Pressure Switch
Type : PSB1

Applications

Hydraulics and mobile hydraulics.
Pneumatics.
Heavy Duty machinery.
All compressed air, liquids or gases.

Technical Data

Mechanical Connection	: Bottom Flange.
Reproducibility	: ±1% of adjusted pressure.
Working Temperature	: -20°C ...+110°C [-4°F ...+230°F]
Vibration Test (DIN EN 60068-2-27)	: 20g (Test Time 30 min)
Shock Test (DIN EN 60068-2-27:1993)	: 30g
Working Cycle	: 5,000,000 cycles
Viscosity	: Between 10 ... 800 mm^2/sec

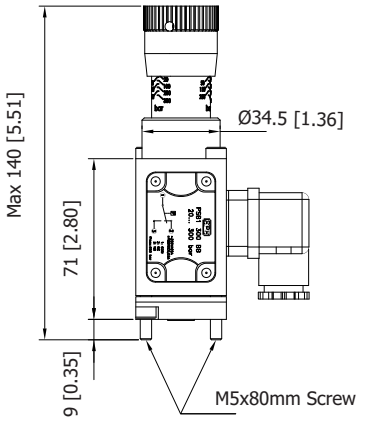
Description

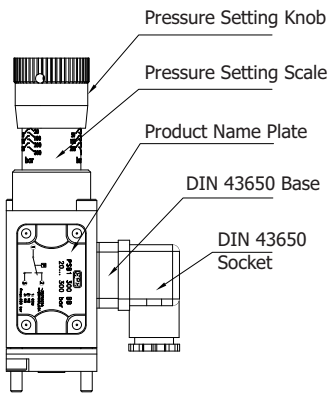
PSB1 pressure switch opens or closes electrical circuit depending on pressure is dropping or rising. Working Pressure, 7 bar to 600 bar [101.5 to 8702 psi], can be set by pressure setting knob on the pressure switch. When you turn the setting knob to clockwise, pressure rises up. It works appropriately under shock and high pressures. The knob makes it easy and convenient for setting the pressure while the system is working. PSB1 series pressure switches are employed wherever compressed air, fluids, gases are used and a precisely set hysteresis is needed. The pressure switch has vertical stacking connection holes for bottom flange connection. It has mounting design for all axes. They are classified depending on pressure setting ranges.

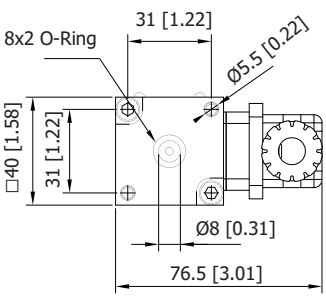
Features

- PSB1 Pressure Switches are settable using the setting knob on the pressure unit.
- It has Aluminum case.
- It has sealing ring NBR equipment.
- Long service life due to high-quality micro switch.
- High vibration, shock resistance.
- The pressure switch has vertical stacking connection holes for bottom flange connection.
- It has pressure setting scale to set conveniently.

Dimensions







Dimensions in mm [inch]

Ordering Code

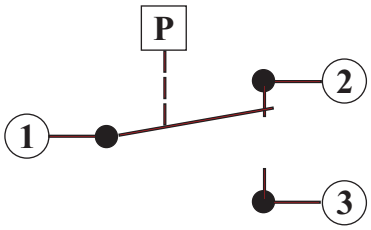
1 2 3 4 5 6

PSB1 - 070 - BB - A - P - COD-A

1	**Series**	Pressure Switch - Block type - Base mounting with External setting knob	**= PSB1**
2	**Pressure Range**	7 to 70 bar [101.5 to 1015 psi]	**= 070**
		20 to 160 bar [290.1 to 2321 psi]	**= 160** Pmax=650 bar [9427 psi]
		20 to 300 bar [290.1 to 4351 psi]	**= 300**
		20 to 400 bar [290.1 to 5802 psi]	**= 400**
		50 to 600 bar [725.2 to 8702 psi]	**= 600** Pmax=750 bar [10875 psi]
3	**Connection**	Block type - Base mounting	**= BB** (standard)
4	**Body**	Aluminium	**= A** (standard)
5	**Sealing**	NBR/Nitrile	**= P** (standard)
6	**Electrical Connection**	Change-Over - with DIN Socket - Form A	**= COD-A** (standard)

* Before ordering, check for availability.

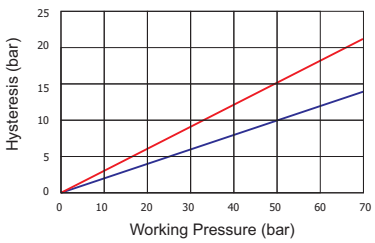
Electrical Connection



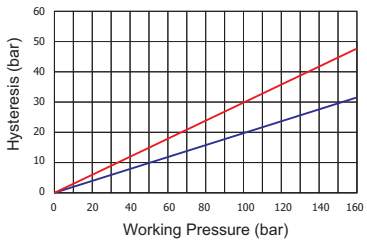
Switch Function:
Terminal 1-2: It has current in case of pressure decrease or no pressure (NC)
Terminal 1-3: It has current in case of pressure increases (NO)

Pressure Difference Variation Graphs

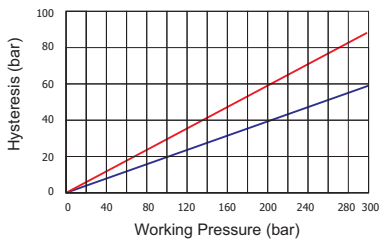
Pressure Setting Range : 7-70 bar [101.5 to 1015 psi]
Max. Set Pressure : 70 bar [1015 psi]
Max. System Pressure : 650 bar [9427 psi]



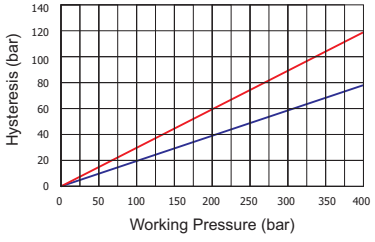
Pressure Setting Range : 20-160 bar [290.1 to 2321 psi]
Max. Set Pressure : 160 bar [2321 psi]
Max. System Pressure : 650 bar [9427 psi]



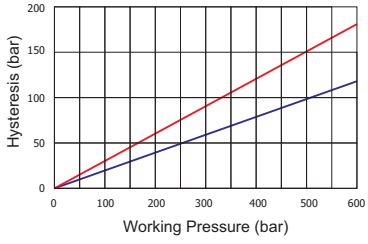
Pressure Setting Range : 20-300 bar [290.1 to 4351 psi]
Max. Set Pressure : 300 bar [4351 psi]
Max. System Pressure : 650 bar [9427 psi]



Pressure Setting Range : 20-400 bar [290.1 to 5802 psi]
Max. Set Pressure : 400 bar [5802 psi]
Max. System Pressure : 650 bar [9427 psi]



Pressure Setting Range : 50-600 bar [725.2 to 8702 psi]
Max. Set Pressure : 600 bar [8702 psi]
Max. System Pressure : 750 bar [10875 psi]



Notes

These values are maximum values and can not be used at the same time.
For use in aggressive chemicals / fluids contact us.
Clearances as per standards of Hydraulic oils (fluids) to be strictly followed.
For effective & long working life of pressure switches it is advised to use proper filtration in the system.
Please avoid using out of range values to have a long service from pressure switch.

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