

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 set-screw. 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

Code	Switching pressure range
040	3 to 40 bar
100	10 to 100 bar
160	10 to 160 bar
250	20 to 250 bar

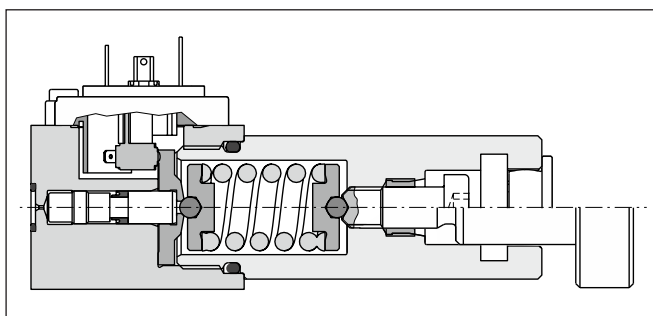
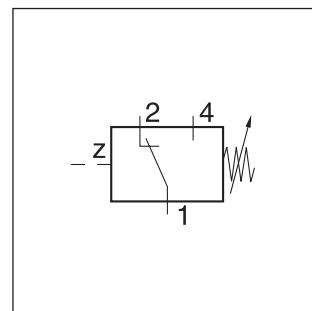
Code	Adjustment
A	Hexagon socket
S	Knob with scale

Code	Connection
F1	Flange (front face)
V1	Fitting (front face, tube Ø6)

Code	Lock
-	without lock
Z	Cylinder lock (not for scale knob)

Code	Seal
A	NBR
1	FPM

**Bold letters =
Short-term availability**

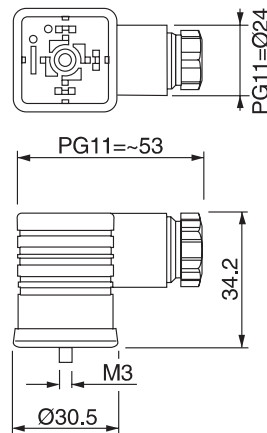


Technical data

General			
Symbol			DIN 24340
Design			Plunger type switch
Mounting			PSB*F1* flange (front face) PSB*V1 pipe mounting
Mounting position			unrestricted
Ambient temperature	[°C]		-20 ... +60
MTTF _D value	[years]		150
Weight	[kg]		1.0
Hydraulic			
Operating pressure	[bar]		to 315
Actuating pressure difference			see diagram
Duty cycle			max. 1/s
Fluid			Hydraulic oil according to DIN 51524
Fluid temperature	[°C]		-20...+70 (NBR: -25...+70)
Viscosity, permitted	[cSt] / [mm²/s]		20 ... 400
recommended	[cSt] / [mm²/s]		30 ... 80
Filtration			SO 4406; 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

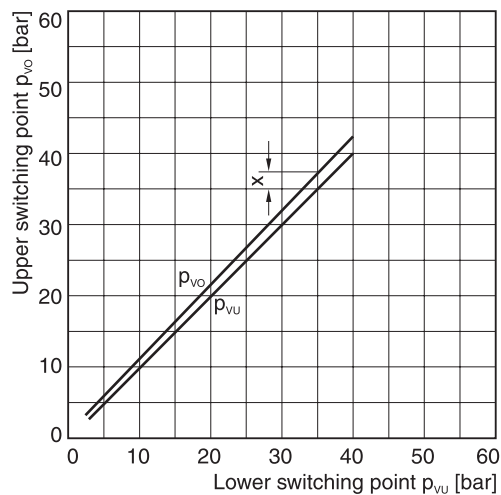
Plug EN 175301-803

Description	Threaded cable joint	Ordering code
Plug EN 175301-803, design type AF, protection class IP65	PG11	HR 21500157
Plug with LED, 12...230 V AC/DC, protection class IP65	PG11	HR 21502321

