are available. <br> Consult your local BETA Switch Representative. |  |

## Selection of wetted parts

| Diaphragm: | O-ring: | Code: |
| :---: | :---: | :---: |
| Buna N | Buna N | B1 |
| Viton | Viton | V2 |
| SS 316 | Buna $N$ | S1 |
| SS 316 | Viton | S2 |
| SS 316 | Teflon | S4 |
| SS 316 | EPDM | S6 |
| SS 316 | Welded | SO |

${ }^{* *}$ Not possible for D.H. (P1 = Standard for D..H)


Accessoires:



| 5 Selection of microswitches. |  |  |  |
| :---: | :---: | :---: | :---: |
| Rating: |  | Use: | Code: |
| VAC. | VDC. ${ }^{3 /}$ |  |  |
| 480/ 15A | 28/0.5A | Standard | K1 |
| 480/ 10A | 28/0.5A | Standaard for L-serie | L1 ${ }^{\text {2) }}$ |
| 480/ 15A | 125/0.5A | Normal DC-service | U1 |
| 125/1A | 28/0.5A | For use in $\mathrm{H}_{2} \mathrm{~S}$ environment ${ }^{3}$ | G1 |
| 250/0.1A | 30/0.1A | Exd\& Ex to applications. | Y1 1) |
| 250/0.1A | 30/0.1A | Environmental proof | $01{ }^{1)}$ |
| 250/ 2A | 30/2A | (PP67) | 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.

Selection of options.

| Description: | Code: |
| :---: | :---: |
| Cable gland | $\mathbf{C}$ |
| Vacuum Protection Plate | $\mathbf{M}$ |
| Stainless steel tag key <br> ringed to enclosure <br> (Tag has 2 lines - 16 charaters per line) | $\mathbf{S}$ |

[^0]
[^0]:    * Not possible for D..H. (Standard for D..L)

