



EDS

Differential Pressure Switch (Weather Proof) Diaphragm Type

Special Features

- Highaccuracy & repeatability
- SS wetted parts
- Set point locking
- Highly reliable
- Diaphragm seals (optional)

Applications

- Filter monitoring, boiler, furnace, railway engines
- Oil & gas, conventional & nuclear power plants, mines, iron & steel plants, refineries, petrochemical, food & pharmaceutical, chemical & fertilizer, cement, textile, pumps, glass, paint, pulp & paper, marine industries.



Specifications

Standard Version

Repeatability : $\pm 0.5\%$ F. S.

Scale unit : bar

Range : Refer "how to order"

Set point : Between 20 to 80% F. S. for better performance

Overpressure limit : 150% of F. S.

Differential : Fixed

Mounting : Direct / Panel

Process connection : 1/4" NPT (F)

Enclosure protection : W/P to IP 66

Enclosure material : Pressure die cast aluminum

Maximum process temperature : 150 °C Ambient temperature : -10 to 60 °C

Switch : 1 SPDT, snap action micro switch Switch rating : 15 A, 250 VAC, 0.2 A, 220 VDC

High voltage strength : 0.5 to 0.6 KV between open contacts and 2 KV between contacts and body

Insulation resistance : >100 M ohms at 500 V

Sensing element : Diaphragm

DP chamber material : Aluminum (for range 5 to 600 mbar)

AISI 316 SS (for range 3 to 20 mbar & 1 to 25 bar)

Sensing element material

Cable gland

Scale Accuracy

Conformity

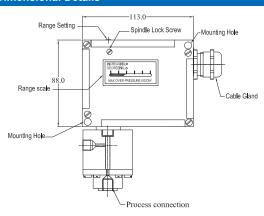
AISI 316L SS

PG 13.5 mm

± 1.0% F. S.

BS 6134

Dimensional Details



Notes: • Drawings are not to scale. • All Dimensions are in mm.



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| low to | oraci | | | | | | Exam | | |
|-------------------|---|------------------------|--|--|--|---------------------------|------|--|--|
| Basic Model | | | | | | | | | |
| ange (* | Also available in AISI 316 | SS & AISI 316L v | ersion. Refer DP | chamber mater | rial) | | | | |
| Order Cod | | DP Chamber Material | Ordering Code | Range (bar) | DP Chamber Material | | | | |
| W020 | 0 3 to 20 | AISI 316 SS | P001 | 0.1 to 1 | AISI 316 SS | | | | |
| W060 | 0 5 to 60 | Aluminum* | P002 | 0.2 to 2 | AISI 316 SS | | | | |
| W100 | 0 10 to 100 | Aluminum* | P004 | 0.4 to 4 | AISI 316 SS | | XXX | | |
| W250 | 0 25 to 250 | Aluminum* | P006 | 0.6 to 6 | AISI 316 SS | | | | |
| W400 | 0 40 to 400 | Aluminum* | P010 | 1 to 10 | AISI 316 SS | | | | |
| W600 | 0 60 to 600 | Aluminum* | P016 | 1 to 16 | AISI 316 SS | | | | |
| | | | P025 | 2 to 25 | AISI 316 SS | | | | |
| lote : Otl | her equivalent scale units li | ke kg/cm², kPa, Ml | Pa, psi, mmWC | etc can be provi | ded on request. | | | | |
| | nber Material | | | | | | | | |
| | ISI 316L SS ISI 316 SS (Standard for Ra | ange 3 to 20 mbar | · & 1 to 25 bar or | nlv) | | | XX | | |
| | Element Material | 90 0 10 20 111001 | | | | | | | |
| | AISI 316L SS (Standard) | | | | | | XX | | |
| ifferent | | | | | | | | | |
| Fi | ixed (Standard) | A Adius | stable (for ISPD |)T only) | | | | | |
| Note : 1 S 2 S | SPDT = 3 to 5% FS SPDT = 4.5 to 7.5% FS DPDT = 4.5 to 7.5% FS | • | stable : 1 SPDT | • / | F.S. | | Х | | |
| ype of N | Micro Switch | | | | | | | | |
| S 1 | SPDT 2S | 2 SPDT | 1D | 1 DPDT | | | XX | | |
| /licro Sw | vitch Rating | | | | | | | | |
| Switch Code | Description | AC Rating | AC Rating (Resistive) | DC Rating (Inductive) | Available on 1 SPDT | Available on 2 SPDT | | | |
| GPL | Low dead band and fixed | 15 A 250 V | 2 A 24 V 0.4 A 110 V 0.2 A 220 V | 2 A 24 V 0.4 A 110 V 0.2 A 220 V | Fixed differential of ZDD | Fixed differential of ZDD | XX | | |
| GPH | Standard dead band | 15 A 250 V | 6 A 24V 0.5 A 110 V 0.25 A 220 V | 5 A 24 V 0.05 A 110 V 0.03 A 220 V | Fixed differential of ZDD | Fixed differential of ZDD | | | |
| GPA | Adj. differential micro switch | 15 A 250 V | | | Adj. differential of of ZDD | NA | | | |
| GPG | Gold plated contact | 1 A 125 V | 0.5 A 28 V | | Fixed differential of ZDD | Fixed differential of ZDD | | | |
| SES | Environmentally sealed silver contact | 15 A 250 V | 0.4 A 125 V | | Fixed differential of ZDD | Fixed differential of ZDD | | | |
| SEG | Environmentally sealed gold contact | | 1 A 28 V | | Fixed differential of ZDD | Fixed differential of ZDD | | | |
| HSS | Hermetically sealed silver plated | 4 A 230 V | 3 A 28 V | 2 A 24 V | Fixed differential of ZDD | Fixed differential of ZDD | | | |
| HSG | Hermetically sealed gold plated | 1 A 125 V | NA | NA | Fixed differential of ZDD | Fixed differential of ZDD | | | |
| HDC | High DC rating | 10 A 125 V | 10 A 125 V | 6 A 125 V | Fixed differential of ZDD | Fixed differential of ZDD | | | |
| DPD | DPDT Micro switch | 10 A 125 V | 0.2 A 250 V | | Fixed & adjustable differential of ZDD | NA | | | |



