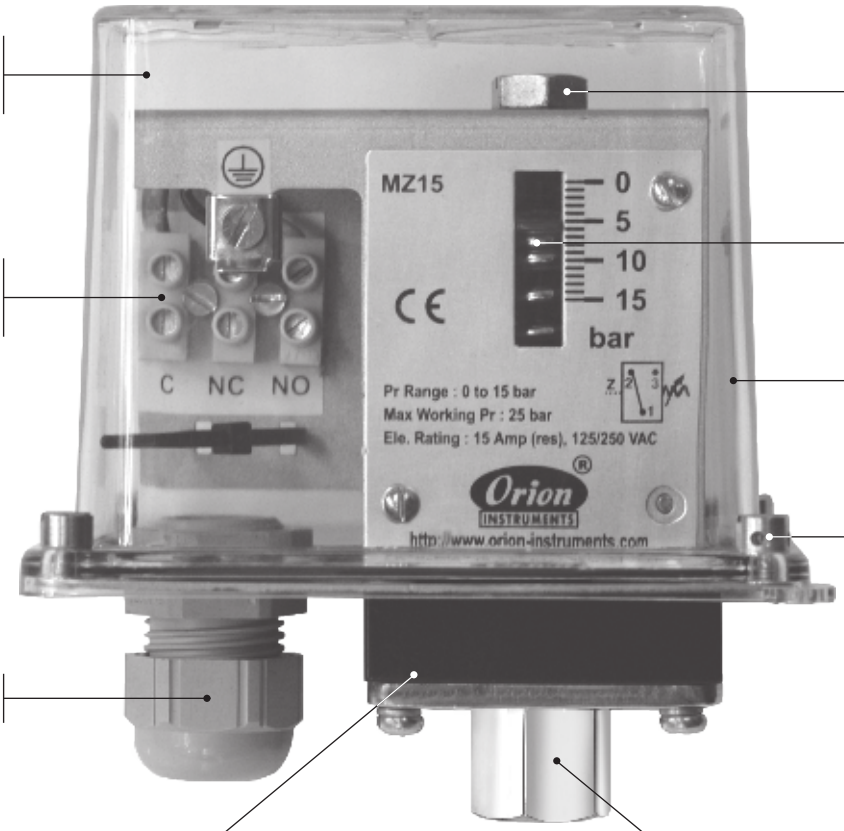
MZ HIGH PROOF HIGH RANGE PRESSURE SWITCHES



Transparent tough polycarbonate cover for visibility

Separate terminal block for wiring

Cable gland as a standard accessory

Non corroding exteriors for a long life of the switch

Internal setscrew to avoid easy access to setpoint

Large spring for ease of setpoint

IP66 enclosure for excellent ingress protection

Sealing facility to avoid tampering of working switch

SS316 & PTFE as wetted parts to switch a wide variety of media

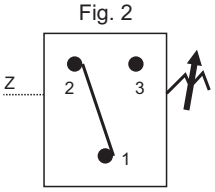
Approximate Weight : 0.900 Kg.

Some Applications :

Used where low set point and high proof pressure is required like tyre moulding machines, etc.

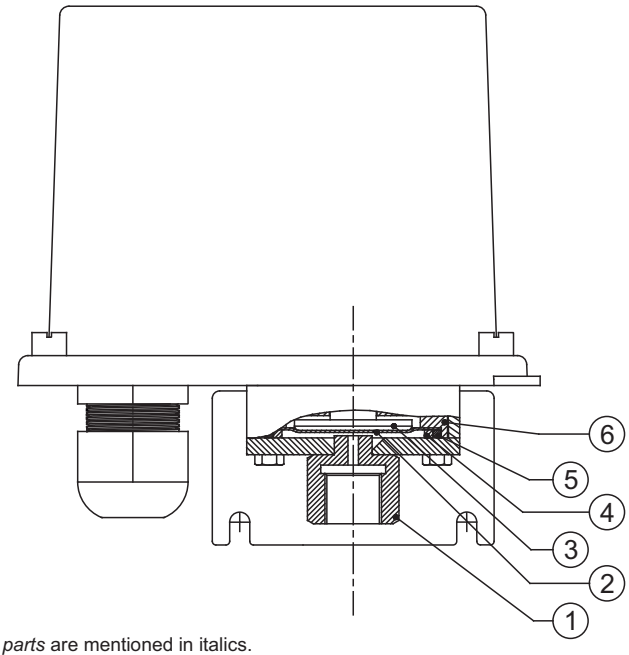
Electrical Connection :

