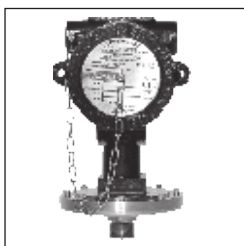


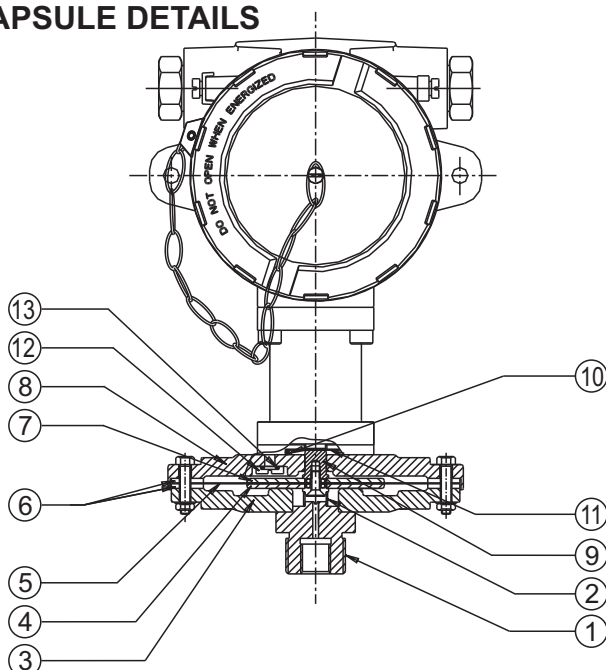
FC/FE ULTRA LOW RANGE PRESSURE SWITCHES



FC



PRESSURE CAPSULE DETAILS



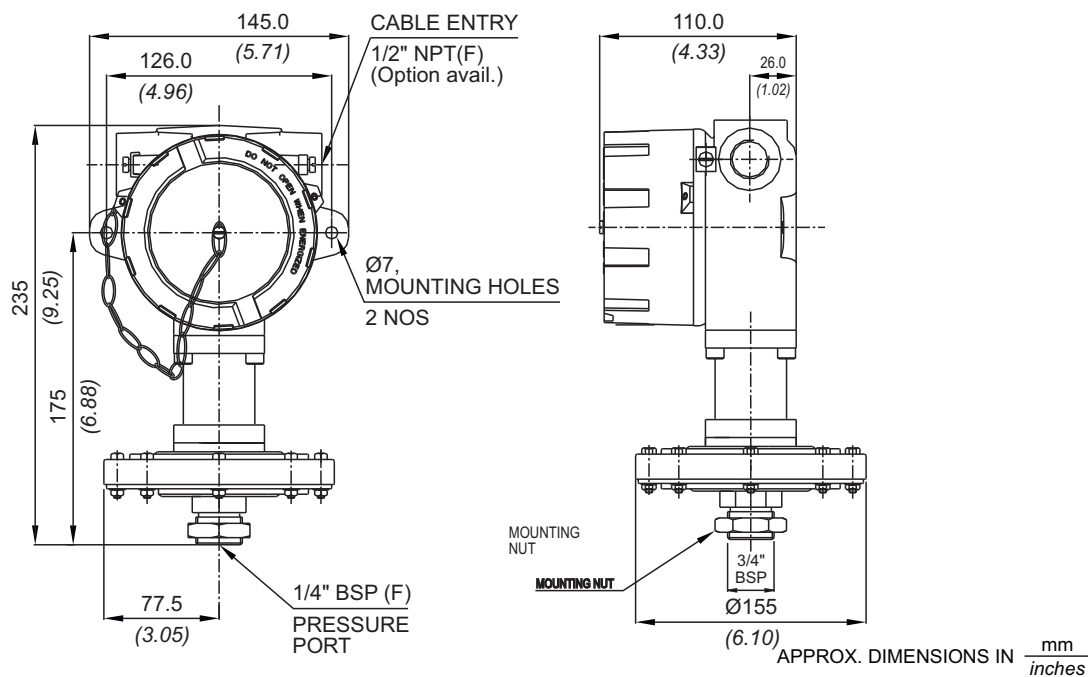
No. Description

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

*Pressure ports are welded with flange

Note : wetted parts are mentioned in italics.