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| How | to Order | | | | | | | | | | Example |
|---|--|-----------------------------------|--|------------------------------|-------------------------------|------------------------------------|------|-------------------|------------------|-------------------|---------|
| Calib | ration | | | | | | | | | | |
| I Increasing D Decreasing (Not applicable for adj. Differential) | | | | | | | | | X | | |
| Proce | ess Connections (* Pleas | se men | tion the flange t | ace and fla | nge finish) | | | | | | |
| | | Through adaptors | | | Flanged (As per ANSI B 16.5)* | | | | | | |
| 2NM | 1/4" NPT (M) | 3BM | 3/8" BSP (M) | B09 | 1⁄2" 150 # | B21 | 1" | ' 150 # | B39 | 2" 150 # | |
| 2NF | 1/4" NPT (F) (Standard) | 3BF | 3/8" BSP (F) | B10 | 1⁄2" 300 # | B22 | 1" | ' 300 # | B40 | 2" 300 # | |
| | | 4BM | 1/2" BSP (M) | B11 | 1⁄2" 600 # | B23 | 1" | ' 600 # | B41 | 2" 600 # | XXX |
| | | 4BF | 1/2" BSP (F) | B15 | 3/4" 150 # | B33 | 1 | 1⁄2" 150 # | B51 | 3" 150 # | ^^^ |
| | | 4NM | 1/2" NPT (M) | B16 | 3/4" 300 # | B34 | 1 | 1⁄2" 300 # | B52 | 3" 300 # | |
| | | 4NF | ½" NPT (F) | B17 | 3/4" 600 # | B35 | 1 | 1⁄2" 600 # | B53 | 3" 600 # | |
| Cable | e Entry | | | | | | | | | | |
| DIN | DIN Connection* | ETE | 3/4" ET | | ECB 3/4" | ET DCC | G B | rass | 4PN | 4 PIN Connection* | |
| PGE | PGE PG 13.5 (Std) 2NP ½" NPT (F) | | | NPB 1/2"NPT DCCG Brass 7PN 7 | | | | | 7 PIN Connection | Connection XXX | |
| | 3/4" ET DCCG SS 1 SPDT | NPS | ½"NPT DCC | G SS | | | | | | | |
| Optic | onal extras | | | | | | | | | | _ |
| FPC | Custom designed dia | al | | W | MB Wall M | ountina | Brac | cket (Steel I | Black Pa | inted) | |
| STP SS tag plate | | | 2PM 2" Pipe Mounting | | | | | , | 2007 | | |
| CNS Conformity as per NACE Standard | | ndard | PY4 2" pipe/yoke mounting bracket & 'U' clamp (AISI 304 SS | | | | | amp (AISI 304 SS) | XXX | | |
| MTC Material Test Certificate | | | PYS 2" pipe/yoke mounting bracket & 'U' clamp (AISI 316 | | | | | amp (AISI 316 SS) | | | |
| OXS | OXS Oxygen Service TRC Calibration Certificate International Standar | | | | | te fraceable to National / ards | | | | | |
| Acce | ssories (refer datasheet | for co | mplete specifi | cations) | | | | | | | |
| CT Cooling tower GS | | Over load protector (gauge saver) | | | S | N Snubber | | | | | |
| GC | Gauge cock | | NV4 | Needle va | llve | | | | S | P Siphon | |
| DSS | Diaphragm Sealed | | TC | Sanitary S | Seal (TC Cla | пр Туре |) | | | | |

^{***}Material test certificates will be provided for wetted parts only with chemical chemical composition testing. For others, please consult factory.

Ordering Example: EDS - XXXX - XX - XX - XX - XXX - XXX - XXX - XXX - XXX or XXX

Note: In 2 SPDT Instruments, there may be an error of max ± 2% F. S. between Micro Switches at the set point.