Fig. 2



HIGH PROOF HIGH RANGE PRESSURE SWITCHES MZ

PRESSURE CAPSULE DETAILS

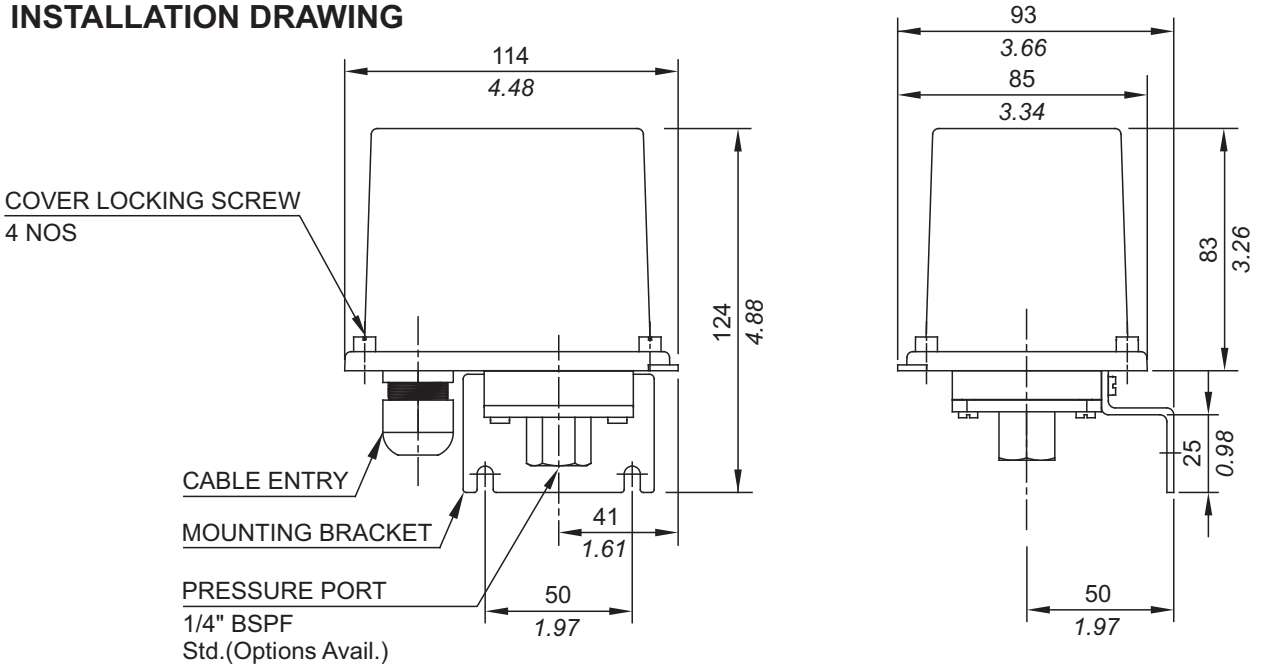


No. Description

1. *Pressure Port (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



APPROX. DIMENSIONS IN mm / *inches*

MZ HIGH PROOF 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	
P01	0.1 - 1.0 *(1.45 - 14.50)*	0.20 *(2.90)*	70 *(1015.26)*
P02	0.1 - 1.5 *(1.45 - 21.76)*	0.40 *(5.80)*	70 *(1015.26)*
P03	0.2 - 2.6 *(2.90 - 37.71)*	0.40 *(5.80)*	70 *(1015.26)*
P04	0.2 - 3.6 *(2.90 - 52.21)*	0.50 *(7.25)*	70 *(1015.26)*
P07	0.5 - 7.0 *(7.25 - 101.53)*	1.00 *(14.50)*	70 *(1015.26)*
P10	0.5 - 10.0 *(7.25 - 145.04)*	1.00 *(14.50)*	70 *(1015.26)*
P15	1.0 - 15.0 *(14.50 - 217.56)*	1.5 *(21.76)*	70 *(1015.26)*
P30	5.0 - 25.0 *(72.52 - 362.6)*	1.5 *(21.76)*	70 *(1015.26)*

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.

Note: Welded diaphragm also available as shown

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 (hysterisis) 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 PROOF 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. The prefix is subject to change as per specific requirement.	**MZ** = Process pressure switch with a weatherproof enclosure rated IP66/IP68 as per IS/IEC 60529 Note : Contact sales office for IP 68 enclosure	**1** = Polycarbonate Enclosure ½" NPT threads **2** = Polycarbonate Enclosure ¾" NPT threads **3** = Polycarbonate Enclosure M20 x 1.5 threads **4** = Diecast Al. Enclosure ½" NPT threads **5** = Diecast Al. Enclosure ¾" NPT threads **6** = Diecast Al. Enclosure M20 x 1.5 threads **7** = SS Enclosure ½" NPT threads **8** = SS Enclosure ¾" NPT threads **9** = SS Enclosure M20 x 1.5 threads Note : For dual cable entries contact sales office	**PF2** = pressure switch, fixed differential with scale **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 *Available only with option A7 and A9 in Group 6	**P01** = (0.1 - 1.0) **P02** = (0.1 - 1.5) **P03** = (0.2 - 2.6) **P04** = (0.2 - 3.6) **P07** = (0.5 - 7.0) **P10** = (0.5 - 10.0) **P15** = (1.0 - 15.0) **P30** = (5.0 - 25.0)	**A8** = General purpose microswitch **A7** = 2SPDT microswitches **A9** = General purpose microswitch * Please refer to page nos. 290 & 291 for options and specifications of microswitches Please contact sales office for additional information	**S1** = SS316 / ¼" BSP(F) **S2** = SS316 / ¼" NPT(F) **S3** = (welded diaphragm) SS316 / 1" BSP(M) **S4** = SS316 / ½" NPT(F) **S5** = SS316 / ½" NPT(M) **H1** = Hastelloy C / ¼" BSP(F) **H2** = Hastelloy C / ¼" NPT(F) **N1** = Monel / ¼" BSP(F) **N2** = Monel / ¼" NPT(F) More options available, please contact sales office	**0** = Neoprene **1** = PTFE **2** = SS 316L **3** = Hastelloy C **4** = Monel

eg. A process pressure switch with fixed differential having 0.1 bar to 1 bar pressure range, with 5 Amp. microswitch, SS316 pressure housing with ¼" 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	P01	A8	S1	0

Please specify full model number to avoid ambiguity.

Bulletin No. KA231025