Mechanical pressure switch S4130

Low priced pressure switch
with N/NO-contact
for high power rating

Description

Mechanical pressure switch with a diaphragm or piston sensing element and one switched output as a NO or NC contact for converting pneumatic and hydraulic pressures into an electrical switching signal.

An adjusting screw allows setpoints to be easily adjusted, even in situ. Factory preadjusted setpoints may optionally be chosen.

The switch is suitable for media such as compressed air, non-aggressive liquids or self-lubricating fluids. It is available as standard with a 1/4" thread (optionally 1/8") galvanized steel process connection, or optionally in stainless steel. Other connections are possible upon request. The switch can be installed in any desired mounting position.

The S4130 can be used to control and monitor pressure media in machine and plant engineering. The integrated microswitch allows switching performance of up to 5 A. Gold-plated contacts are also optionally available for low switching currents.

The proven styling with flat connectors is designed especially for use within equipment. A flexible protective cap can be ordered as an accessory.

Features

- High power rating
- Low weight
- Low priced

Applications

- Mechanical engineering
- Plant construction
- Hydraulic
- Pneumatic

Adjustment ranges (bar)	Overload limit (bar)	Repeat-ability[1] (bar)	Hysteresis (%)	Measuring principle	Switching function	
					NC	NO
0,3..2	2	±0,2	15..20	Diaphragm	S4130B071001	S4130B071101
1..10	10	±0,5			S4130B075001	S4130B075101
10..70	70	±0,2		Piston	S4130B127001	S4130B127101
50..200	200	±0,5			S4130B083001	S4130B083101

[1] The repeatability refers to 20ºC.

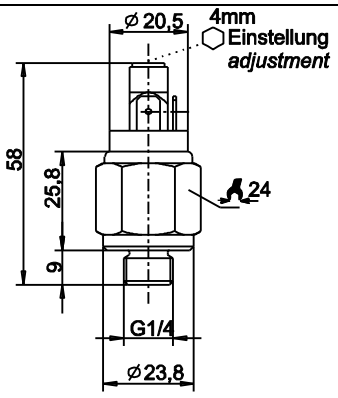
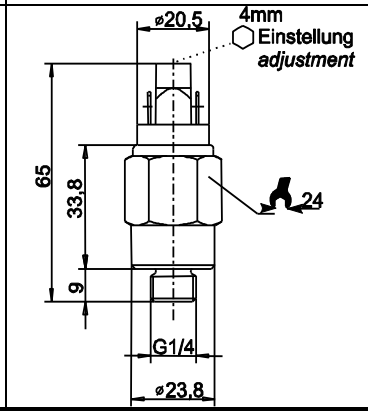
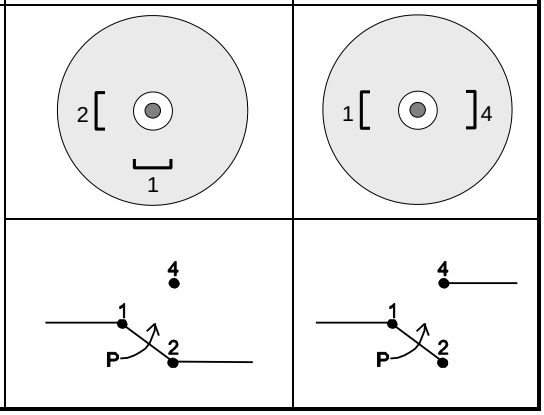
We suggest the suitable protection cap: AZM90X101005.

Model: S4130

Technical data

	Mechanical pressure switch	
Model	S4230	
Execution	positive gauge pressure	
Media	compressed air, neutral fluid, self-lubricating fluid	
Process connection standard optional	 G1/4 G1/8; others on request	
Measuring principle	spring loaded diaphragm ≤10bar spring loaded piston >10bar	
Materials Measuring element standard optional Thread standard optional Housing standard optional	Diaphragm type NBR EPDM; FPM; others on request zinc plated steel stainless steel; others on request zinc plated steel; contact insert plastic stainless steel; contact insert plastic	Piston type Zinc plated steel; NBR others on request
Switching outputs Number Switching function Switching element standard option Adjustment standard option	 1 NC or NO microswitch silver plated contacts gold plated contacts in site, with adjustment screw factory adjusted	
Hysteresis	15..20%	
Power rating[1)] DC uo to 42 V up to 110 V AC up to 42 V / 250 V	 2 A 0,5 A 5 A	
Load cycles	max. 200/min	
Temperature ranges	-25°C..+85°C	
Electrical connection	flat connector 2 x 6,3 x 0,8	
Protection type	IP00, with protection type IP54	
Mounting position	any	
Weight	~ 0,07 kg	

[1)] All specification for ohmic load. For voltages > 42V regulation for protective means have to be regarded!

Dimensions (in mm)		Electrical connection	
Diaphragm type	**Piston type**	**NC**	**NO**
			

Subject to technical alternations