CS12 COMPRESSOR PRESSURE SWITCHES

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

Salient 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

Three Phase Pressure Switches can be used instead of a motor starter pressure switch combination. No need for additional relay or any other circuitry.

Manual Cut-Off

Separate an auto-off disconnect lever for manual cut o ffof the compressor.

SalientFeature

✓Availablein ready to use condition.

SpecialUnloader valve is provided which prevents compressor from starting

under load. NoSpecial Mounting required.

Technical Specifications

SensingElement - Nitrile Rubber.

- ✓Factorysetting 6~ 8 bar.

✓ElectricalRating 16 A, 500 V AC

How to order CS12 Compressor Pressure Switches

Please specify the Range Code as CS12





Range Selection Table

Range Code (Orion)	(bar)	Switching differential (bar)
CS12	2 - 12	1.5 ~ 4.0



Instruments Pot. B-501/504, 5th floor, Raunak Arcade, Near THC Hospital, Gokhale Road, Naupada, Thane(W) 400602. Maharashtra INDIA E-Mail: sales@nkinstruments.com Skype: nitinkelkarskype

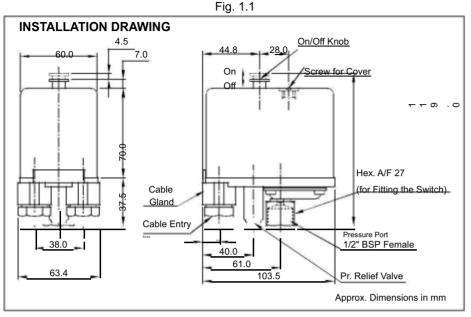
Telefax Nos : 91-22-25301330 / 31 / 32 Web: http://www.nkinstruments.com Gtalk: nkinstruments2006



COMPRESSOR PRESSURE SWITCHES

CS 12

INSTALLATION AND OPERATING INSTRUCTIONS

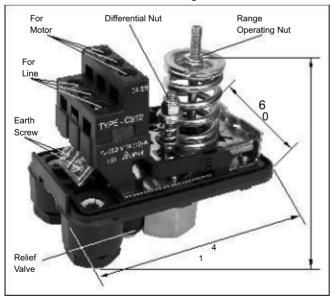


Electrical Connections & Wiring (Refer fig 1.2)

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



27 mm **Correct Method**

Wrong Method

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 cutting (lower) / output (higher) point, which can be checked with the help of proper pressure measurement device.





Thane(W) 400602. Maharashtra INDIA E-Mail: sales@nkinstruments.com Skype: nitinkelkarskype

Instruments Pot. B-501/504, 5th floor, Raunak Arcade, Near THC Hospital, Gokhale Road, Naupada, Telefax Nos.: 91-22-25301330 / 31 / 32 Web: http://www.nkinstruments.com Gtalk: nkinstruments2006





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 $27 \text{ mm} \Delta/\text{F}$
- 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.