

## Mechanical pressure switch for differential pressure

### S4510, S4520, S4530

1 changeover contact



#### Special features

The measuring principle of the mechanical pressure switch is a spring loaded diaphragm respectively for higher pressure ranges a spring loaded piston. The high mechanical service life, high contact rating and the compact design characterize the tectsis differential pressure switch.

High quality parts and an integrated microswitch obtain an outstanding reliability and accuracy. The switching reliability and long service life are guaranteed by either a silver plated or optional gold plated contact.

#### Areas of application

Mechanical differential pressure switches are suitable for all areas, where an electrical signal is related to a given differential pressure value.

They are especially designed for applications of controlling and monitoring differential pressures of filters, level measurement and flow measurement or for universal usage in machine and plant constructions.

#### Product features

The pressure switches can be obtained for adjustable ranges between 0.3 bar and 50 bar. The switching output can be set over the whole adjustable range.

The electrical connector acc. to DIN 43650 enables the open mounting in machine constructions. This means an excellent ease of service and maintenance.

The switching function is realized by a changeover contact. The switching point can be adjusted via a central turning screw on site.

#### Adjustment ranges

Adjustment range	max. working pressure	overload limit	burst pressure	model S4510	model S4520	model S4530
				changeover contact		
				differential pressure		
0,3... 2	0... 10	10	15	M		
0,5... 3	0... 10	10	15		M	
2... 10	0... 50	50	200			K
5... 50	0... 250	250	350			K

M: diaphragm K: piston type

Model No: S4510, S4520, S4530

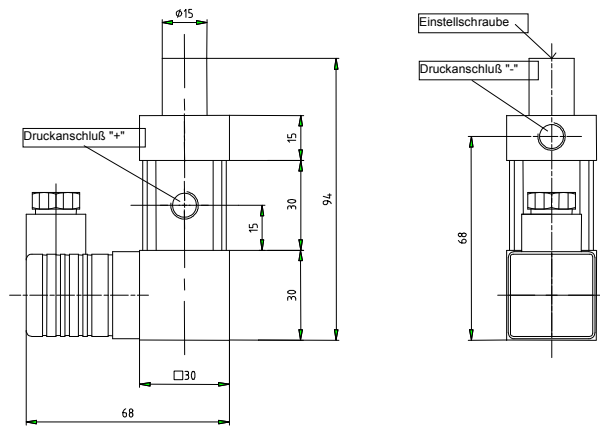
## Technical data

Model No.	S4510	S4520	S4530	Options
<b>Execution</b>	diaphragm		piston	
<b>Pressure</b>	differential pressure			
<b>Process connection</b>	2 x G 1/8 female			
<b>Measuring principle</b>	spring loaded diaphragm or piston			
<b>Materials</b>				
measuring element	NBR-diaphragm		piston with PUR-seal	other materials
pressure port case	brass brass		zinc plated steel zinc plated steel	
<b>Load cycles</b>	1 Mio			
<b>Switch outputs</b>				
switch function	changeover		changeover	gold plated contacts factory setting
switching element	microswitch – silver plated contacts		microswitch – silver plated contacts	
adjustment	on site via central turning screw, under pressure			
<b>Hysteresis</b>	typ. 15... 25%			
<b>Power rating</b>				
DC up to 42 V	2 A			
up to 110 V	0,5 A <sup>1)</sup>			
AC up to 42 V	5 A			
up to 125 V	5 A <sup>1)</sup>			
up to 250 V	5 A <sup>1)</sup>			
<b>Repeatability</b>	5 %			
<b>Temperature ranges</b>				
storage	-25... +85 °C			
media	-25... +85 °C			
ambient	-25... +85 °C			
<b>Electrical connection</b>	connector acc. to DIN EN 175301-803 incl. junction box			
<b>Protection type</b>	IP 65			
<b>Weight</b>	approx. 0.43 kg	approx. 1.03 kg	approx. 1.125 kg	

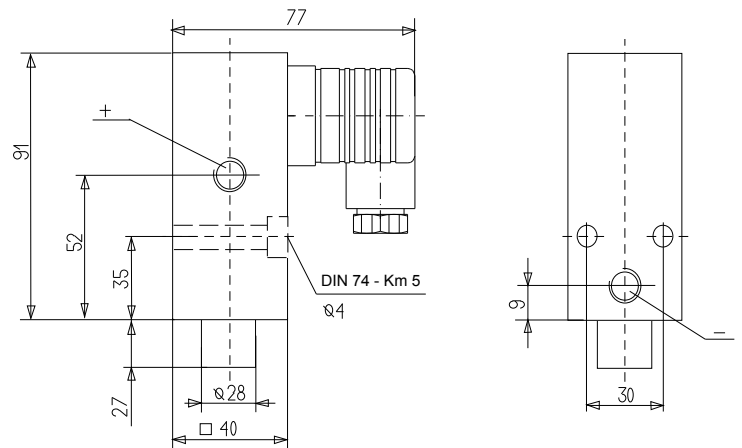
<sup>1)</sup> for voltages >42 regulation for protective means have to be regarded!

## Dimensions

Model S4510

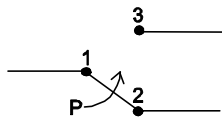


Model S4520 and S4530

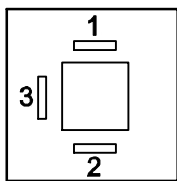


## Electrical connection switching function

Changeover contact S4510, S4520, S4530



Connecting terminals



Subject to technical alternations