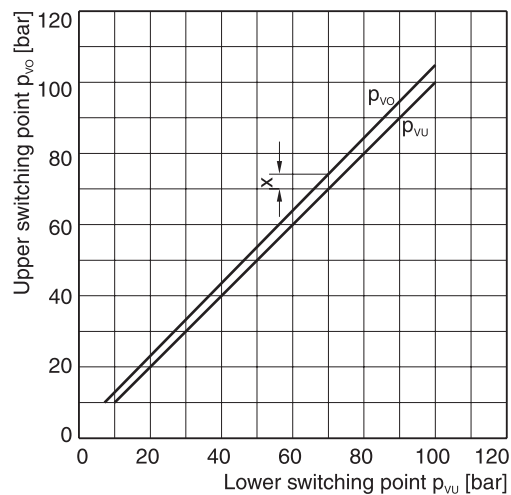


Switching pressure difference

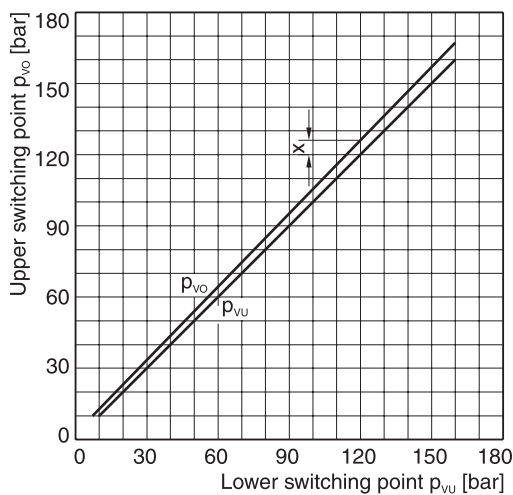
PSB040



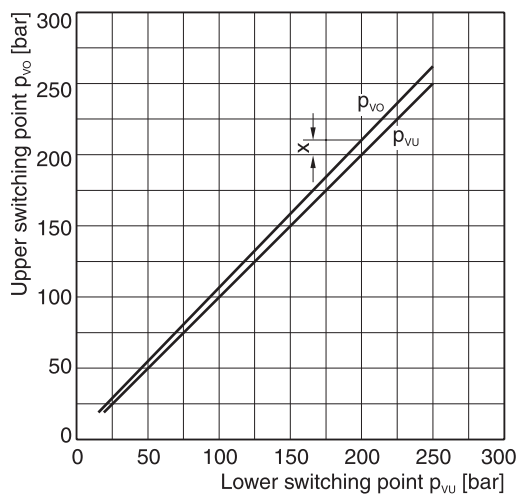
PSB100



PSB160



PSB250

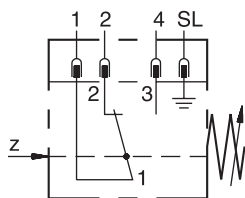


X = switching differential

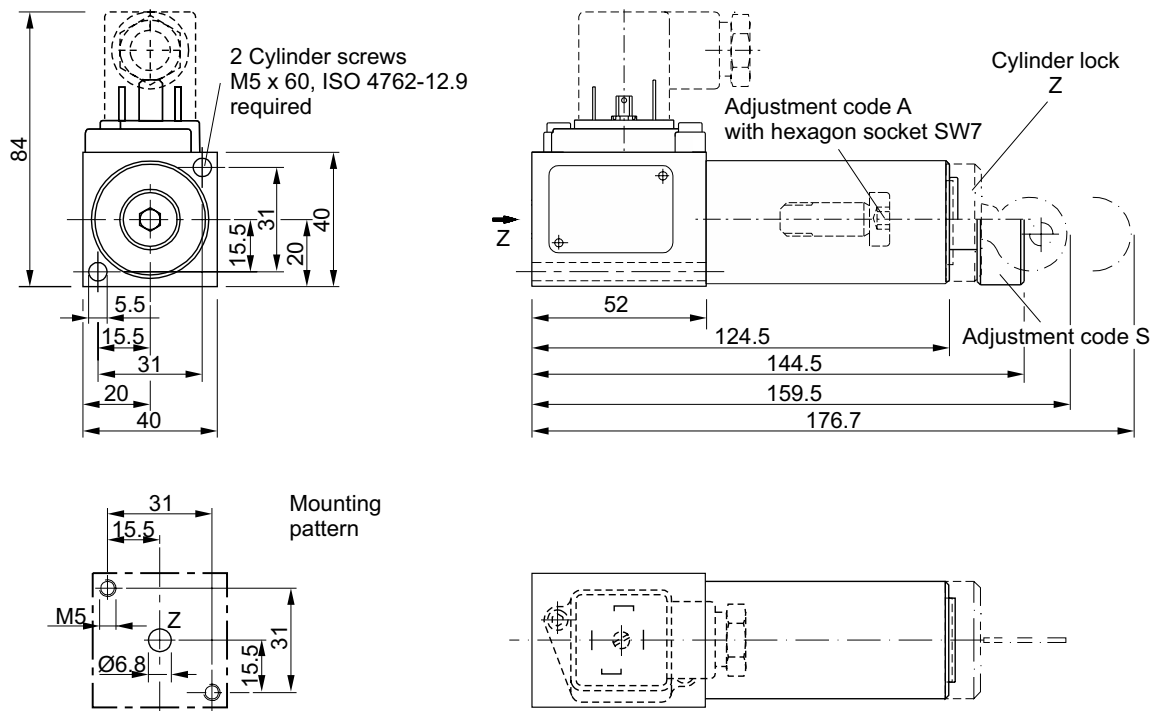
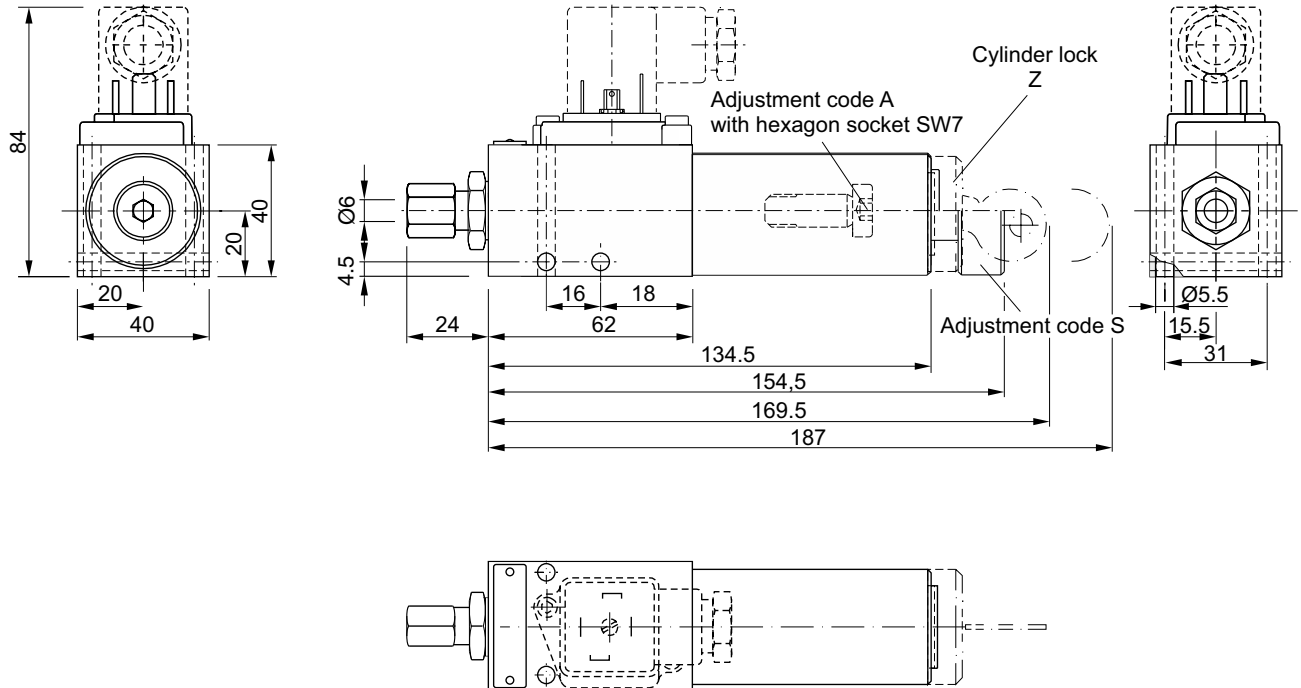
All characteristic curves measured with HLP46 at 50 °C.

