

# FC/FE

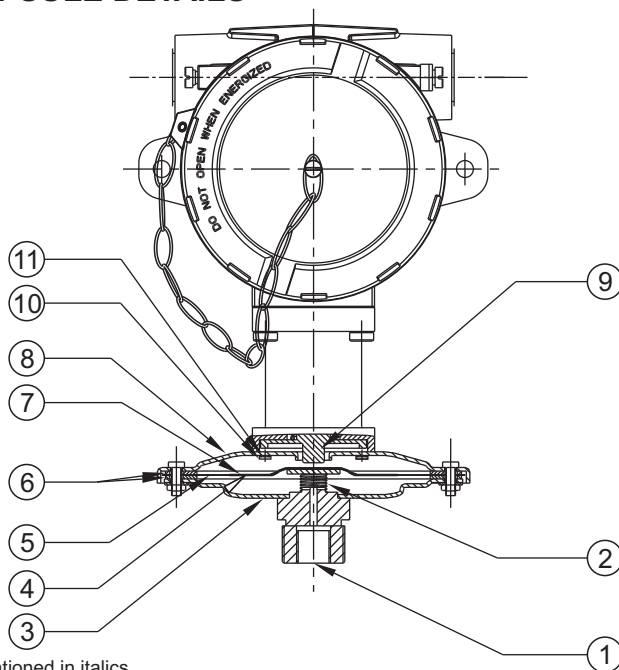
## LOW RANGE COMPOUND SWITCHES



# FC



## PRESSURE CAPSULE DETAILS



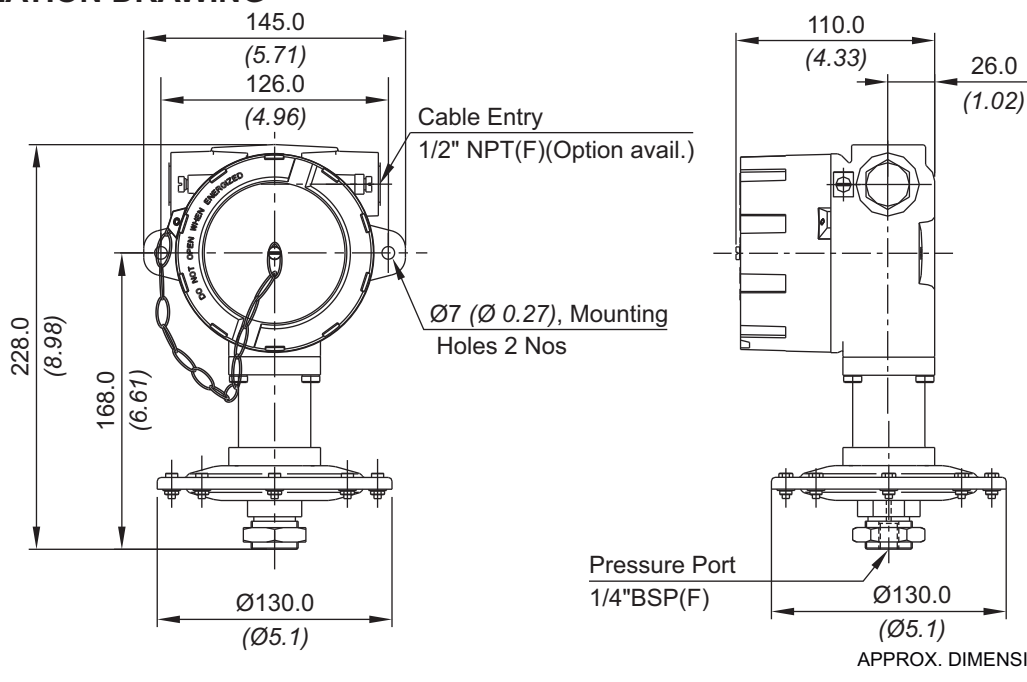
Note : *wetted parts* are mentioned in italics.

