

OPERATING PRINCIPLE

The pressure switch of the PN series is mainly used for boiler ironing systems and other small electric household appliances, conditioning and heating systems (wall boilers).

The “PN” pressure switch is made up of a stainless steel membrane. It is compatible with several types of gaseous or liquid fluids with a max. temperature of 155 °C

The micro switch is indirectly operated by a lever, the movement of which is caused by the membrane expansion.

Position the central screw to calibrate the pressure switch and use the non-central screw to regulate hysteresis (differential).

Made of reinforced thermoplastic material, it can resist high thermodynamic stresses and conditions.



Technical data	
Maximum overload pressure	12 bar
Regulation pressure	0.2 bar ÷ 6 bar
Tolerance	± 0,2 bar
Differential	- adjustable from 0.2 bar to 0.8 bar - fixed between 0.1÷0.4 bar
Working overpressure over calibration	2,5 bar
Max fluid temperature	155°C
Room temperature	From – 30°C to +120 °C
Contact fluid	H2O; glycol; air; inert gas, steam
Power supply voltage	from 5 volt to 240 volt
Electric capacity AC	15A NC contact; 9A NO contact
Electric capacity DC	gold contacts: 1mA-100mA standard contacts: 100mA-700mA
Plastic material	Polyaryllamide Solvay plastic material of an IXEF 1022 black
Sensitive element	stainless steel AISI 301
Seal on the inlet	EPDM
Electrical contacts	pad Ø4.3mm x h1mm silver copper (gold upon request = thickness 0.5µ)
Connection fast-on	NO + NC copper, COM silver-plated brass
Protection degree	IP 00
Approvals	ENEC , UL, CE (en 60730-2-6 A1-1997+A2-1998 low voltage directive 73/23EEC and 93/68EEC

- PRESSURE SWITCH LIFE**

The pressure switch life will depend upon the electrical load running through the contacts. At the maximum rating (15A), the pressure switch is type-approved to accomplish over 100,000 operations for UL standards and over 50,000 for EN60730 standards. When the electrical capacity applied to contacts is ≤ 0.5A, over 10⁶ operations are guaranteed.

Hydraulic connection inlet		
Model 5612: 1/4" GAS	Model 5611: 1/8" GAS	Model 5410: 1/8" CONICO
		