

Parker Product Datasheet



Electro-hydraulic pressure switches series PSB are robust, long-life high performance devices that provide an electrical signal when sensed pressure rises above or falls below the selected setting. The maximum operating pressure is 315 bar.

PART NUMBER: PSB160AF1A
SEAL MATERIAL: NBR
ADJUSTMENT TYPE: Manual switching point
SWITCHING PRESSURE: 10 to 160 bar
PRESSURE RANGE (BAR): 10-160
CONNECTION TYPE: Flange, front face
PRESSURE ADJUSTMENT CONTROL TYPE: Hexagon socket
CONNECTION: Flange
LOCKING MECHANISM: na

PRODUCT OVERVIEW

Parker's robust electro-hydraulic pressure switches series PSB ensure great flexibility for mounting with manifolds, sandwich plates or direct line connections. A hydraulically dampened piston provides accurate response and extended service life. The maximum operating pressure for all variations is 315 bar.

Markets:

- Industrial

Features/Benefits:

- Robust cast iron construction. Rugged, yet compact product - designed to provide long service

life in demanding applications

- Four separate adjustable pressure range options - enables the operator to precisely select the desired pressure setting
- Flange or pipe mounting - therefore almost universally applicable
- Optional keylock adjustment - prevents tampering or unauthorized adjustments in critical applications
- IP65 class electrical protection - maintains integrity against moisture in spray or splashdown situations
- Short delivery time for most variations - no warehousing necessary

Applications:

- Suitable for general hydraulic applications

Function:

The spring loaded piston is hydraulically dampened. The PSB provides a very accurate hysteresis between the switching points. The required operating pressure is adjusted by the setscrew. Unauthorised adjustments can be prevented by the optional cylinder lock. The electric element is a micro switch with snap-action contact. Three terminals permit application as 'On', 'Off' or 'Changeover' switch. The electrical connection is made with a 3-pole plug-in connector to EN 175301-803 with ground.

Note:

For inductive DC loads a spark discharger should be used to increase service life.

TECH SPECIFICATIONS

MAXIMUM OPERATING PRESSURE	315 bar
ACTUATION TYPE	Electro-hydraulically
MOUNTING POSITION	Unrestricted
DIVISION	Hydraulic Valve Systems Division Europe
MOUNTING TYPE	Flange
MAXIMUM OPERATING TEMPERATURE	60 °C
SEAL MATERIAL	NBR
MAXIMUM FLOW RATE	N/A

DUTY CYCLE	Max. 1/s
PRODUCT SERIES	Pressure switch
MINIMUM OPERATING TEMPERATURE	-20 °C
BODY MATERIAL	Steel
WEIGHT	1 kg