



## PSD

Diaphragm Type Pressure Switch (Weather Proof)

#### **Special Features**

High accuracy & repeatability SS wetted parts Set point locking Highly reliable

Diaphragm seals (optional)

#### **Applications**

Boiler, furnace, railway engines.

Oil & gas, conventional & nuclear power plants, mines, iron & steel plants, refineries, petrochemical, food & pharmaceutical, chemical & fertilizer, cement, textile, glass, paint, pulp & paper, marine industries.



#### **Specifications**

#### Standard Version

Repeatability :  $\pm 0.5\%$  F. S. Accuracy :  $\pm 1.0\%$  F. S.

Scale unit : bar

Range : Refer "how to order"

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

Over pressure limit : 150% of F. S.
Differential : Fixed

Mounting : Bottom / Page

Mounting : Bottom / 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

Top Chamber : Mild Steel (plated)

Bottom Chamber : AISI 316 SS

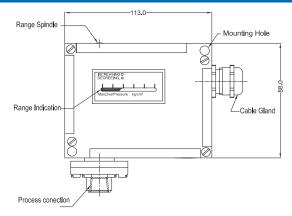
Sensing element material : AISI 316L SS

Cable entry : PG 13.5 mm

Scale Accuracy : ± 1.0% F. S.

Conformity : BS 6134

#### **Dimensional Details**



#### Note

- Drawings are not to scale.
- All Dimensions are in mm.



## **PSD**

# Diaphragm Type Pressure Switch ( Weather Proof )

How To (										Examp
Basic Mo	del									PSD
Range										_
Ordering Code	Range (mbar)	Ordering Code	Range (mbar)	Ordering Code	5	rdering Code	Range (bar)	Ordering Code	Range (bar)	
C020M	-20 to 20	P250M	25 to 250	P001B	0.1 to 1	P016B	1 to 16	C005B	-0.5 to 0.5	
C040M	-40 to 40	P400M	40 to 400	P002B	0.2 to 2	P025B	2 to 25	C011B	-1 to 1	
P020M	3 to 20	P600M	60 to 600	P004B	0.4 to 4	P032B	2 to 32	C012B	-1 to 2	XXXX
P060M	5 to 60			P006B	0.6 to 6	P040B	4 to 40	C014B	-1 to 4	
P100M	10 to 100			P010B	1 to 10	P060B	5 to 40	V001B	-1 to 0	
Note : Oth	er equivalent so	ale units like	kg/cm², kPa, MF	Pa, psi, mmWC	etc can be pr	ovided or	request.			
Chamber	Material (Top)									
MS I	Mild Steel - plate	ed (Standard	) <b>S4</b>	AISI 304 SS	S6	AISI 31	6 SS	SL AISI	316L SS	XX
Chamber	Material (Botto	om)								
<b>36</b> A	ISI 316 SS (Sta	ndard)	MO Monel							XX
	ISI 316L SS		HC Hastell	oy C						-
	Element Materi		TE TEE! ^:							
	ISI 316L SS (S <sup>.</sup> IASTELLOY C	,	TF TEFLOR MONEL							XX
	al / Dead Bend		MONEL							
Fix	red (standard)		<b>A</b> Adjust	table						X
Note:		= O	Note:		0.50/.50					~
	SPDT = 3 to 5 SPDT = 4.5 to		•	SPDT = 5 to 1 SPDT = 7.5 to						
	DPDT = 4.5 to			DPDT = 7.5  to						
Type of M	icro Switch									
IS 15	SPDT		<b>2S</b> 2 SPDT	1D	1 DPDT					XX
Micro Swi	itch Rating									
Switch Code	Descri	ption	AC Rating	AC Rating (Resistive)	DC Rating	-	vailable on 1 SPDT		ilable on SPDT	XXX
GPL	Low dead ban	d 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	ZPD,	d differential o , ZPP, ZDD	of Fixed dif ZPD, ZP	ferential of P, ZDD	
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 ZPD,	d differential o , ZPP, ZDD	of Fixed difficult ZPD, ZP		
GPA	Adj. differentia switch	micro	15 A 250 V			'	differential of ZPP, ZDD	,	le differential ZPP, ZDD	
GPG	Gold plated co	ntact	1 A 125 V	0.5 A 28 V			l differential o ZPP, ZDD	f Fixed diff ZPD, ZP	erential of P, ZDD	
SES	Environmental silver contact	y sealed	15 A 250 V	0.4 A 125 V			d differential o	f Fixed diff ZPD, ZP	ferential of PP, ZDD	
SEG	Environmental gold contact	y sealed		1 A 28 V			d differential o ZPP, ZDD	of Fixed dif	ferential of P, ZDD	
HSS	Hermetically se silver plated	ealed	4 A 230 V	3 A 28 V	2 A 24 V		d differential o , ZPP, ZDD	of Fixed dif ZPD, ZP	ferential of P, ZDD	
HSG	Hermetically so	ealed	1 A 125 V	NA	NA		d differential o , ZPP, ZDD	of Fixed dif ZPD, ZP	ferential of P, ZDD	
HDC	High DC rating		10 A 125 V	10 A 125 V	6 A 125 V		l differential o ZPP, ZDD	f Fixed diff	erential of P, ZDD	
DPD	DPDT Micro sv	vitch	10 A 125 V	0.2 A 250 V			d & adjustable	e NA		