[illegible]

1. Pressure port (S.S.)\*
2. Support spring (S.S.)
3. Bottom flange (S.S.)
4. Support plate (Aluminium)
5. Diaphragm (Neoprene)
6. Gasket (Nitrile)
7. Top plate (Aluminium)
8. Top flange (S.S.)
9. Plunger (Aluminium)
10. Top flange screw (S.S.)
11. Sealing 'O' ring (Nitrile)

\*Pressure port is welded with flange

## INSTALLATION DRAWING



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

# FC/FE LOW RANGE COMPOUND SWITCHES

**RANGE SELECTION TABLE**

| Range Code | Range<br>mbar ("Wc)                | Differential* mm wc ("Wc)                         | Maximum<br>Working Pressure<br>bar (psi) |
|------------|------------------------------------|---------------------------------------------------|------------------------------------------|
|            |                                    | Approximate<br>Maximum<br>for "A1"<br>microswitch |                                          |
| CL2        | -15 to 15<br>(-6.030 to 6.030)     | 40.0<br>(1.574)                                   | 2.0<br>(29.00)                           |
| CL3        | -25 to 25<br>(-10.047 to 10.047)   | 60.0<br>(2.362)                                   | 2.0<br>(29.00)                           |
| CL5        | -50 to 50<br>(-20.093 to 20.093)   | 100.0<br>(3.937)                                  | 2.0<br>(29.00)                           |
| CLX        | -100 to 100<br>(-40.186 to 40.186) | 150.0<br>(5.90)                                   | 2.0<br>(29.00)                           |

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 LOW RANGE COMPOUND 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<br>(values in mbar)                                                                                         | Microswitch Type                                                                                                                                                                                                                                                                                                                                  | Pressure Port<br>Material / Size                                         | Diaphragm                                        |
| <input type="checkbox"/> 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.<br><br>The prefix is subject to change as per specific requirement. | <b>FC</b> =<br>IP66 Flameproof pressure switch, ATEX, IECEx & PESO approved<br><br><b>FE</b> =<br>IP66 Flameproof pressure switch, PESO approved | <b>1</b> = Al. head<br>½" NPT threads<br><b>2</b> = Al. head<br>¾" NPT threads<br><b>3</b> = Al. head<br>M20 x 1.5 threads<br><b>*4</b> = Grey Cl head<br>½" NPT threads<br><b>*5</b> = Grey Cl head<br>¾" NPT threads<br><b>*6</b> = Grey Cl head<br>M20 x 1.5 threads<br><b>7</b> = SS head<br>½" NPT threads<br><b>8</b> = SS head<br>¾" NPT threads<br><b>9</b> = SS head<br>M20 x 1.5 threads | <b>C1</b> = Compound switch, fixed differential without scale                                                                                   | <b>CL2</b> =<br>(1.5 - 15)<br><b>CL3</b> =<br>(-25 - 25)<br><b>CL5</b> =<br>(-50 - 50)<br><b>CLX</b> =<br>(-100 - 100) | <b>A1</b> = General purpose microswitch rated at 15 A; 250 VAC<br><br><b>*A6</b> = elements with adjustable deadband<br><br><b>*A7</b> = 2SPDT switching elements<br><br><b>A8</b> = General purpose microswitch rated at 5 A, 250 VAC; 5 A, 28 VDC<br><br><b>*B7</b> = 2SPDT Switching Elements<br><br><b>C6</b> = 1SPDT Adjustable Differential | <b>S1</b> =<br>SS316 / ¼" BSP(F)<br><br><b>S2</b> =<br>SS316 / ¼" NPT(F) | <b>0</b> =<br>Neoprene<br><br><b>1</b> =<br>PTFE |
|                                                                                                                                                                                                                                                                                                                 | Approx. switch weight in Kgs                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                    | Please refer to page nos. 120 & 121 for options and specifications of microswitches<br>* Please contact sales office for additional information |                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                   |                                                                          |                                                  |
|                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                  | For adjustable differential please select microswitches A6 or C6 in group 6                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                 | More options available, please contact sales office                                                                    |                                                                                                                                                                                                                                                                                                                                                   |                                                                          |                                                  |
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eg. Flameproof switch for gas group IIC, with 1/2" NPT cable entry in aluminium housing as 1SPDT pressure switch, having -150 to 150 mm Wc pressure range, with 15Amp. 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 |
|--------------------------|---------|---------|---------|---------|---------|---------|---------|
| <input type="checkbox"/> | FC      | 1       | C1      | CL2     | A1      | S1      | 0       |

Please specify full model number to avoid ambiguity.

## LOW RANGE COMPOUND SWITCHES

# FC/FE