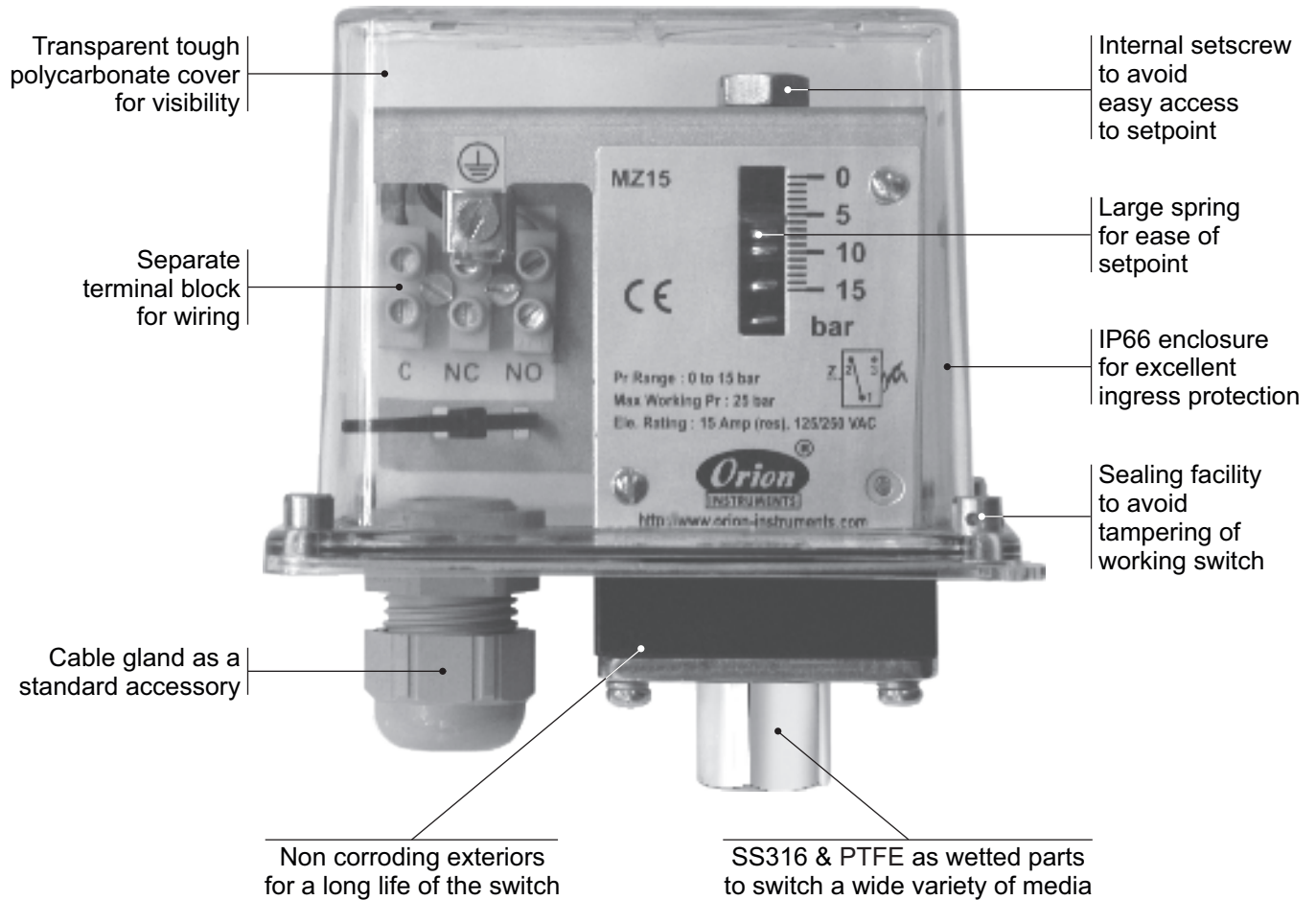




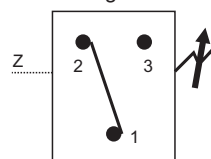
Approximate Weight : 0.550 Kg.

