

# PRESSURE SWITCHES INSTALLTION andSETTING

## INSTALLATION

Pressure switch has to be mounted preferably in vertical position, with the electrical connection upward. It's important to avoid shock and vibration that can damage the switch or changing the calibration value, generating wrong contacts. Please verify that the maximum system's pressure does not exceed the maximum static pressure value indicated in the catalogue. In case of pressure peaks is recommendable to protect the switch with an upstream protection. In case of flammable, corrosive or dangerous fluids please contact our technical department. Pressure switches' electrical protection is IP00. With the suitable protection caps or plugs it becomes IP54 or IP65. If required, we are able to supply already wired special execution, with stainless steel body, degreased for oxygen service, gold-plated contacts for low currents. (See technical datasheets).

## ELECTRICAL CONTACT

Pressure switches' available contact types as follows:

**NORMALLY OPEN (N.O.)** - electrical contacts SPST (Fig. 1).

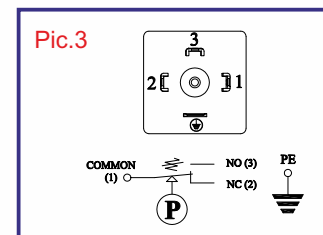
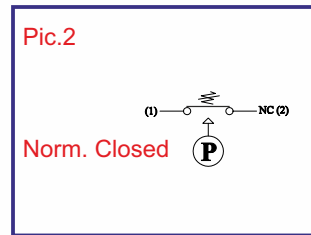
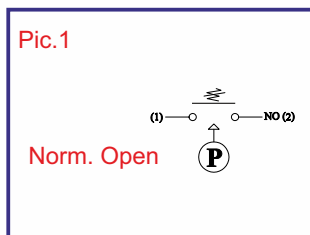
No current in absence of pressure. The contact will close when the pressure setting is reached .

**NORMALLY CLOSED (N.C.)** - Electrical contacts (SPST) (Fig.1).

Flow of current in absence of pressure. The contact will open when the pressure setting is reached .

**CHANGE OVER (N.O. or N.C.)** - Electrical contacts (SPDT).

The contact form change when the pressure setting is reached, you can connect it as normally open or normally closed. The pressure generated by the fluid on the pressure switch determines the contact switching. In this version you can select the version



## SETTING

Please use a suitable pressure generator and a visual or acoustic device (tester) to be connected the faston or screws to verify the switching commutation (Pic.4). Please use a class 2,5 pressure gauge with a correct scale range. For example if you have to set a pressure switch at 5 Bar, please use a gauge 0/10 Bar. To regulate the setting point, throw the screw (Fig. 5). In the model PF243, PF243L, PF244, PFS244, PS245, SPS screw is free, in PS271 model is under the 7 mm brass nut used for fixing the DIN connector (Fig. 6).

**Increase setting:** Turning the screw in clockwise direction for increasing the setting value. Once the set point value has been adjusted, the pressure switch is ready. Since the spring of the component needs some working cycle to guarantee a good performance, please repeat the operation described 5 times and adjust the setting value if necessary. **At the end of this extra cycle, you shall fix the screw with a glue.**

**Decrease setting:** Please set the pressure system at a value 40% higher than the setting value. Turning the screw in counter clockwise direction for decreasing the setting value. Since the spring of the component needs some working cycle to guarantee a good performance, please repeat the operation described 5 times and adjust the setting value if necessary. **At the end of this extra cycle you shall fix the screw with a glue.**

**On request COMER can supply pressure switches factory set at the required value.**



Rev.01/2018

# PRESSURE SWITCHES INSTALLTION andSETTING

## PRESSURE SWITCH TYPE: PF243

Contact type: Normally Open  
Normally Closed  
Max Voltage: 48 Volt  
Current: 0,5 A Resistive  
Electrical connections: Faston  
Electrical protection: IP54 con CP54  
Body: Exagon Sw24  
Torque: 5 Kgm



## PRESSOSTATI SERIE: PF243

Contatti elettrici: Normalmente Aperto  
Normalmente Chiuso  
Tensione Massima: 48 Volt:  
Corrente: 0,5 A Resistivi  
Connessioni elettriche: Faston  
Protezione elettrica: IP54 con CP54  
Corpo: Esagono Ch24  
Coppia di fissaggio: 5 Kgm

