## **Characteristics / Ordering Code**

**Series PSB** 

The electro-hydraulic pressure switch provides an electric signal when the sensed pressure goes above or below the selected setting.

#### **Function**

The spring loaded piston is hydraulically dampened. The PSB provides a very accurate hysteresis between the switching points (see diagram).

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.

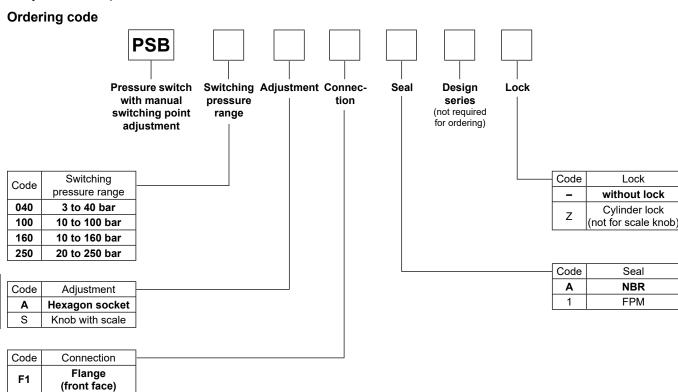
The electrical connection is made with a 3-pole plug-in connector to EN 175301-803 with ground.

#### Note

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

#### **Features**

- · Flange or pipe mounting
- · 4 pressure ranges
- · Can be used as opener or closer
- · Cylinder lock optional

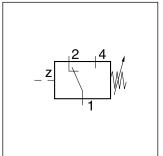


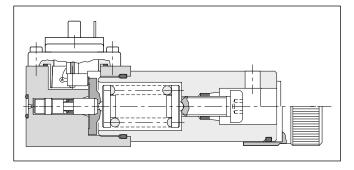


PSB UK.INDD 25.08.22

V1







**Fitting** 

(front face, tube

Ø6)

**Bold letters =** 

Short-term availability

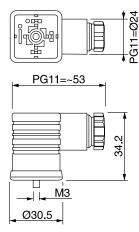
# **Technical Data / Plugs**

## **Technical data**

General						
Symbol			DIN 24340			
Design			Plunger type switch			
Mounting			PSB*F1* flange (front face) PSB*V1 pipe mounting			
Mounting position			unrestricted			
Ambient temperature [°C]		[°C]	-20 +60			
MTTF <sub>D</sub> value [years]		[years]	150			
Weight [kg]		[kg]	1.0			
Hydraulic						
Operating pressure [bar]		[bar]	to 315			
Actuating pressure difference			see diagram			
Duty cycle			max. 1/s			
Fluid			Hydraulic oil according to DIN 51524			
Fluid temperature [°C]		[°C]	-20+70 (NBR: -25+70)			
Viscosity,	permitted recommended	[cSt] / [mm²/s] [cSt] / [mm²/s]				
Filtration			ISO 4406 (1999); 18/16/13			
Electrical connection			Plug-in connector to EN 175301-803			
Insulation			IP65 as per EN 60529 (with correctly mounted plug-in connector)			
Contact load carrying capacity			5 A at 250 VAC; 1 A at 50 VDC; 0.2 A at 250 VDC			

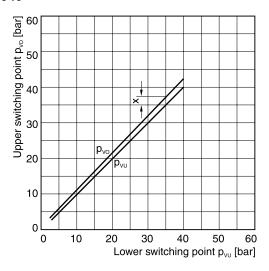
# Plug EN 175301-803

Description	Threaded cable joint	Ordering code
Plug EN 175301-803, design type AF, protection class IP65	PG11	HR 21500157
Plug with LED, 12230 V AC/DC, protection class IP65	PG11	HR 21502321

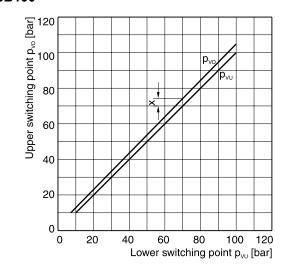




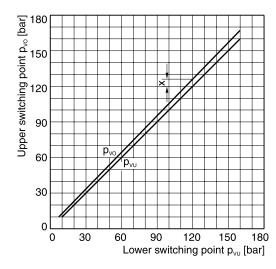
# Switching pressure difference PSB040



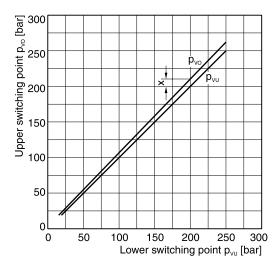
#### **PSB100**



#### **PSB160**



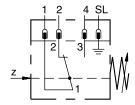
#### **PSB250**



X = switching differential

All characteristic curves measured with HLP46 at 50 °C.

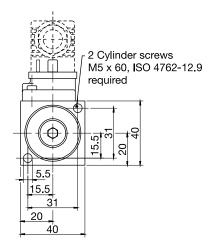
#### **Electrical connections**

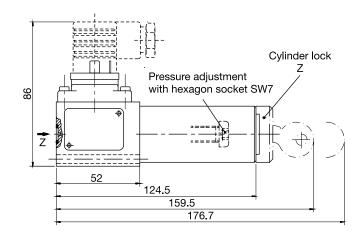


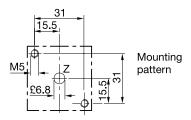
Electrical connection EN175301-803

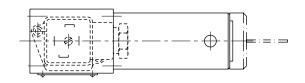


#### PSB\*F1\*

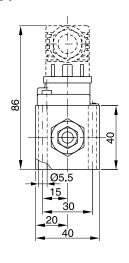


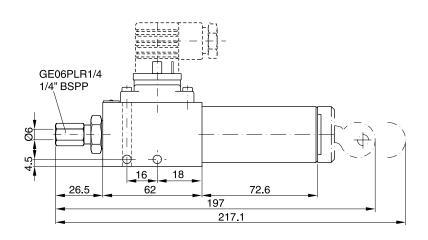


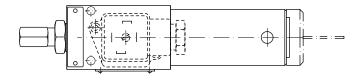




#### PSB\*V1\*











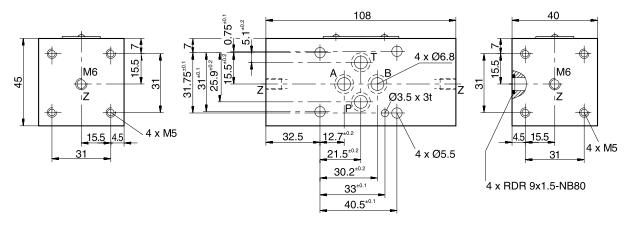
## Series PSB

#### **Technical Data**

Switch code	Ordering code	Nominal size	Function	
3,2,1,1 P A B 1,23,	H06PSB-994	06	Pressure switch connection to A or B or A and B: Connections not used are closed by plug.	
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	H10PSB-996	10		
327T P A B 723	H06PSB-993	06	Pressure switch connection to P (left or right mounting	
\\ \frac{1}{1} \cdot \frac{1} \cdot \frac{1}{1}	H10PSB-995	10	is possible). Connection not used is closed by plug.	

**Bold letters =** Short-term availability

#### **Dimensions NG06**



#### **Dimensions NG10**

