# **ULTRA LOW RANGE PRESSURE DIFFERENCE SWITCHES**

# Ultra Low Range Pressure Difference Switches with User Adjustable Knob

#### Salient Features

# Easy to See, Easy to Use!

Set Point easily user adjustable with visible scale in mbar. (no need of pressure gauge).

# **Light Weight!**

190 gms

### Flexible!

Direction of PG 9 cable entry can be rotated in steps of 120°

# Long Lasting!

10<sup>6</sup> switching operations

# **More Options!**

Available in a wide range

## Trusted all over!

Tested and proven

#### **Technical Specifications**

- Media Air, non-flammable gases and non-aggressiv gases.
- Housing Material Body of Glass filled nylon and Cover of Polycarbonate.
- Protection category IP54 with cover.
- Maximum working pressure 10 Kpa / 1019.74 mm wg.
- Electrical Rating Maximum 1A/250VAC
- Electrical Connection -PCB mounted terminal strip
- Cable Entry PG9
- Mounting Lugs integrated in bottom Housing.
- High Pressure and Low Pressure port of Outer Diameter 6 mm.



#### **Range Selection Table**

Range Code (Orion)	Adjustment range for upper switching pressure Pa (mm wg)	Switching differential set to Pa (mm wg)
CK80	50 ~ 200 (5.099 ~ 20.395)	70 (7.139)
CK81	50 ~ 300 (5.099 ~ 30.592)	70 (7.139)
CK82	50 ~ 400 (5.099 ~ 40.789)	80 (8.159)
CK83	50 ~ 500 (5.099 ~ 50.987)	90 (9.179)
CK85	200 ~ 1000 (20.395 ~ 101.974)	100 (10.197)
CK86	500 ~ 2500 (50987 ~ 254.935)	150 <i>(15.296)</i>
CK87	1000 ~ 4000 (101.974 ~ 407.896)	250 (25.494)

How to order CK series Low Range Pressure Difference Switches

Please specify the Range Code eg. CK80 or CK87

# ULTRA LOW RANGE PRESSURE DIFFERENCE SWITCHES C



## **INSTALLATION AND OPERATING INSTRUCTIONS**

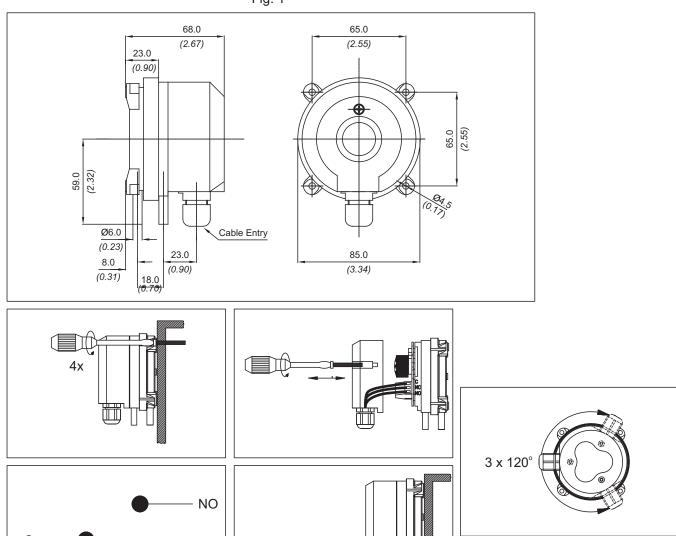
#### **Principle of Operation**

When the effective force generated by the pressure difference in the lower and upper chamber of the pressure capsule exceeds/falls beyond the balancing spring forces, an electrical element is actuated.

#### Mounting

The detail mounting dimensions are shown in Fig. 1

Fig. 1



P1 = higher pressure

P2 = lower pressure

Note: Do not install upside down with trip pressure of less than 50 Pa.

NC

<sup>\*</sup>Use two screws only, for mounting

<sup>\*\*</sup>Remove transport protection from P2