Some Applications :

Used in humid or slightly corrosive atmosphere like jet dyeing machines, etc.

Electrical Connection :

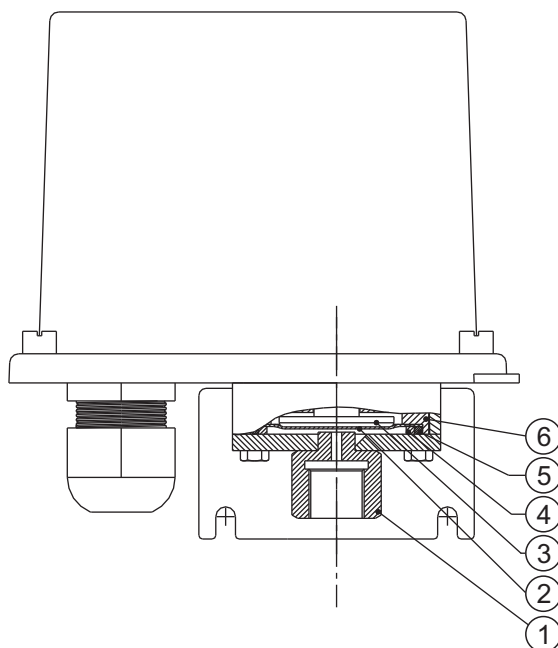
Fig. 2



HIGH RANGE PRESSURE SWITCHES MZ



PRESSURE CAPSULE DETAILS



No. Description

1. *Pressure Housing (SS316)*
2. *Diaphragm (PTFE®)*
3. Plunger
4. *Steel Ring (SS316)*
5. *O-Ring (PTFE®)*
6. Disc

Note : *wetted parts* are mentioned in italics.

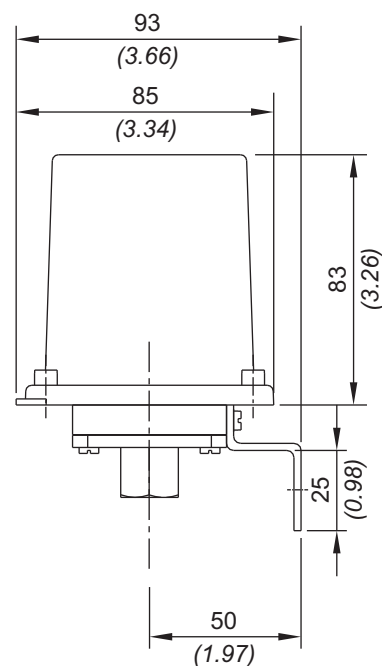
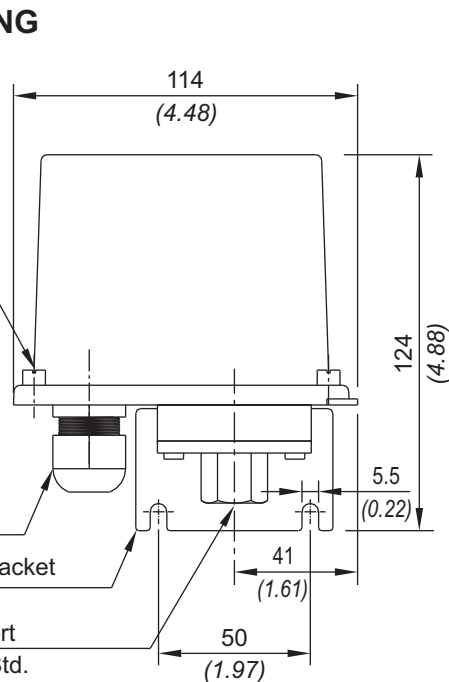
INSTALLATION DRAWING

Cover Locking Screw
4 Nos.

