# 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:** PSB160AV1A
**CONNECTION TYPE:** Fitting, front face, tube Ø6
**ADJUSTMENT TYPE:** Manual switching point
**PRESSURE RANGE (BAR):** 10-160
**CONNECTION:** Fitting
**PRESSURE ADJUSTMENT CONTROL TYPE:** Hexagon socket
**LOCKING MECHANISM:** na
**SWITCHING PRESSURE:** 10 to 160 bar
**SEAL MATERIAL:** NBR

## 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 varations 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

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|---|---|
| **MAXIMUM OPERATING TEMPERATURE** | 60 °C |
| **DUTY CYCLE** | Max. 1/s |
| **MINIMUM OPERATING TEMPERATURE** | -20 °C |
| **DIVISION** | Hydraulic Valve Systems Division Europe |
| **MOUNTING POSITION** | Unrestricted |
| **SEAL MATERIAL** | NBR |
| **MAXIMUM FLOW RATE** | N/A |

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|---|---|
| **ACTUATION TYPE** | Electro-hydraulically |
| **PRODUCT SERIES** | Pressure switch |
| **BODY MATERIAL** | Steel |
| **MAXIMUM OPERATING PRESSURE** | 315 bar |
| **MOUNTING TYPE** | Pipe mounting |
| **WEIGHT** | 1 kg |