

Orion INSTRUMENTS FC Series High Range Air Relay Switches Instruction Manual

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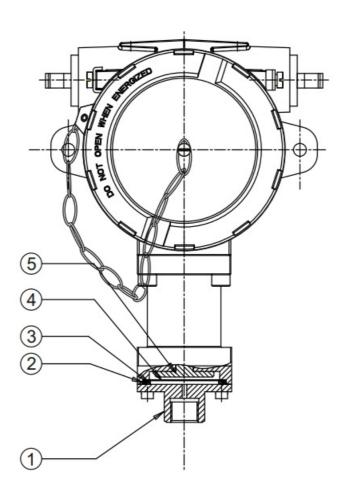
HIGH RANGE AIR RELAY SWITCHES FC



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PRESSURE CAPSULE DETAILS

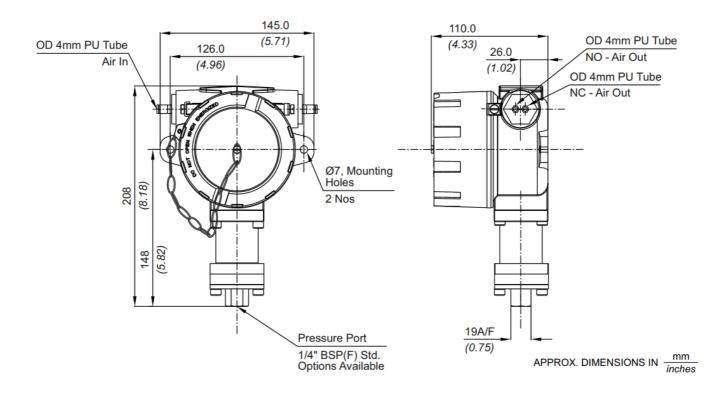


No. Description

- 1. Pressure Port
- 2. PTFE O-Ring
- 3. Back Up Ring
- 4. Diaphragm
- 5. Conical Plunger

Note: wetted parts are mentioned in italics.

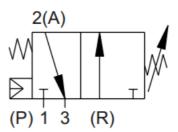
INSTALLATION DRAWING



RANGE SELECTION TABLE

		Differential* bar (psi)		
Range Code	Range bar <i>(psi)</i>	Approximate Maximum for P1 / P2 (Refer Group 6 of How t o order table)	Maximum Working Pres sure bar <i>(psi)</i>	
LP	0.067 to 0.213	0.02	5.0	
	(0.97 to 3.09)	(0.29)	(72.52)	
LP5	0.1 to 0.5	0.08	5.0	
	(1.45 to 7.25)	(1.16)	(72.52)	
H01	0.1 to 1.0	0.10	12.0	
	(1.45 to 14.50)	(1.45)	(174.05)	
H02	0.1 to 1.5	0.3	12.0	
	(1.45 to 21.76)	(4.35)	(174.05)	
H03	0.2 to 2.6	0.4	12.0	
	(2.90 to 37.71)	(5.80)	(174.05)	
H04	0.2 to 3.6	0.5	12.0	
	(2.90 to 52.21)	(7.25)	(174.05)	
H07	0.5 to 7.0	0.6	12.0	
	(7.25 to 101.53)	(8.70)	(174.05)	
H10	0.5 to 10.0	1.0	25.0	
	(7.25 to 145.037)	(14.50)	(362.6)	
H15	1.0 to 15.0	1.5	25.0	
	(14.50 to 217.56)	(21.75)	(362.6)	
H30	5.0 to 25.0	2.0	35.0	
	(72.52 to 362.60)	(29.00)	(507.63)	

Pneumatic valve specifications NO = Normally Open NC = Normally Closed C = Common





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
Reserved for non-standard options not covered in catalogue. Will be given by manufacturer, only after agreement of supply details with customer.	FC = Air Relay switch Note: Flameproof certification not applicable for Air Relay Switch	A1 = AI. head PU tube 4mm OD *A4 = Grey CI PU tube 4mm OD A7 = SS head PU tube 4mm OD A** *Not available in FF models	P1 = pressure switch, fixed differential without scale	LP = (0.067 - 0.213) LP5 = (0.1 - 0.5) H01 = (0.1 - 1.0) H02 (0.1 - 1.5) H03 = (0.2 - 2.6) H04 = (0.2 - 3.6) H07 = (0.5 - 7.0) H10 = (0.5 - 10.0) H15 = (1.0 - 15.0) H30 = (5.0 - 25.0)	P1= NC valve P2 = NO valve	S1 = SS316 / ¼" BSP(F) S2 = SS316 / ¼" NPT(F) Please refer Page No. 118 for Pressure Port options	1 = PTFE 2 = SS 316L 3 = Hastelloy C 4 = Monel 5 = Titanium 6 = Tantalum 7 = Inconel
		* Not available in FE models					

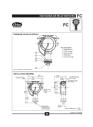
eg. Flameproof air relay switch in aluminium housing with PU tube 4mm OD, fixed differential without scale, having 0.5 bar to 10 bar pressure range, with NC valve, SS316 pressure housing with 1/4" BSP port size & neoprene diaphragm shall be specified by

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.

Bulletin No. KA220407

Documents / Resources



Orion INSTRUMENTS FC Series High Range Air Relay Switches [pdf] Instruction Manual LP, FC Series High Range Air Relay Switches, High Range Air Relay Switches, Range Air Relay Switches, Air Relay Switches, Relay Switches, LP5, H01, H02, H03, H04, H07, H10, H15, H30

References

User Manual

Manuals+, Privacy Policy

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