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Electrical connections



Electrical connection EN175301-803

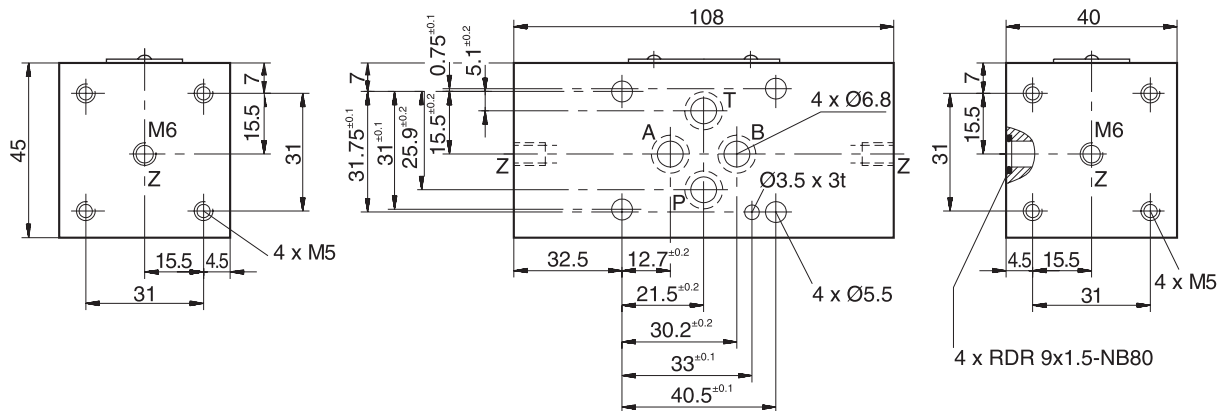
Dimensions**Pressure Switch
Series PSB****PSB*F1*****PSB*V1***

Technical Data

Switch code	Ordering code	Nominal size	Function
	H06PSB-994	06	Pressure switch connection to A or B or A and B: Connections not used are closed by plug.
	H10PSB-996	10	
	H06PSB-993	06	Pressure switch connection to P (left or right mounting is possible). Connection not used is closed by plug.
	H10PSB-995	10	

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Short-term availability

Dimensions NG06



Dimensions NG10

