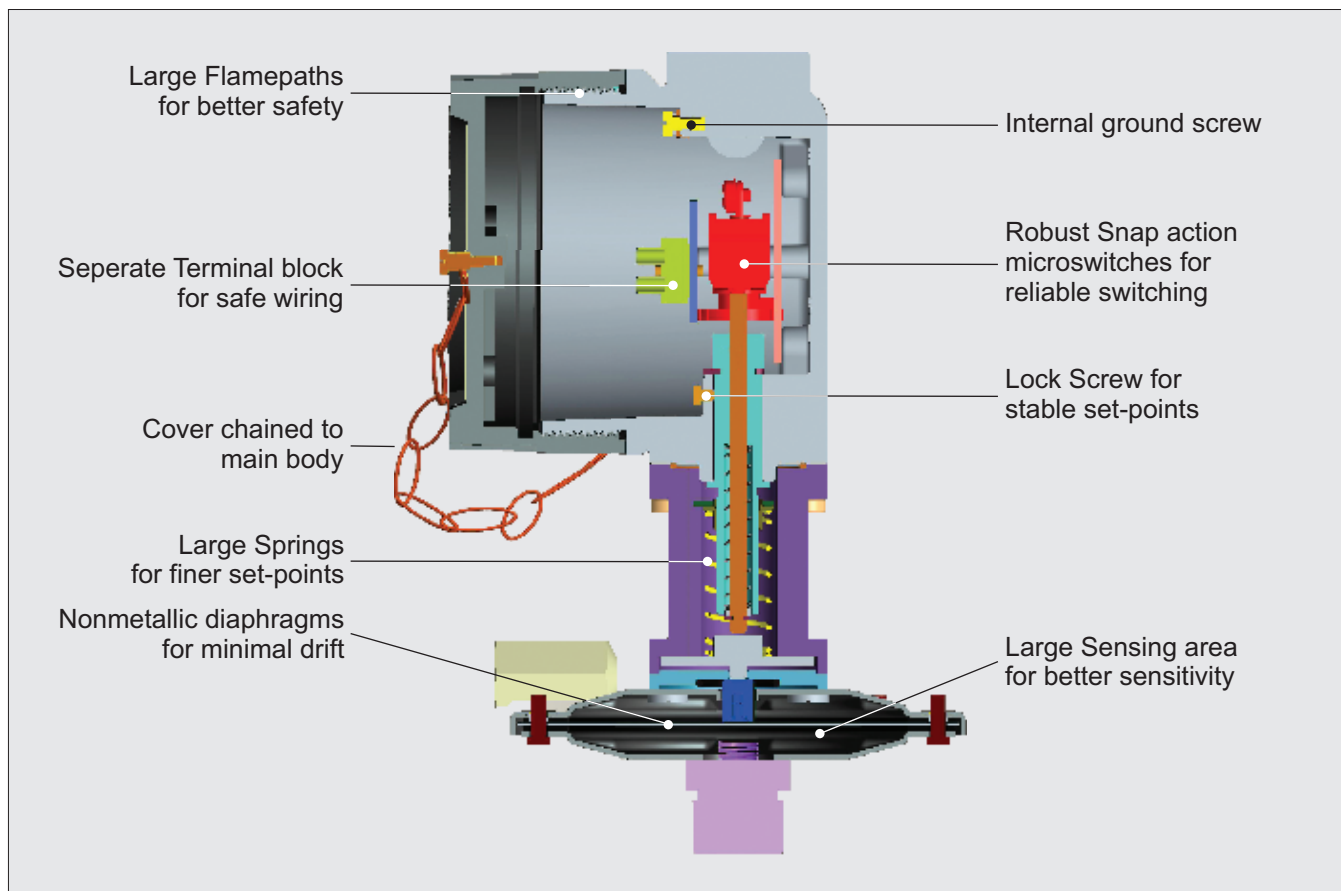


FC LOW RANGE PRESSURE DIFFERENCE SWITCHES



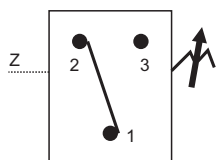
Approximate Weight :

Pressure difference switches with Aluminium enclosure : 2.25 Kg.

Pressure difference switches with Grey CI enclosure : 4.65 Kg.

Pressure difference switches with SS enclosure : 4.95 Kg.

