

MD/MT

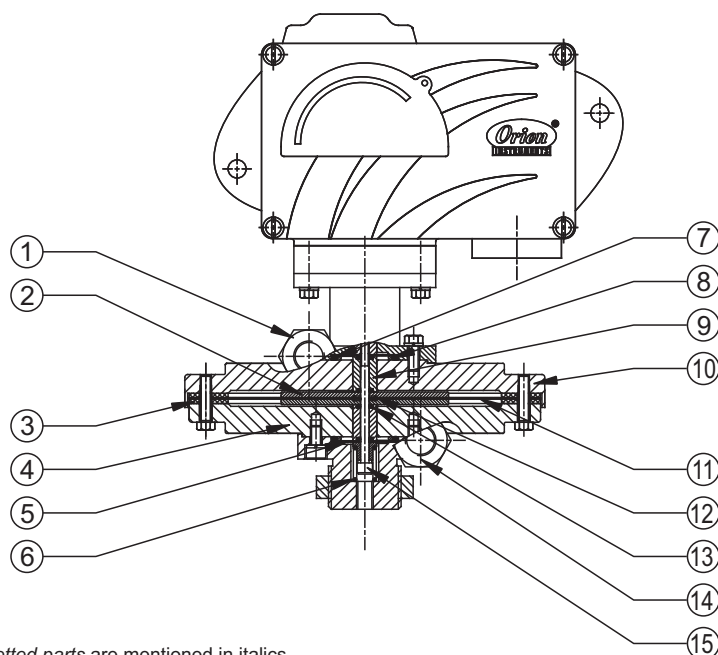
LOW DP HIGH PROOF PRESSURE DIFFERENCE SWITCHES



MD



PRESSURE CAPSULE DETAILS



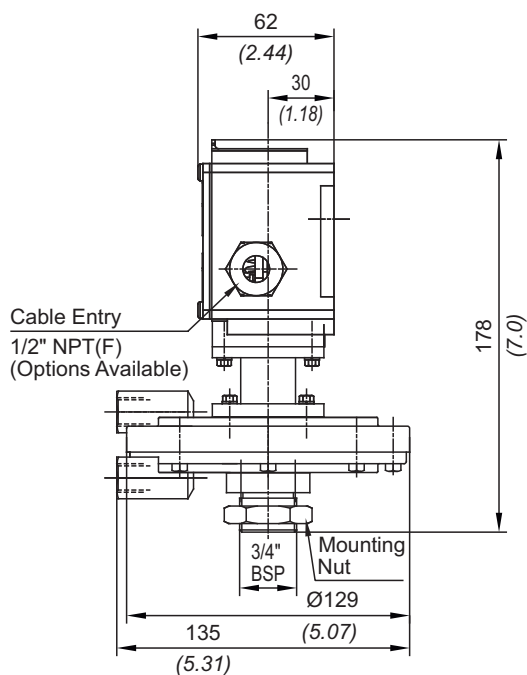
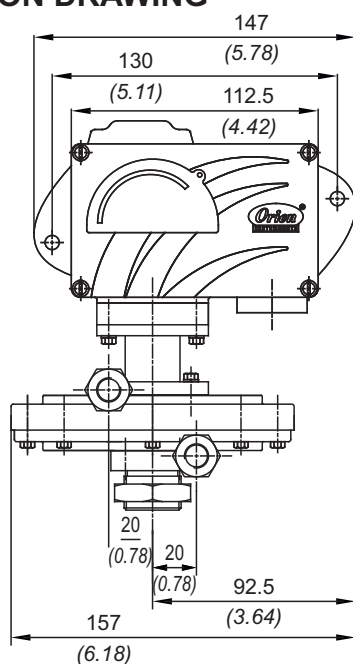
No. Description

1. Low Pressure Port (SS)*
2. Support Plate (SS)
3. Gasket (PTFE®)
4. Bottom Flange (SS)
5. Sealing Diaphragm (Neoprene)
6. Support Spring (SS)
7. Sealing Ring (PTFE®)
8. Support Ring (SS)
9. Transfer Pin (SS)
10. Top Flange (SS)
11. Diaphragm (Neoprene)
12. O-Ring (Viton)
13. O-Ring (Viton)
14. High Pressure Port (SS)*
15. Clamping Screw (CS)

Note : wetted parts are mentioned in italics.

