

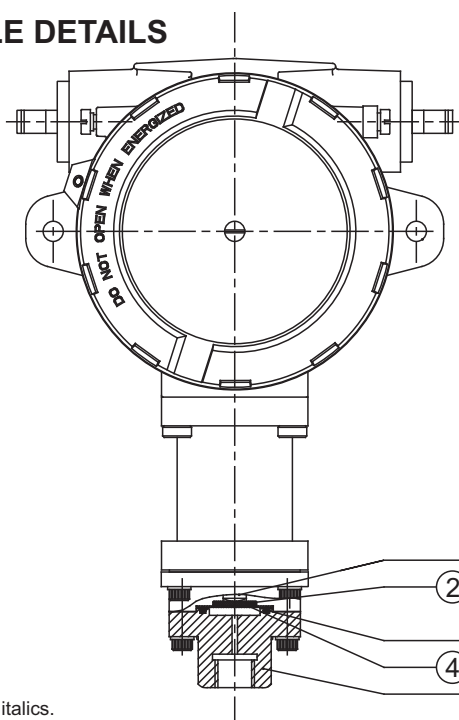
HYDRAULIC DIAPHRAGM AIR RELAY SWITCHES **FC**



FC



PRESSURE CAPSULE DETAILS

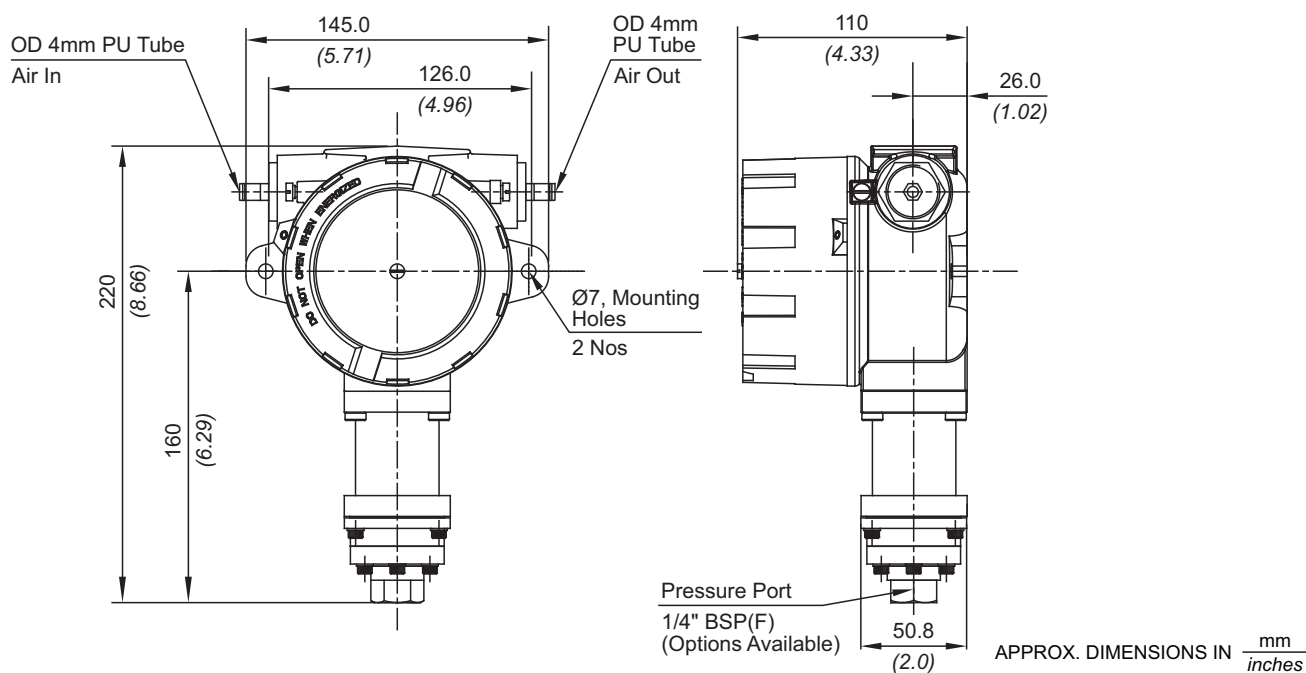


No. Description

1. Transfer PIN (SS)
2. Cushining Pad
3. O-ring (PTFE®)
4. Diaphragm (PTFE®)
5. Pressure Housing (SS316)

Note : *wetted parts* are mentioned in italics.

INSTALLATION DRAWING



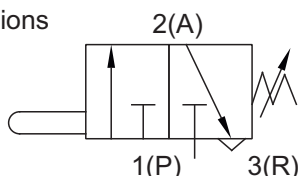
FC HYDRAULIC DIAPHRAGM AIR RELAY SWITCHES

RANGE SELECTION TABLE

Range Code	Range bar (psi)	Differential* bar (psi)	Maximum Working Pressure bar (psi)
		Approximate Maximum for P1 / P2 (Refer Group 6 of How to order table)	
H1T	0.5 - 10 (7.25 - 145.04)	1 (14.50)	150 (2175.51)
H2T	2 - 20 (29.00 - 290.07)	2 (29.00)	200 (2900.76)
H4T	5 - 40 (72.52 - 580.15)	5 (72.52)	200 (2900.76)
H1H	10 - 100 (146.04 - 1450.38)	12 (174.05)	200 (2900.76)
H2H	7 - 200 (101.52 - 2900.76)	24 (348.09)	400 (5801.52)
H4H	40 - 400 (580.15 - 5801.52)	50 (725)	500 (7251.88)
H7H	70 - 700 (1015.26 - 10152.64)	60 (870)	800 (11603)
H1K	100 - 1000 (1450.37 - 14503.77)	70 (1015.26)	1100 (15954.15)

Pneumatic valve specifications

NO = Normally Open
or
NC = Normally Closed



CAUTION : Supply pressure of air/inert gas = min. 2 and max. 7 bar

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.

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 HIGH RANGE AIR RELAY SWITCHES

Group 1	Group 2	Group 3	Group 4	Group 5	Group 6	Group 7	Group 8
Non standard allocation	Model	Air Inlet/Outlet Ports	Switch Type	Range Code (values in bar)	Valve 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 = Air Relay switch Note: Flameproof certification not applicable for Air Relay Switch	A1 = Al. head PU tube 4mm OD *A4 = Grey CI PU tube 4mm OD A7 = SS head PU tube 4mm OD	P1 = pressure switch, fixed differential without scale	H1T = (0.5 - 10) H2T = (2 - 20) H4T = (5 - 40) H1H = (10 - 100) H2H = (7 - 200) H4H = (40 - 400) H7H = (70 - 700) H1K = (100 - 1000)	P1 = NC valve P2 = NO valve	S1 = SS316 / 1/4" BSP(F) S2 = SS316 / 1/4" NPT(F)	1 = PTFE 2 = SS 316L 3 = Hastelloy C 4 = Monel 5 = Titanium 6 = Tantalum 7 = Inconel
Approx. switch weight in Kgs		*Not available in FE models					
Enclosure	FC						
Aluminium	2.220						
Grey CI	4.720						
SS	4.810						
		More options available, please contact sales office					

eg. Flameproof air relay switch in aluminium housing with PU tube 4mm OD, fixed differential without scale, having 0.5 bar to 10 bar pressure range, with NC valve, 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	A1	P1	H01	P1	S1	1

Please specify full model number to avoid ambiguity.

HYDRAULIC DIAPHRAGM AIR RELAY SWITCHES

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