

PRESSURE SWITCHES PRESSURE DIFFERENCE SWITCHES VACUUM SWITCHES

Fed up with your Compressor Pressure Switch? Switch to CS12

The CS12 from Orion offers you Peace of Mind and Unbeatable Features!

Ready to Use, Easy to Fit, No Special Mounting

2 Ground Screws enable you to "Just Fit it, Set it and Forget it!"

Corrosion Resistant Non Metallic Cover

Protects and Lasts...

Non Additional Relays, No Extra Circuitry

You can use just a three-phase switch.

Manual Cut-Off

Separate Auto Cut-Off Disconnect Lever.

Salient Features

- •Separate an auto-off disconnect lever for manual cut off of the compressor.
- •Three Phase Pressure Switches can be used instead of a motor starter pressure switch combination. No need for additional relay or any other circuitry.
- •2 Ground Screws
- •Available in ready to use condition.
- •Special Unloader valve is provided which prevents compressor from starting under load.
- •No Special Mounting required.
- •Corrosion Resistant and Non Metallic cover.

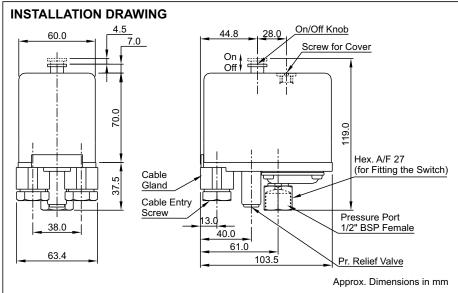
Technical Specifications

- •Sensing Element Nitrile Rubber.
- •Pressure Range 2 ~ 12 bar.
- •Factory setting 6~ 8 bar.
- •Input Pressure Port 1/2" BSP Female
- •Differential between 1.5 bar ~ 4 bar 4 bar (Maximum)
- •Relief valve 6 mm dia.
- •Cable Leading 11.5 & 14.5 mm diameter.
- •Electrical Rating 16 A, 500 V AC
- •Protection IP 44.

The 'Fit it, Set it, Forget it' Compressor Pressure Switch only from

INSTALLATION AND OPERATING INSTRUCTIONS

Fig. 1.1



Electrical Connections & Wiring

(Refer fig 1.2)

Wiring is to be carried out only when the switch is mounted and voltage free.

- (a) Remove the top cover by unscrewing the black screw.
- (b) Pass the cable through the cable gland and connect the wiring.
- (c) Basically there are two connection as shown in the figure 1.2 one for Line and another for Motor. Each has three wires for three phase. Please ensure appropriate connection of phase wires. Two earthing screws are provided to connect earthing wires from line and motor.

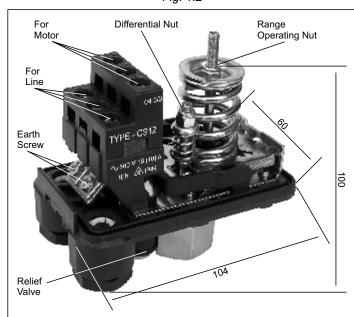


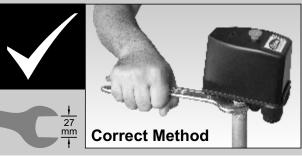
Fig. 1.2

Mounting

Please refer Fig. 1.1

- 1. Pressure switches can be mounted directly on process connection 1/2"BSP F nut with external size of 27 mm A/F.
- 2. In case, any other process connection is required then the same can be achieved using adaptor.
- 3. Please don't tighten the switch by holding the top cover. Use appropriate spanner for turning the process connection nut.





Set Point Adjustment:

Refer fig 1.2

Adjustment is to be carried out only when the switch is mounted, under pressure and voltage free

- a. Remove the top cover.
- b. Decide the cut-in (lower) pressure (P1) and cut-out (upper) pressure (P2). (Pressure switch is closed when the pressure is between pressure P1 and P2.)
- c. Turn the Range nut and differential nut to extreme top position.
- d. Apply the desired cut-in pressure (P1) to pressure port.
- e. Turn the Range nut slowly till contacts changeover.
- f. Turn the differential nut to the extreme positive end (bottom position)
- g. Apply the desired cut-out (upper) pressure (P2) to pressure port.
- h. Turn the differential nut till the contacts changeover.
- i. Some minor adjustment will be required to achieve the exact cutin (lower) / output (higher) point, which can be checked with the help of proper pressure measurement device.
- j. Replace the polymer cover after the adjustment of cut-in and cutout point is achieved.



Kaustubha Udyog AN IS09001:2000 COMPANY

7, Parichaya Society, 1000/6D, Navi Peth, Pune 411 030 INDIA Tel. : +91-(0) 20 - 24332124 / 24321053 Fax : +91-(0) 20 - 25460486 / 24332124 Email : pressure@vsnl.com

Website : http://www.orion-instruments.com

BULLETIN NO. : KA041220