INSTALLATION DRAWING



FC/FE **ULTRA LOW RANGE PRESSURE SWITCHES**

RANGE SELECTION TABLE

Range Code	Range mbar ("Wc) (Falling set point)	Differential* mbar ("Wc)	Maximum Working Pressure bar (psi)
		Approximate Maximum for "A1" microswitch	
U15	0.4 to 1.5 (0.16 to 0.603)	0.40 (0.16)	0.5 (7.25)
U25	0.5 to 2.5 (0.20 to 1.100)	0.60 (0.24)	0.5 (7.25)
U40	1.0 to 4.0 (0.40 to 1.067)	0.80 (0.32)	0.5 (7.25)

Note:

1. The minimum differential increases with the setpoint. The differential values mentioned in the above table are approximate maximum for FSR. The differential value will vary according to the pressure range selected and microswitch type. For actual values of differential please contact sales office.

2. When using 2SPDT switching arrangement, both microswitches may not actuate and/or deactuate at the same point. A small stage gap, normally upto +/- 5% FSR (depending on range code) may be observed. The On-Off differential (hysteresis) typically tends to be atleast double of those published for 1SPDT pressure switches.

If actuation and/or deactuation at same point is critical part of operation, then it can be achieved by using a separate DPDT relay. This relay will need a separate power supply for it's coil.

HOW TO ORDER FLAMEPROOF ULTRA LOW RANGE PRESSURE SWITCHES

Group 1	Group 2	Group 3	Group 4	Group 5	Group 6	Group 7	Group 8
Non standard allocation	Model	Cable Entry Size	Switch Type	Range Code (values in mbar)	Microswitch Type	Pressure Port Material / Size	Diaphragm
☐ A prefix "N" is used in the model code in case of any non standard options / accessories that are provided with the switches. Will be given by manufacturer, only after agreement of supply details with customer. The prefix is subject to change as per specific requirement.	FC = IP66 Flameproof pressure switch, ATEX, IECEx & PESO approved FE = IP66 Flameproof pressure switch, PESO approved	1 = Al. head 1/2" NPT threads 2 = Al. head 3/4" NPT threads 3 = Al. head M20 x 1.5 threads *4 = Grey Cl head 1/2" NPT threads *5 = Grey Cl head 3/4" NPT threads *6 = Grey Cl 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	P1 = pressure switch, fixed differential without scale P2 = pressure switch, fixed differential with scale in mbar P3 = pressure switch, fixed differential with scale in "Vwc	U15 = (0.4 - 1.5) U25 = (0.5 - 2.5) U40 = (1.0 - 4.0)	A1 = General purpose microswitch rated at 15 A; 250 VAC *A6 = elements with adjustable deadband *A7 = 2SPDT switching elements A8 = General purpose microswitch rated at 5 A; 250 VAC; 5 A, 28 VDC *B7 = 2SPDT Switching Elements C6 = 1SPDT Adjustable Differential Please refer to page nos. 120 & 121 for options and specifications of microswitches * Please contact sales office for additional information	S1 = SS316 / 1/4" BSP(F) S2 = SS316 / 1/4" NPT(F)	0 = Neoprene 1 = PTFE
	Approx. switch weight in Kgs						More options available, please contact sales office
Enclosure	FC	FE					
Aluminium	3.920	3.420					
Grey Cl	6.310	5.810					
SS	6.420	5.920					

eg. Flameproof switch for gas group, with 1/2" NPT cable entry in aluminium housing as 1SPDT pressure switch, fixed differential without scale, having 0.16 to 0.60 "Vc 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	P1	U15	A1	S1	0

Please specify full model number to avoid ambiguity.

ULTRA LOW RANGE PRESSURE SWITCHES

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