## PRESSURE SWITCH TYPE: PF243L

Contact type: Normally Open  
Normally Closed  
Max Voltage: 48 Volt  
Current: 0,5 A Resistive  
Electrical connections: Faston  
Electrical protection: IP65 con CP65  
Body: Exagon Sw24  
Torque: 5 Kgm



## PRESSOSTATI SERIE: PF243L

Contatti elettrici: Normalmente Aperto  
Normalmente Chiuso  
Tensione Massima: 48 Volt:  
Corrente: 0,5 A Resistivi  
Connessioni elettriche: Faston  
Protezione elettrica: IP65 con CP65  
Corpo: Esagono Ch24  
Coppia di fissaggio: 5 Kgm

## PRESSURE SWITCH TYPE: PF244

Contact type: Normally Open  
Normally Closed  
Max Voltage: 250 Volt  
Current: 3 A Resistive  
Electrical connections: Faston  
Electrical protection: IP54 con CP54  
Body: Exagon Sw24  
Torque: 5 Kgm



## PRESSOSTATI SERIE: PF244

Contatti elettrici: Normalmente Aperto  
Normalmente Chiuso  
Tensione Massima: 250 Volt:  
Corrente: 3 A Resistivi  
Connessioni elettriche: Faston  
Protezione elettrica: IP54 con CP54  
Corpo: Esagono Ch24  
Coppia di fissaggio: 5 Kgm

## PRESSURE SWITCH TYPE: PS245

Contact type: Normally Open  
Normally Closed  
Max Voltage: 48 Volt  
Current: 0,5 A Resistive  
Electrical connections: Screw terminals  
Electrical protection: IP65 con CP65  
Body: Exagon Sw24  
Torque: 5 Kgm



## PRESSOSTATI SERIE: PS245

Contatti elettrici: Normalmente Aperto  
Normalmente Chiuso  
Tensione Massima: 48 Volt:  
Corrente: 0,5 A Resistivi  
Connessioni elettriche: Morsetto  
Protezione elettrica: IP65 con CP65  
Corpo: Esagono Ch24  
Coppia di fissaggio: 5 Kgm

## PRESSURE SWITCH TYPE: PFS243

Contact type: Changeover SPDT  
Max Voltage: 250 Volt  
Current: 6 A Resistive  
Electrical connections: Faston  
Electrical protection: IP65 con CP65  
Body: Exagon Sw 24  
Torque: 5 Kgm



## PRESSOSTATI SERIE: PFS243

Contatti elettrici: In Scambio SPDT  
Tensione Massima: 250 Volt:  
Corrente: 6 A Resistivi  
Connessioni elettriche: Faston  
Protezione elettrica: IP65 con CP65  
Corpo: Esagono Ch24  
Coppia di fissaggio: 5 Kgm

## PRESSURE SWITCH TYPE: PS271

Contact type: Changeover SPDT  
Max Voltage: 250 Volt  
Current: 6 A Resistive  
Electrical protection: IP65 Connector DIN43650  
Body: Exagon Sw27  
Torque: 5 Kgm

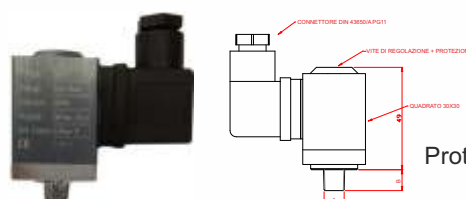


## PRESSOSTATI SERIE: PS271

Contatti elettrici: In Scambio SPDT  
Tensione Massima: 250 Volt:  
Corrente: 6 A Resistivi  
Connessioni elettriche: PIN su connettore  
Protezione elettrica: IP65 Connettore DIN43650  
Corpo: Esagono Ch27  
Coppia di fissaggio: 5 Kgm

## PRESSURE SWITCH TYPE: SPS

Contact type: Changeover SPDT  
Max Voltage: 250 Volt  
Current: 5 A Resistive  
Electrical protection: IP65 Connector DIN43650  
Body: Zinc plated steel body square 30x30  
Torque: 7 Kgm



## PRESSOSTATI SERIE: SPS

Contatti elettrici: In Scambio SPDT  
Tensione Massima: 250 Volt  
Corrente: 5 A Resistivi  
Connessioni elettriche: PIN su connettore  
Protezione elettrica: IP65 Connettore DIN43650  
Corpo: Flangia Acciaio zincato 30x30  
Coppia di fissaggio: 7