

MOUNTING MANUAL

PRESSURE & TEMPERATURE SWITCHES

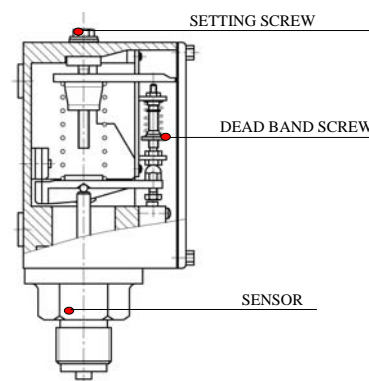
GENERAL DATA

- Material : Fiber glass and polyarylamide
- Cover : polycarbonate
- Screws : zinc coated steel
- Protection class : IP65 (according to EN60529)
- Working Ambient Temperature : -20 to 60°C

- Pressure switch : bunaN diaphragm + brass flange
- process working temperature : -20 to 100°C
- process connection : 1/2" BSPM or 1/4" BSPF

- On specific requests, other diaphragm materials are available : viton (0 to 150°C), EPDM (-40 to 120°C)*

- Temperature switch : 2m copper capillary
- copper bulb 9x120mm

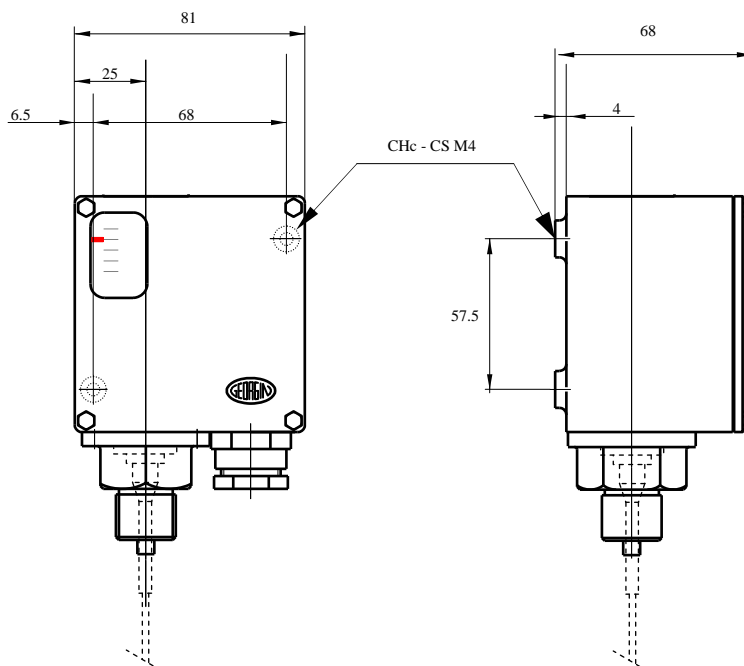


ELECTRICAL DATA

Verify the type of microswitch thanks to the reference indicated on the instrument sticker : UP or UC + microswitch Nr

contact rating – microswitch nr 06	10A 240 V~	0.3A 110 V ==
contact rating – microswitch nr 10	5A 240 V~	0.2A 110 V ==

WALL MOUNTING



PRESSURE SWITCH MOUNTING

- Process connection : ½" BSPM or ¼" BSPF
- Use the correct spanner. Never apply force to the body.
Maximum torque for instrument connection : 5 m.kg.
- Ensure that pipe does not cause mechanical stress on pressure connection and housing.
Maximum torque on cover screws : 0.025 m.kg.
- Remote mounting by using a capillary allows to eliminate pulsations, to reduce pressure peaks and vibrations.
- Respect environmental conditions and fluid characteristics corresponding to instrument's general data.
- Never exceed maximum pressure as indicated on the instrument sticker.

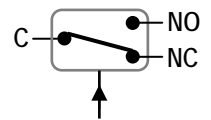
TEMPERATURE SWITCH MOUNTING

- Sensing element : capillary 2m – bulb 9x120mm. Material : copper.
- Do not bend or wind capillary at less than 80 mm diameter.
- Bulb must not be horizontally installed except special specifications.
- Respect environmental conditions and fluid characteristics corresponding to instrument's general data.
- Never exceed maximum temperature as indicated on the instrument sticker.
- Fluid control : use an adapted thermowell : GC(X)41(B) or use a capillary compression gland PC(X)41(B) to fix the bulb following the existing process connection requirements.
- Surface control : use a clamping ring to fix the bulb and insulate for a proper detection and control.

WIRING

- Via ISO M20 cable gland for cable Ø 7.5...13 mm.
- Internal 3 wires terminal block (capacity 2.5 mm²).
- State of the microswitch without pressure or temperature (see right scheme).
- Without stress (below setpoint), contact is ON between C-NC.
- Following required use (open or close circuit), connect the terminal block between C-NC or C-NO.

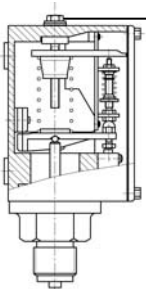
state of switch (no stress)



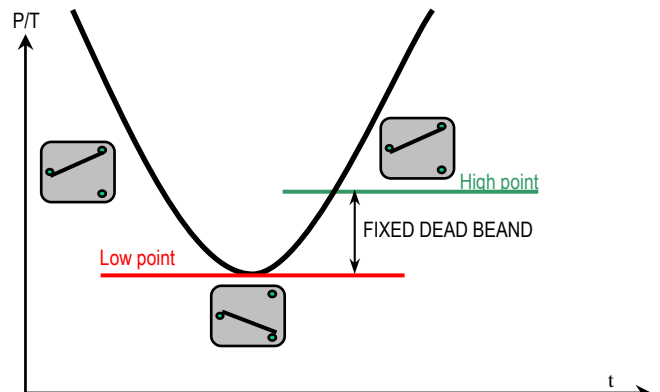
SETTING

Instrument setting depends on the type of microswitch. Check the type of microswitch used with the reference indicated on the sticker : UP or UC + microswitch Nr

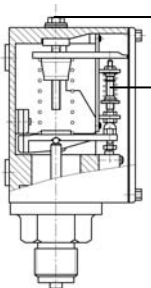
MICROSWITCH Nr 10 : FIXED DEAD BAND



- Screw or unscrew the setting screw ● until required setpoint ; scale on window will help you to reach setpoint.
- Setpoint indicated on scale is corresponding to the falling value (Low point). Switch changes as soon as the fixed dead band is overpassed (High point).
- For more accuracy, please use a control instrument. Apply required pressure or temperature to the instrument. Verify setpoint values and readjust setting if necessary.



MICROSWITCH Nr 06 : ADJUSTABLE DEAD BAND



- Relax completely dead band spring ▲ with dead band screw located inside the housing.
- Refer to MICROSWITCH Nr 10 setting paragraph and follow next instructions.
- As the dead band is adjustable, «High point» value can be changed by compressing dead band spring ▲ located inside the housing.
- Apply required pressure or temperature to the instrument. Verify setpoint values and readjust setting if necessary.
- Remark : by acting on setting screw ●, high and low points values are modified.

