

## Mechanical pressure switch Block Type

SPDT with high accuracy



### Description

With these pressure switches pneumatic or hydraulic signals are converted into electric signals. The switching point is fully adjustable by means of a simple adjustment knob within the adjustment range. The micro-switch can be used as an NO, a NC or SPDT contact.

All switches are equipped with the most used DIN 43650 connector which allows easy and fast assembly. The switch is also available with socket with LED for an easier switch-point adjustment and visualize the switching status. In addition, switches are also available without the socket and the type S4340 with el. connection M12x1 .

The measuring ranges and choice of materials for this series of pressure switches make them especially suitable for all measuring tasks in pneumatic or hydraulic systems. They can be reliably employed wherever high switching performance under high pressure is called for. By virtue of their exceptional resistance to shock and vibration, these mechanical switches are equally suitable for use in mobile hydraulics.

The pressure switches are designed for industrial use under normal environmental conditions. Devices for special applications, higher system pressures or other pressure ranges are available on request.

### Feature

- High accuracy  $\pm 2\%$  of FS
- Robust design
- Easy to adjust
- High loadability (30g)
- El. connection M12x1 (optional)
- Status-LED (optional)

### Applications

- Mechanical engineering
- Plant construction
- Hydraulic incl. mobile hydraulics
- Pneumatic-systems

Adjustment ranges (bar)	Overload limit (bar)	Hysteresis (% FS)	Measuring principle	Function
				SPDT
0,2..2	20	1..11	Diaphragm	S4340B071001
0,5..8				S4340B144001
1..16				S4340B076001
10..30	350*	2..8	Piston	S4350B133001
10..80				S4350B153001
10..120				S4350B866001
10..160				S4350B082001
20..200				S4350B083001
20..250				S4350B084001
30..320				S4350B085001

\* higher pressures on request.

**Model: S4340; S4350**

## Technical data

		Mechanical pressure switch block type	
<b>Model No.</b>	S4340	S4350	
<b>Execution</b>	positive gauge pressure		
<b>Media</b>	compressed air, neutral fluid , other fluids or gages preferable with material stainless steel and PTFE	self-lubricating fluid (like hydraulic oil, light heating oil, grease)	
<b>Process connection</b> standard option	G1/4 female flange connection (horizontal) G 1/4 not turnable	G1/4 turnable flange connection vertical DIN ISO 16873 G 1/4 female	
<b>Measuring principle</b>	spring loaded diaphragm	spring loaded piston	
<b>Materials</b> measuring element standard  option pressure connection  option housing standard	NBR  PTFE, others on request pressure die-cast ( G 1/4 female ) zinc plated steel ( G 1/4 ) stainless steel ( G 1/4 and G1/4 female )  pressure die-cast	piston: stainless steel dynamic: PTFE; static: NBR others on request zinc plated steel ( G 1/4 and G 1/4 female ) pressure die-cast ( flange vertical )  pressure die-cast	
<b>Switching outputs</b> number switching function  switching element standard adjustment standard option	1 SPDT  micro-switch silver plated contacts  in situ continuously adjustable, with adjustment knob factory adjusted		
<b>Hysteresis (20°)</b>	1% .. 11% of FS	2% .. 8% of FS	
<b>Power rating</b> DC to 28 V AC to 250 V	max. 4A max. 3A		
<b>Frequenzy</b>	max. 200/min		
<b>Repeatability (20°C)</b>	±2% of FS		
<b>Temperature ranges</b> media ambient	-10°C..+80°C -10°C..+80°C		
<b>Electrical connection</b> standard option	DIN43650 M12x1	DIN43650	
<b>Mounting</b>	2 through bore-hole Ø5,2mm	with process connection	
<b>Protection class</b>	DIN43650 : IP65 M12x1: IP67	DIN43650: IP65	
<b>Loading capacity</b> Shock (mechanical) Vibration(under resonance)	30g 10g		
<b>CE-sign</b>	acc. EU-directive 73/23/EWG		
<b>Mounting position</b>	any		
<b>Weight</b>	app. 0.30 kg	app. 0.33 kg	

