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.

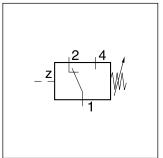
Note

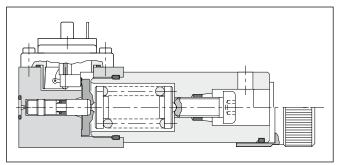
For inductive DC loads a spark discharger should be used to increase service life.

Features

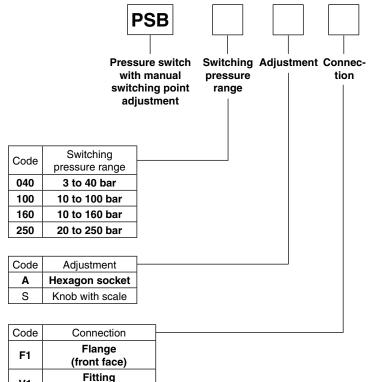
- Flange or pipe mounting
- 4 pressure ranges
- · Can be used as opener or closer
- Cylinder lock optional

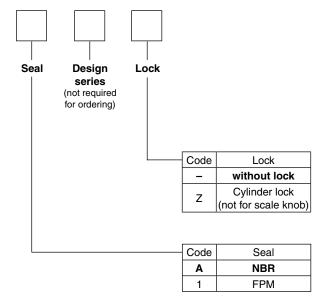






Ordering code





Bold letters = Short-term availability

PSB UK.INDD CM 17.04.15

(front face, tube Ø6)

۷1



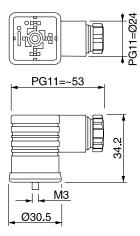
Technical Data / Plugs

Technical data

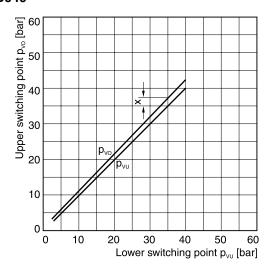
General						
Symbol			DIN 24340			
Design			Plunger type switch			
Mounting			PSB*F1* flange (front face) PSB*V1 pipe mounting			
Mounting position			unrestricted			
Ambient temperature [°C]		[°C]	-20 +60			
MTTF _D value [years]		[years]	150			
Weight [kg]		[kg]	1.0			
Hydraulic						
Operating pressure [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

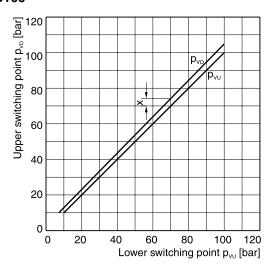
Description	Threaded cable joint	Ordering code
Plug EN 175301-803, design type AF, protection class IP65	PG11	HR 21500157
Plug with LED, 12230 V AC/DC, protection class IP65	PG11	HR 21502321



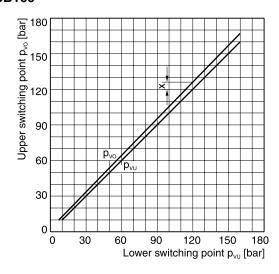
Switching pressure difference PSB040



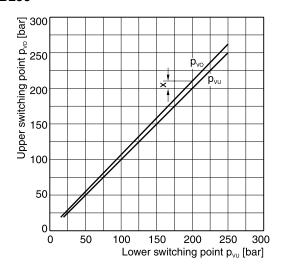
PSB100



PSB160



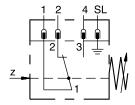
PSB250



X = switching differential

All characteristic curves measured with HLP46 at 50 °C.

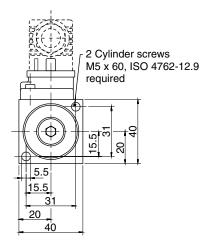
Electrical connections

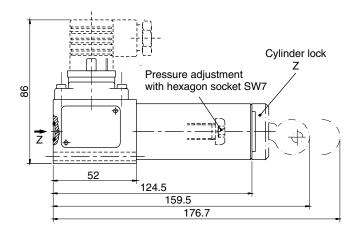


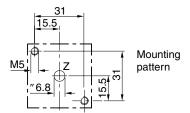
Electrical connection EN175301-803

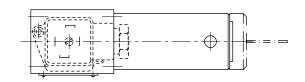
12-44



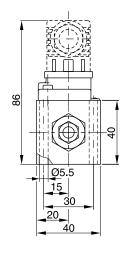


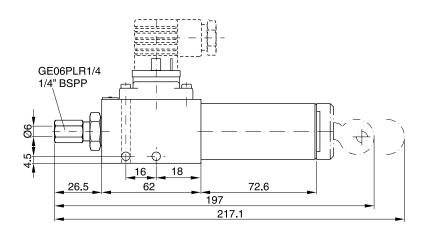


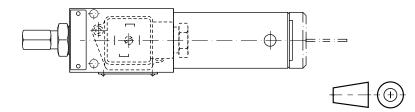




PSB*V1*









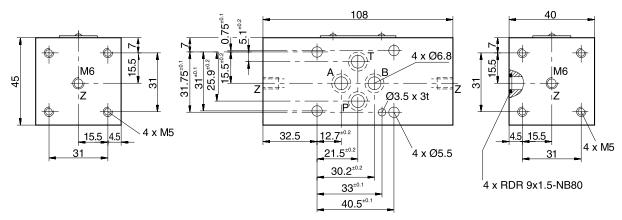
12-45

Technical Data

Switch code	Ordering code	Nominal size	Function	
3,2,1,1 P A B 7,2,3	H06PSB-994	06	Pressure switch connection to A or B or A and B: Connections not used are closed by plug.	
\\ \frac{\frac{1}{2}\cdot \frac{1}{2}\cdot \frac{1}{2}\cd	H10PSB-996	10		
3,2,1,1 P A B 1,2,3,1	H06PSB-993	06	Pressure switch connection to P (left or right mounting	
\\ \tag{\frac{1}{2}\cdot \frac{1}{2}\cdot \frac{1}{2}\cdo	H10PSB-995	10	is possible). Connection not used is closed by plug.	

Bold letters =Short-term availability

Dimensions NG06



Dimensions NG10