### Diaphragm Type Pressure Switch (Weather Proof)

Hov	v To Order									Example
Calik	oration									
ı	Increasing D Decreasing (Not applicable for adj. differential)									X
Proc	ess Connections (* Pleas	se men	tion the flange face ar	nd flange	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 # <sup>°</sup>	B39	2" 150 #	
2NF	1/4" NPT (F) (Standard)	3BF	3/8" BSP (F)	B10	1⁄2" 300 #	<b>B22</b>	1" 300 #	B40	2" 300 #	
		4BM	½" BSP (M)	B11	1⁄2" 600 #	B23	1" 600 #	B41	2" 600 #	XXX
		4BF	½" BSP (F)	B15	3/4" 150 #	B33	1 ½" 150 #	B51	3" 150 #	
		4NM	½" NPT (M)	B16	3/4" 300 #	B34	1 ½" 300 #	B52	3" 300 #	
		4NF	½" NPT (F)	B17	3/4" 600 #	B35	1 ½" 600 #	B53	3" 600 #	
Cabl	e Entry									
DIN	DIN Connection*	ETE	3/4" ET	ECB	3/4" ET DC	CG Bras	s <b>4PN</b> 4	PIN Cor	nection*	
PGE	PG 13.5 (Std)	2NP	½" NPT (F)	NPB	1/2"NPT DCC	CG Bras	s <b>7PN</b> 7	PIN Cor	nnection	XXX
	3/4" ET DCCG SS 1 SPDT	NPS	½"NPT DCCG SS							
Opti	ons									
FPC	Calibration certificate			WMB Wall mounting bracket (steel plated)						
STG	SS Tag plate			PYM 2" Pipe mounting						
CNS	- ·				PY4 2" Pipe/yoke mounting bracket & 'U' clamp (AISI 304 SS)					
MTC	C Material test certificates***				PY6 2" Pipe/yoke mounting bracket & 'U' clamp (AISI 316 SS)					
oxs	Oxygen service								•	
TRC	Calibration certificate tra	ceable	to national/internatior	al stand	ards					
Acce	essories (Refer individua	al datas	sheet for complete s	necifica	tions)					

<sup>\*\*\*</sup>Material test certificates will be provided for wetted parts only with chemical composition testing. For others, please consult factory.

Note : In 2 SPDT Instruments, there may be an error of  $\max \pm 2\%$  F. S. between Micro Switches at the set point. Use common note as per other data sheets like specification and dimensions given in this product catalogue