*Pressure ports are brazed with flange

INSTALLATION DRAWING



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

MD/MT LOW DP HIGH PROOF PRESSURE DIFFERENCE SWITCHES

RANGE SELECTION TABLE

Range Code	Range mbar ("wc)	Differential* mbar (" wc)	Maximum Working Pressure bar (psi)
		Approximate Maximum for "A1" microswitch	
N02	1.5 - 15 (0.602 - 6.02)	3 (1.204)	20 (290.076)
N03	5 - 25 (2.007 - 10.037)	5 (2.007)	20 (290.076)
N05	10 - 50 (4.015 - 20.073)	5 (2.007)	20 (290.076)
N10	10 - 100 (4.015 - 40.146)	10 (4.015)	20 (290.076)
N15	10 - 150 (4.015 - 60.22)	10 (4.015)	20 (290.076)
N25	20 - 250 (8.03 - 100.36)	15 (4.015)	20 (290.076)
N35	50 - 350 (20.073 - 140.51)	35 (14.05)	20 (290.076)

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 INDUSTRIAL LOW DP HIGH PROOF PRESSURE DIFFERENCE SWITCHES

LOW DP HIGH PROOF PRESSURE DIFFERENCE SWITCHES

MD/MT

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.	MD = Industrial pressure switch with IP66 rated enclosure as per IS/IEC 60529 MT = Industrial pressure switch with IP66 rated enclosure as per IS/IEC 60529	1 = Al. enclosure 1/2" NPT threads *2 = Al. enclosure 3/4" NPT threads 3 = Al. enclosure M20 X 1.5 threads 7 = SS enclosure, 1/2" NPT threads *8 = SS enclosure, 3/4" NPT threads 9 = SS enclosure, M20 X 1.5 threads	DF1 = pressure difference switch, fixed differential without scale DF2 = pressure difference switch, fixed differential with scale in mbar DF3 = pressure difference switch, fixed differential with scale in "Wc" *DA1 = pressure difference switch, adjustable differential without scale *DA2 = pressure difference switch, adjustable differential with scale in mbar *DA3 = pressure difference switch, adjustable differential with scale in "Wc"	N02 = (1.5 - 15) N03 = (5 - 25) N05 = (10 - 50) N10 = (10 - 100) N15 = (10 - 150) N25 = (20 - 250) N35 = (50 - 350)	A1 = General purpose microswitch, rated at 15 A; 250 VAC *A6 = Adjustable deadband *A7 = 2SPDT switching elements *A8 = General purpose microswitch *A9 = General purpose microswitch *B7 = 2SPDT Switching Elements *B9 = 2SPDT Switching Elements for adjustable differential	S1 = SS316 / 1/4" BSP(F) S2 = SS316 / 1/4" NPT(F)	0 = Neoprene 1 = PTFE
	Approx. switch weight in Kgs						
Enclosure	MD	MT					
Aluminium	4.080	4.460					
SS	5.590	6.050					
			* Please refer to page nos. 290 & 291 for options and specifications of microswitches				
			Please contact sales office for additional information				
			More options available, please contact sales office				
			*Available with A6, A7, A9 model For dual cable entry contact Sales Office				

eg. A low DP high proof pressure difference switch, with 1/2" NPT cable entry in aluminium housing as 1SPDT pressure switch, fixed differential without scale, having 5 mbar to 25 mbar pressure range, with 15Amp. microswitch, SS316 pressure housing with 1/4" BSP port size & neoprene diaphragm shall be specified by

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☐	MD	1	DF1	N03	A1	S1	0

Please specify full model number to avoid ambiguity.