Cable Entry

Mounting Bracket

Pressure Port
1/4" BSPF Std.
(Options Avail.)



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

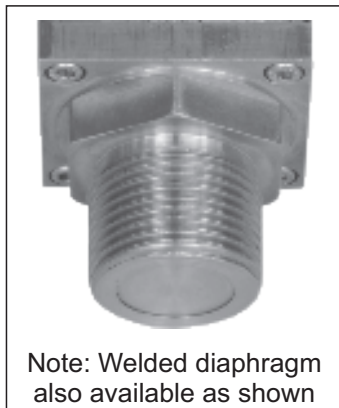
MZ HIGH RANGE PRESSURE SWITCHES

RANGE SELECTION TABLE

Range Code	Range bar (psi)	Differential* bar (psi)	Maximum Working Pressure bar (psi)
		Approximate Maximum for "A8" microswitch	
LP [†]	0.067 - 0.213 (0.97 - 3.09)	0.05 (0.72)	5 (72.52)
LP5	0.1 - 0.5 (1.45 - 7.25)	0.10 (1.45)	5 (72.52)
H01	0.1 - 1.0 (1.45 - 14.50)	0.10 (1.45)	12 (174.05)
H02	0.1 - 1.5 (1.45 - 21.76)	0.20 (2.90)	12 (174.05)
H03	0.2 - 2.6 (2.90 - 37.71)	0.20 (2.90)	12 (174.05)
H04	0.2 - 3.6 (2.90 - 52.21)	0.30 (4.35)	12 (174.05)
H07	0.5 - 7.0 (7.25 - 101.50)	0.60 (8.70)	12 (174.05)
H10	0.5 - 10.0 (7.25 - 145.04)	0.80 (11.60)	25 (362.6)
H15	1.0 - 15.0 (14.50 - 217.56)	1.00 (14.50)	25 (362.6)
H30	5.0 - 25.0 (72.52 - 362.6)	1.50 (21.75)	35 (507.63)

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 PROCESS HIGH 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 bar)	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.	MZ = Process pressure switch with a weatherproof enclosure rated IP66/IP68 as per IS/IEC 60529	1 = Polycarbonate Enclosure 2 = Polycarbonate Enclosure 3 = Polycarbonate Enclosure 4 = Diecast Al. 5 = Diecast Al. 6 = Diecast Al. 7 = SS Enclosure 8 = SS Enclosure 9 = SS Enclosure	PF2 = pressure switch, fixed differential with scale in bar PF3 = pressure switch, fixed differential with scale in psi *PA2 = pressure switch, adjustable differential with scale in bar *PA3 = pressure switch, adjustable differential with scale in psi	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)	A8 = General purpose microswitch A7 = 2SPDT microswitches A9 = General purpose microswitch	S1 = SS316 / 1/4" BSP(F) S2 = SS316 / 1/4" NPT(F) S3 = (welded diaphragm) SS316 / 1" BSP(M) S4 = SS316 / 1/2" NPT(F) S5 = SS316 / 1/2" NPT(M) H1 = Hastelloy C / 1/4" BSP(F) H2 = Hastelloy C / 1/4" NPT(F) N1 = Monel / 1/4" BSP(F) N2 = Monel / 1/4" NPT(F) T1 = Titanium / 1/4" BSP(F)	0 = Neoprene 1 = PTFE 2 = SS 316L 3 = Hastelloy C 4 = Monel 5 = Titanium
The prefix is subject to change as per specific requirement.	Note : Contact sales office for IP 68 enclosure	Note : For dual cable entries contact sales office	*Available only with option A7 and A9 in Group 6		* Please refer to page nos. 290 & 291 for options and specifications of microswitches Please contact sales office for additional information		

eg. A process pressure switch with fixed differential having 0.1 bar to 1 bar pressure range, with 5Amp. 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
☐	MZ	3	PF2	H01	A8	S1	0

Please specify full model number to avoid ambiguity.

HIGH RANGE PRESSURE SWITCHES

MZ