

MEDIUM PRESSURE

ANC4B 316 stainless steel or black anodised aluminium switchcase to IP66 standards.

Low deadband option.

Calibrated adjustment scale.

Settings from 0.1 to 40 Bar.

Single or dual microswitch option.

ATEX Flameproof Version

CE  II2GD EExd IIB + H₂T6 & T5

T6 Tamb -55 to +60°C

T6 Tamb -55 to +75°C

T5 Tamb -55 to +90°C

ATEX Intrinsically Safe Version

CE  II1GD EEx ia IIC

T6 Tamb -50 to +78°C

T5 Tamb -50 to +93°C

T4 Tamb -50 to +128°C

PF261 & PF262 TITAN ATEX EExd, EExia CERTIFIED & INDUSTRIAL PRESSURE SWITCH



This range has been used on rotating machinery and process applications worldwide and has been specified extensively for offshore applications. Diaphragm actuated for operating pressures up to 40 Bar with a Bellofram option offering extremely low switching differential. Resistors can be incorporated for 'end of line' and short circuit monitoring. For specification and introduction to the Titan switch range refer to pages 46 & 47.

ADJUSTMENT RANGE (BAR G)	ADJUSTMENT RANGE (PSI)	MAX WORKING PRESSURE (BAR G)	DEADBAND FIXED (BAR G)	SPRING CODE	DIAPHRAGM CODE	BOTTOM COVER
0.1 - 0.6	2 - 9	12	0.05 - 0.16	U	32B	32
0.5 - 2.5	8 - 40	12	0.07 - 0.20	B	32B	32
1 - 7	20 - 100	12	0.10 - 0.45	W	32B	32
0.5 - 3	8 - 48	25	0.20 - 0.25	G	22B	22
1 - 5	15 - 75	25	0.20 - 0.30	B	22B	22
2 - 14	30 - 190	25	0.30 - 0.70	W	22B	22
2 - 10	30 - 150	50	0.35 - 0.70	B	16B	16
4 - 28	60 - 380	50	0.50 - 1.50	W	16B	16
8 - 40	120 - 600	50	0.75 - 2.00	X	16B	16

LOW DEADBAND OPTION

RANGE (BAR)	MAX PRESS (BAR)	DEADBAND FIXED (BAR)	SPRING CODE	BELLOFRAM CODE	BOTTOM COVER
0.15 - 0.75	25	<0.035	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
3.00 - 15.0	35	<0.35	W	75P	22
7.5 - 27.5	40	<0.70	X	75P	22

PART NUMBER BREAKDOWN

B = ATEX EEcd CERTIFIED O = ATEX EEExia CERTIFIED A = INDUSTRIAL		DIAPHRAGM MATERIAL 1 = NITRILE 2 = VITON 7 = VITON BELLOFRAM		WETTED PARTS S = 316 STAINLESS STEEL M = MONEL 400L	
A = ALUMINIUM CASE S = ST. STEEL CASE		SPRING CODE (SEE RANGE SHEET)		A = STANDARD BRACKET E = 2" STANDPIPE BRACKET X = COVER PLATE (MODEL PF262) M = P280 SERIES REPLACEMENT	
1 = CASE MOUNTED 2 = STEM MOUNTED		DIAPHRAGM OR BELLOFRAM CODE (SEE RANGE SHEET)			
1 = 1 x SPDT SWITCH 2 = 2 x SPDT SWITCH DUAL SWITCHES ARE MECHANICALLY LINKED TO PROVIDE DPDT SWITCHING ACTION		PROCESS CONNECTIONS PF261 - (FEMALE) 10F = STANDARD (F) PF262 _ MALE 22F = 1/2" BSP.P (M) 24F = 1/2" NPT (M)		BOTTOM COVER CODE (SEE TABLE ON PAGE 48)	1 = 1/4" BSP.P FEMALE 2 = 1/4" NPT FEMALE 5 = 1/2" BSP.P FEMALE 6 = 1/2" NPT FEMALE FOR PF262 USE = 1
ELECTRICAL ENTRY A = M20 STRAIGHT B = M20 ANGLED C = 1/2" NPT STR. F = M25 STRAIGHT					

