

PRESSURE SWITCH PB SERIES

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

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).



Technical data	
Maximum overload pressure	4.5 bar
Regulation pressure	0.2 bar ÷ 2 bar
Tolerance	± 0,1 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
Working fluid temperature	90°C
Max fluid temperature	100°C
Room temperature	From – 20 to +100 °C
Contact fluid	H2O; glycol; air; inert gas
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
Seal on the membrane	silicon
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

(over 90°C, the calibration value will decrease by 0.05 bar every 10°C temperature increase)

- 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 100000 operations for UL standards and over 50,000 for EN60730 standards. When the electrical capacity applied to contacts is $\leq 0.5A$, over 10^6 operations are guaranteed.