Electrical Connection :

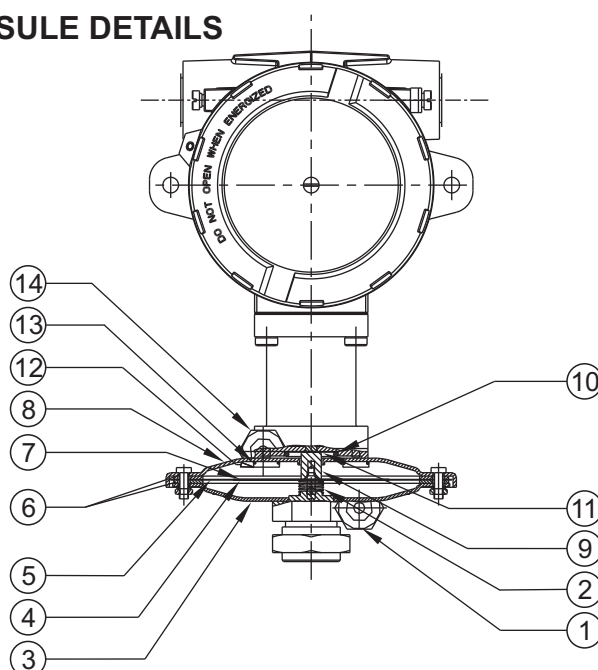


Some Applications :

Used in ventilation systems, clean rooms, clogged filters, etc.



PRESSURE CAPSULE DETAILS



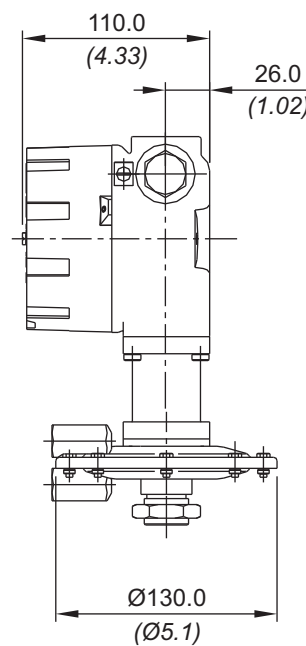
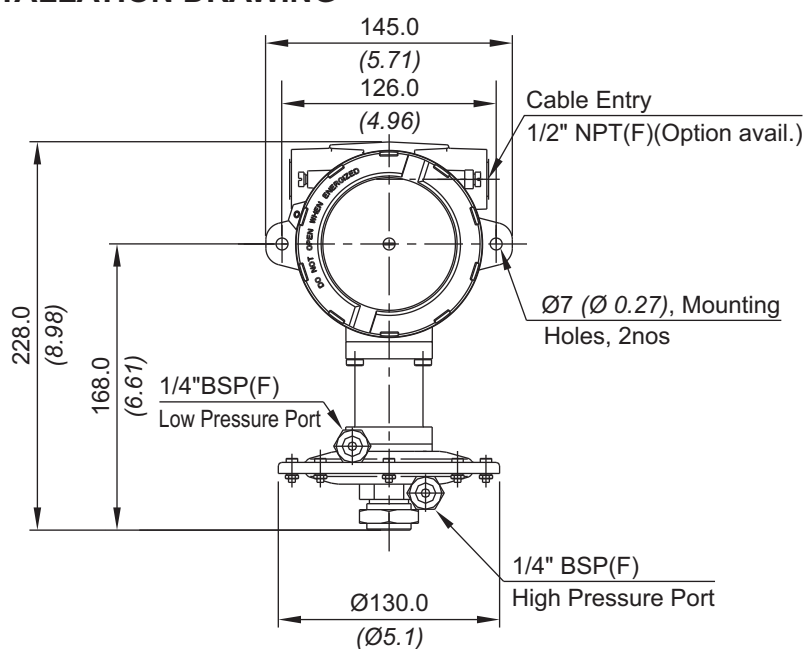
No. Description

1. High pressure port (S.S.)*
2. Support spring (S.S.)
3. Bottom flange (S.S.)
4. Support plate (Aluminium)
5. Diaphragm (Neoprene)
6. Gasket (Nitrile)
7. Top plate (Aluminium)
8. Top flange (M.S.)*
9. Transfer pin (Aluminium)
10. 'O' ring (Nitrile)
11. Sealing diaphragm (Nitrile)
12. Top flange screw (M.S.)
13. Sealing 'O' ring (Nitrile)
14. Low pressure port (M.S.)*

* Pressure ports are brazed with flange

Note : wetted parts are mentioned in italics.

