



# PF261 PRESSURE SWITCHES

These pressure switches are designed for use in environments where explosive gases and dust can be present, such as oil rigs and chemical plants, and have been certified for CAT 1 EExia IIC and CAT2 EExd IIB + H<sub>2</sub> T6.

Manufactured from high quality casting offering a robust construction with protection to IP66 for use within heavily polluted industrial and marine environments, a special feature of the instruments is the separation of flameproof and adjustment compartments allowing for safe on-site adjustment of the set-point with power on and the switch in use.



Feature	Standard	Option
<b>Casing</b>	316 stainless steel to IP66	Black anodised aluminium switchcase
<b>Calibration</b>	Adjustment scale	x
<b>Pressure Settings</b>	0.75 to 600 Bar	x
<b>Microswitch</b>	1 x SPNO/SPDT	Dual switches for simultaneous operation
<b>Electrical Connections</b>	Suitable for cable $\phi$ 0.5mm - 2.5mm <sup>2</sup>	x
<b>Electrical Conduit Entry</b>	M20 x 1.5 straight	x
<b>Operating temperature</b>	-10°C to +80°C	x
<b>Accuracy</b>	+/- 1% at 20°C	x
<b>Wetted parts</b>	316 stainless steel	Monel
<b>Process connection</b>	1/4" BSP.P female	1/4", 1/2" BSP.P or NPT female, 1/2" BSP.P or NPT male
<b>Diaphragm material</b>	Nitrile	Fluorocarbon, Fluorocarbon Bellofram
<b>Fixing</b>	Standard bracket	2" standpipe bracket
<b>ATEX Flameproof Cert.</b>	Industrial	CE Ex II2GD EEx IIB+H <sub>2</sub> T6
<b>ATEX I.S. Cert.</b>	Industrial	CE Ex III1G EExia IIC T6

The simple calibration adjustment against a scale plate permits users to either order units with a specific setting or stock a mid-range setting and then adjust to suit the application. The adjustment mechanism incorporates a friction device to ensure the set point will not change under vibration conditions.



This range is used widely on rotating machinery and in process applications and has been specified extensively for offshore applications. The "Bellofram" diaphragm option allows extremely low switching differential.

Adjustment Range	Max. Working Pressure	Switching Differential	Spring Code	Diaphragm Code
(Bar G)	PSI	(Bar G)	(Bar G)	
0.15 - 1.15	2 - 16	12	0.5 - 0.16	U 32
0.5 - 2.5	8 - 40	12	0.7 - 0.2	B 32
1 - 7	20 - 100	12	0.1 - 0.45	W 32
0.5 - 3	8 - 48	25	0.2 - 0.25	G 22
1 - 5	15 - 75	25	0.2 - 0.3	B 22
2 - 14	30 - 190	25	0.3 - 0.7	W 22
2 - 10	30 - 150	50	0.35 - 0.7	B 16
4 - 28	60 - 380	50	0.5 - 1.5	W 16
8 - 40	120 - 600	50	0.75 - 2.0	X 16

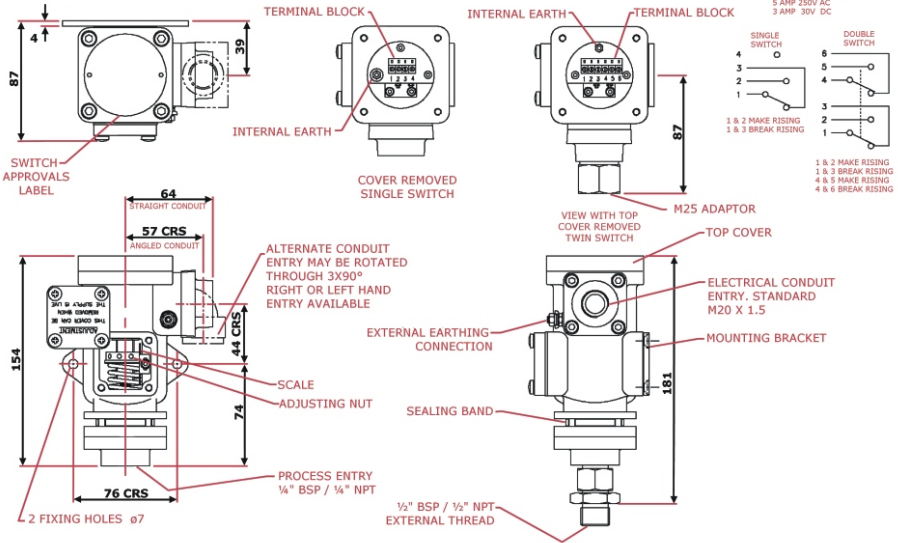
## LOW DIFFERENTIAL ADJUSTMENT RANGES

Range (Bar)	Max. Press. (Bar)	Differential (Bar)	Spring Code	Bellofram	Bottom Cover
0.15 - 0.75	25	<0.35	R	12P	32
0.35 - 1.75	25	<0.07	G	12P	32
0.35 - 3.35	25	<0.10	B	12P	32
0.75 - 8.75	25	<0.15	W	12P	32
3.0 - 15.0	35	<0.35	W	75P	22
7.5 - 27.5	40	<0.70	X	75P	22



# PF261 PRESSURE SWITCHES

DIMENSIONS IN MILLIMETRES



## ORDERING MATRIX

Locate the order code for your specification and enter it into the appropriate box. See the previous page for more information about each option.

### DIAPHRAGM MATERIAL

- 1: Nitrile
- 2: Fluorocarbon
- 7: Bellofram

### MICROSWITCHES

- 1: 1 x SPDT (open at set)
- 2: 2 x SPDT (closed at set)
- 3: 1 x SPDT (closed at set)
- 4: 2 x SPDT (open at set)

### PROCESS CONNECTION

- 1. 1/4" BSP.P Female
- 2. 1/4" NPT Female
- 5. 1/2" BSP.P Female
- 6. 1/2" NPT Female

### SPRING CODE

see range table over-leaf

### MOUNTING

- 1. Case-mounted
- 2. Stem-mounted

### SPECIFICATION

- A: Industrial
- B: ATEX EExd Certified
- O: ATEX EExia Certified

### FIXING

- 1. Standard bracket
- 2. 2" standpipe bracket

### DIAPHRAGM CODE / BOTTOM COVER

see range table over-leaf

### QUANTITY

### WETTED PARTS

- S: Stainless Steel
- M: Monel

### CASING

- A: Aluminium
- S: Stainless Steel

### BELLOFRAM CODE

see range table over-leaf

### MODEL NO

PF  
261

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Can be fitted with

DS

FS

Select the component you want to have connected to this pressure switch and write in the complete order number in the empty matrix above. Together with the pressure switch order number this completes the specifications for your instrument.