Mechanical pressure switch S4130

Low priced pressure switch
with NC / NO – contact
for high power rating

Description

Mechanical pressure switch with a diaphragm or piston sensing element and one switching output (NO or NC contact) for the conversion of pneumatic and hydraulic pressure into an electrical switching signal.

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

This tecsis switch is suitable for media such as compressed air, non-aggressive liquids or self-lubricating fluids. It is available with a 1/4" thread (optionally 1/8") galvanized steel process connection as standard, 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

The proven styling with flat connectors is designed especially for use inside devices. 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)	Burst pressure (bar)	Repeat-ability[1] (bar)	Hysteresis (%)	Measuring principle	Switching function	
						NC	NO
0.5 … 2	2	10	± 0.2	15 … 25	Diaphragm	S4130B071001	S4130B071101
1 … 10	10	20	± 0.5			S4130B075001	S4130B075101
10 … 70	70	120	± 3.0		Piston	S4130B127001	S4130B127101
50 … 200	200	300	± 5.0			S4130B083001	S4130B083101

[1] The repeatability refers to 20ºC.

We suggest the suitable protection cap: AZM90X101002.

Model: S4130

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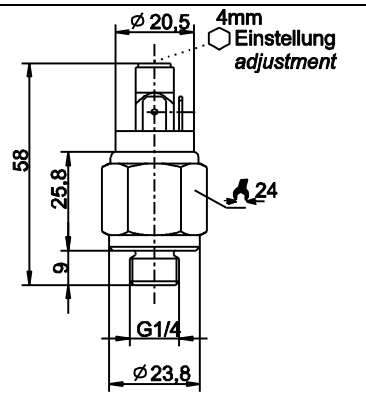
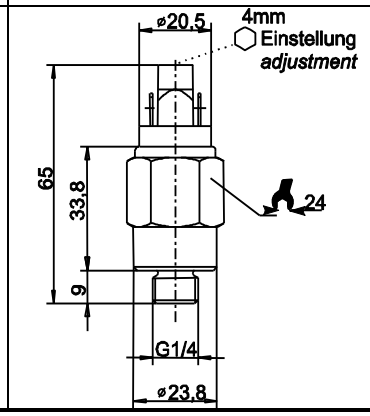
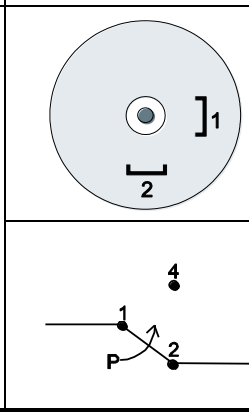
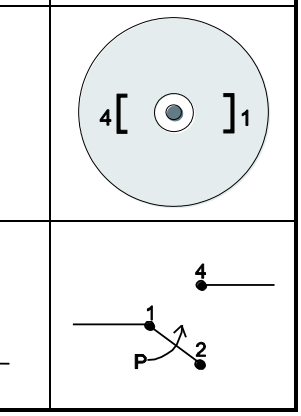
Technical data

	Mechanical pressure switch	
Model	S4130	
Execution	positive gauge pressure	
Media	compressed air, neutral fluid, self-lubricating fluid	
Process connection		
standard	G1/4	
optional	G1/8; others on request	
Measuring principle	≤ 10 bar: spring loaded diaphragm > 10 bar: spring loaded piston	
Materials	Diaphragm type	Piston type
Measuring element		
standard	NBR	Zinc plated steel; PUR
optional	EPDM; FPM; others on request	FPM
Thread		
standard	zinc plated steel	
optional	stainless steel; others on request	
Housing		
standard	zinc plated steel; contact insert plastic	
optional	stainless steel; contact insert plastic	
Switching outputs		
Number	1	
Switching function	NC or NO (SPDT on request)	
Switching element	microswitch	
standard	silver plated contacts	
option	gold plated contacts	
Adjustment		
standard	in site, with adjustment screw	
option	factory adjusted	
Hysteresis	15 ... 25 %	
Power rating[1)]		
DC uo to 42 V	2 A	
up to 110 V	0.5 A	
AC up to 42 V / 250 V	5 A	
Load cycles	max. 200/min	
Temperature ranges	-25 °C … +85 °C	
Electrical connection	flat connectors 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 > 42 V regulation for protective means have to be regarded!

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

Subject to technical alternations