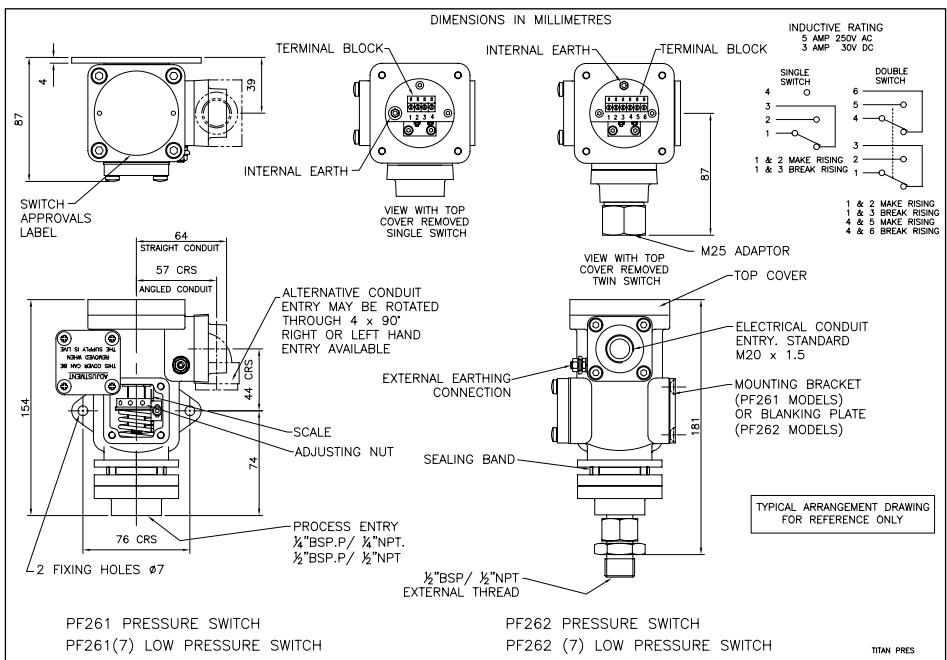
SPECIFICATION

Wetted parts : 316 St. steel or Monel

Process connections : 1/4" or 1/2" BSP.P or NPT female (bottom)

Diaphragm : Nitrile or Viton

1/2" BSP.P or NPT male (bottom)



TITAN (XPB) ATEX EExd, EExia INDUSTRIAL SWITCHES

INTRODUCTION

The Titan **pressure, differential pressure, temperature, level and flow** switches are designed for use in environments where explosive gases and dust can be present (e.g. Gas fields, oil rigs and chemical plants etc.) and have been ATEX certified for CAT 1 EExia IIC T6, T5 & T4 and CAT 2 EExd IIB +H₂ T & T5.

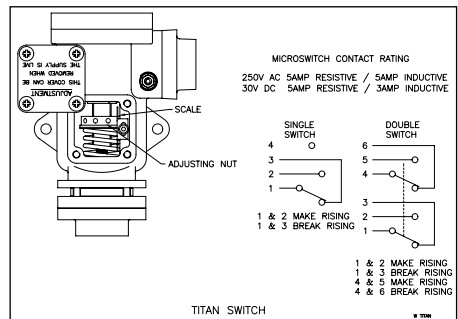
Please note, our EExd switches are available with three maximum ambient temperature options, T6 + 60°C which is standard, T6 + 75°C & T5 + 90°C. Cable selected by customer upon installation should be suitable for ambient temperature, label for + 75°C states cable suitable for 85°C must be used and + 90°C states a 100°C requirement for cable.

These switches are manufactured from a high quality casting which offers robust construction and protection to IP66 for use within heavily polluted industrial and marine environments. A special feature of the instruments is the separation of the flameproof and adjustment compartments allowing for safe on-site adjustment of the set point with power on and the switch in operation.

The Titan range has been certified for mounting against a flush wall or bulkhead via the fitted bracket, therefore the flamepath minimum distances specified in BS EN60079-14:1997 are not applicable.

CALIBRATION

The design features a simple form of calibration adjustment against a scale plate. This allows users to either order units with a specific setting, or stock a mid range setting and then adjust to suit the application. This can be set safely with the switch supply live. On removal of the adjustment cover the adjusting nut can be turned with a small Tommy bar or Allen key. The setting is read from the centre of the red pointer ring against the calibrated scale plate. Rotation to the left will increase the set point and to the right decrease the set point. The adjustment mechanism incorporates a friction device to ensure set point will not change under vibration conditions.



TECHNICAL SPECIFICATION

Switchcase and covers : ANC4B 316 stainless steel or black anodised aluminium switchcase.

Microswitch : 1 x SPCO/SPDT or 2 x SPCO/SPDT mechanically linked to provide DPDT switching action, reset of switches could be up to 3% apart, dual microswitches may increase deadband by a factor of two.

Contact material : Gold plated silver contacts.

Microswitch rating :

5 Amps @ 250 VAC resistive and inductive.

5 Amps @ 30VDC resistive, 3 Amps @ 30 VDC inductive.

Electrical connections : Terminals suitable for cable 0.5 - 2.5 mm².

Electrical Conduit Entry : M20 x 1.5 or 1/2" NPT.

Environmental Protection : Switches have been tested and certified by an external test house to IP66 in accordance with BS EN 60529 : 1992.

Vibration and shock parameters : Switches were subjected to Ministry of Defence Type Approval System Test Vibration DGS 350 Paras 0602 & 0603. Shock – BR3021.

Temperature Limitations : Pressure, Vacuum and Differential Pressure

Ambient : -50 to +85°C (standard) -50°C to 125°C (special)

Process : Diaphragm actuated -50 to +90°C (Nitrile) or -20 to +150°C (Viton).

Piston actuated -40 to 120°C (Nitrile) or -20 to +150°C (Viton).

Storage : -60 to +80°C

(for temperature, level and flow switches please refer to specific pages).

Certification : All switches are CE certified and marked in accordance with the following EU directives

Industrial : 73/23/EEC Low Voltage Directive

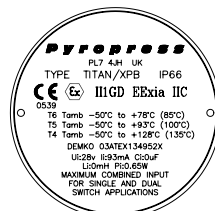
EEExia : 94/9/EC ATEX coded CE II 1GD EEExia IIC for CAT 1 (Zone 0) areas

EEExd : 94/9/EC ATEX coded CE II 2GD EEExd IIB + H₂ for CAT 2 (Zone 1) areas

Accuracy : +/-1% at 20°C, setting accuracy : 2%.



XPB XPB/R T6



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