INSTALLATION DRAWING



APPROX. DIMENSIONS IN $\frac{\text{mm}}{\text{inches}}$

FC LOW RANGE PRESSURE DIFFERENCE SWITCHES

RANGE SELECTION TABLE

Range Code	Range mbar ("wc)	Differential* mbar (" wc)	Maximum Working Pressure bar (psi)
		Approximate Maximum for "A1" microswitch	
L02	1.5 - 15 (0.60 - 6.02)	3 (1.204)	2 (29.00)
L03	5 - 25 (2.007 - 10.037)	5 (2.007)	2 (29.00)
L05	10 - 50 (4.015 - 20.073)	5 (2.007)	2 (29.00)
L10	10 - 100 (4.015 - 40.15)	5 (2.007)	2 (29.00)
L15	10 - 150 (4.015 - 60.22)	5 (2.007)	2 (29.00)
L25	20 - 250 (8.029 - 100.365)	10 (4.015)	2 (29.00)
L35	50 - 350 (20.073 - 140.51)	35 (14.05)	2 (29.00)

*Minimum differential increases with setpoint, values with neoprene diaphragm (Graphs available on request)

* Differentials of microswitches A2 through A9 will vary. Differentials for A7 are typically twice that for A1 microswitch. Please indicate specifically the differential value in enquiry/order, when it is critical in your application.

HOW TO ORDER FLAMEPROOF LOW RANGE PRESSURE DIFFERENCE SWITCHES

Group 1	Group 2	Group 3	Group 4	Group 5	Group 6	Group 7	Group 8
Non standard allocation	Gas Group Classification	Cable Entry Size	Switch Type	Range Code (values in mbar)	Microswitch Type	Pressure Port Material / Size	Diaphragm
☐ Reserved for non-standard options not covered in catalogue. Will be given by manufacturer, only after agreement of supply details with customer.	FC = Flameproof pressure switch, ATEX & IECEx approved, with Aluminium head as per IS/IEC 60079-1 for Gas Gr. IIC	1 = Al. head 1/2" NPT threads 2 = Al. head 3/4" NPT threads 3 = Al. head M20 x 1.5 threads 4 = Grey CI head 1/2" NPT threads 5 = Grey CI head 3/4" NPT threads 6 = Grey CI head M20 x 1.5 threads 7 = SS head 1/2" NPT threads 8 = SS head 3/4" NPT threads 9 = SS head M20 x 1.5 threads	D1 = pressure difference switch, fixed differential without scale D2 = pressure difference switch, fixed differential with scale in mbar D3 = pressure difference switch, fixed differential with scale in "wc	L02 = (1.5 - 15) L03 = (5 - 25) L05 = (10 - 50) L10 = (10 - 100) L15 = (10 - 150) L25 = (20 - 250) L35 = (50 - 350)	A1 = General purpose microswitch rated at 15 A; 250 VAC A2 = Hermetically sealed for corrosive environments A3 = gold plated contacts for low voltage applications A4 = DPDT configuration A5 = for high DC ratings A6 = elements with adjustable deadband A7 = 2SPDT switching elements A9 = General purpose microswitch rated at 5 A; 250 VAC * Some microswitches may not be available for particular ranges. Please check with sales office. Please refer page no. 230 for more microswitch options	S1 = SS316 / 1/4" BSP(F) S2 = SS316 / 1/4" NPT(F) Please refer page no. 226 & 227 for more pressure port options	0 = Neoprene 1 = Teflon For additional wetted parts please refer Pressure Capsule Details on Page 59

eg. A flameproof switch for gas group IIC, with 1/2" NPT cable entry in aluminium housing as 1SPDT pressure switch, having 0.1 bar to 1 bar pressure range, with 15Amp. microswitch, SS316 pressure housing with 1/4" BSP port size & neoprene diaphragm shall be specified by

Group 1	Group 2	Group 3	Group 4	Group 5	Group 6	Group 7	Group 8
☐	FC	1	D1	L03	A1	S1	0

Please specify full model number to avoid ambiguity. If only the first two groups are specified while ordering, uncalibrated switches with standard wetted parts and enclosures will be supplied.

LOW RANGE PRESSURE DIFFERENCE SWITCHES

FC