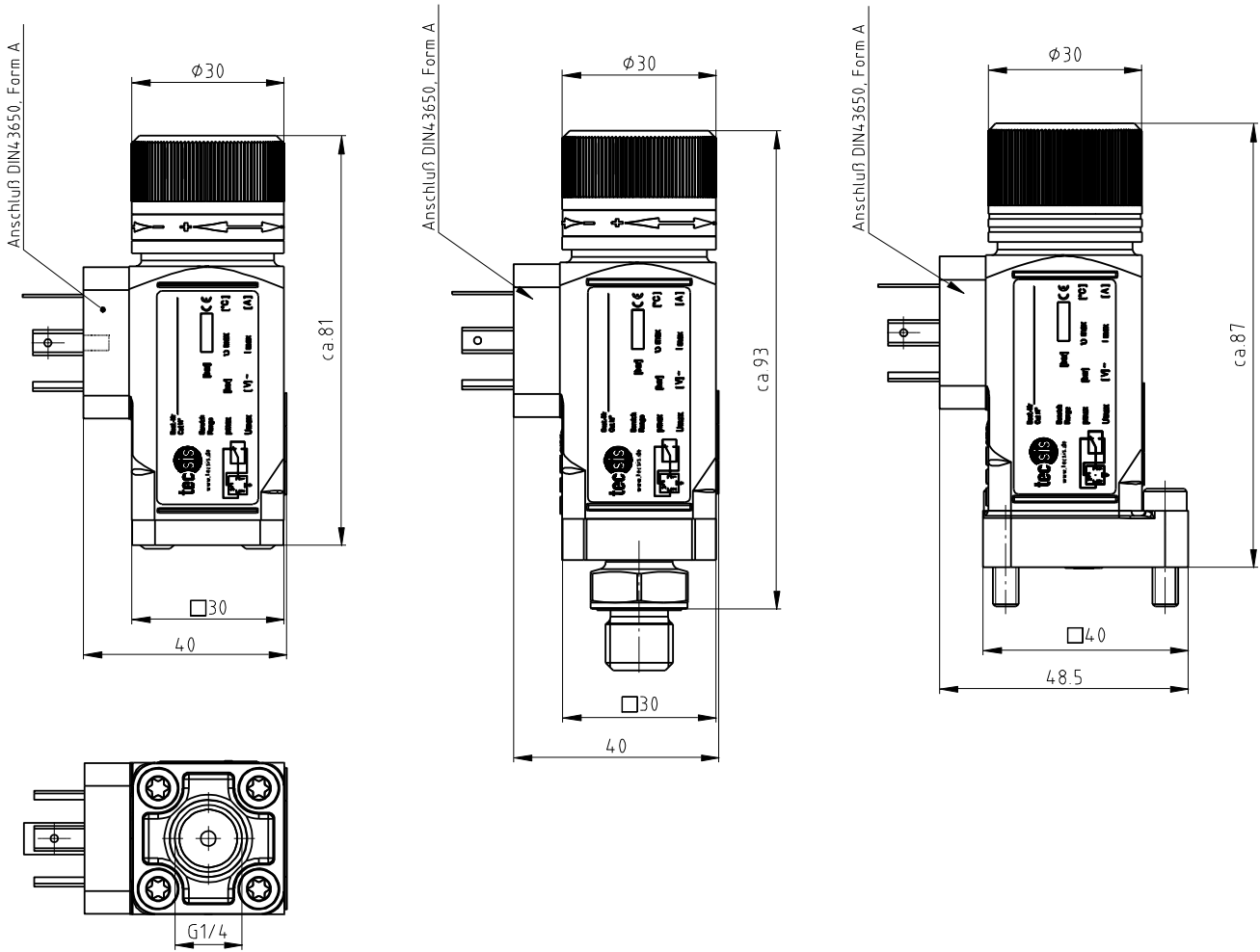
## Dimensions

(in mm)

S4340 G $\frac{1}{4}$  female

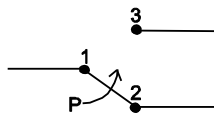
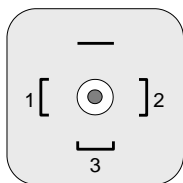
S4350 G $\frac{1}{4}$  turnable

S4350 flange connection DIN ISO 16873

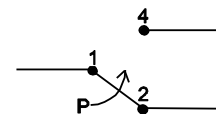
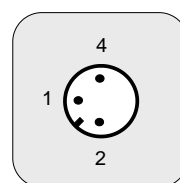


## Electrical connection

DIN 43650



M12x1



Subject to technical alterations