Ready-wired pressure switches hex 24 / hex 27 Customized finishing



- Connector types with different cable lengths according to customer needs for all switches of the hex 24 and hex 27 series.
- Degree of protection according to the connector specification of the manufacturer.
- Adjustable switching points that maintain their setting.
- 0240 / 0241 also adjustable even after sealing.
- Factory pre-set pressure switching points are embossed on the switch body.

Technical explanations

Our pressure switches mostly have a degree of protection IP65. This may not be adequate for all applications. Especially for commercial vehicles, mobile hydraulics and similar applications where IP67 or IP6K9K may be required.

Ready-wired switches offer a maximum of protection against dust and water. This allows that the pressure switch itself can be used in any possible assembly position while the electrical connection can be transfered to climate-wise uncritical and vibration-free places.

SUCO is able to ready-wire all commercially available connectors attaching customized cable lengthes. This not only ensures a great deal of flexibility but also the possibility to supply small quantities without claiming expensive tooling costs.

The technical data of ready-wired pressure switch types are substantially the same as those of the standard types. Differences in the technical data will be agreed with the customer and defined on a customer-specific drawing of the ready-wired pressure switch.

www.suco.de

Ready-wired pressure switches hex 24 / hex 27

Customized finishing

- Many pressure switches series of hex series 24 and 27 can be individually wired according to customer needs.
- Let us advise you.

Standard ranges suitable for ready-wiring



■ SUCO has developed special solutions of pressure switches for pneumatic and gaseous applications.

Please ask for individual technical advice with regard to your special application.

A selection from the wide variety of connectors we can supply

Bayonet-connector acc. DIN 72585	
AMP Junior Timer	
Cannon connector	
AMP Superseal	
Packard connector (Weather Pack 2-wire)	
Packard connector (Weather Pack 3-wire)	
Deutsch connector (DT 06 - 2S)	
Deutsch connector (DT 04 - 2P)	
Deutsch connector (DT 04 - 3P)	

- Further connectors available on request.
- We supply the type and length of cable you need.

0240/0241

Diaphragm / piston pressure switch





- With changeover switch and silver contacts
- Switching point can be adjusted after potting, degree of protection IP67
- Depending on connection, suitable for 42 V or 250 V

CE marking

SUCO pressure switches rated with an operating limit of 250 V are covered by the Low Voltage Directive 73/23/EC.

An EC Declaration of Conformity has been issued for these pressure switches and is on file at our offices. The corresponding switches bear the CE mark in our catalogue.



Degree of protection type IP67

The type approval does not apply without restriction to all environmental conditions. It is the responsibility of the user to check whether the electrical connection complies with regulations other than those stated and whether it can be used for special applications which could not be foreseen by us.

Oxygen warning!

When using oxygen, the relevant safety regulations must be observed. In addition, we recommend that a maximum operating pressure of 10 bar must not be exceeded.

Technical data

Voltage:	max. 42 V / 250 V dependi	ng on connection			
Current:	max. 2 Ampere				
Protection class:	2, protective insulation				
	NBR (Buna-N)	-40°C - +100°C			
Temperature resistance	EPDM	-30°C - +120°C			
of the membrane /	FKM	-5°C - +120°C			
seal materials	Silicone	-40°C - +120°C			
	HNBR	-30°C - +120°C			
Switching frequency:	200 / min.				
Mechanical life expectancy:	10 ⁶ cycles (for diaphragm pressure switches, life expectancy value only applicable for pressures up to max. 50 bar)				
Pressure rise rate:	≤ 1 bar / ms				
Hysteresis:	Average value of 10-20% (r	not adjustable)			
Vibration resistance:	10 g / 5 – 200 Hz sine wave				
Shock resistance:	294 m / s ² ; 14 ms half sine	wave			
Materials:	Zinc-plated steel body Protective cover anodised	aluminium			
Cable:	Standard length 2 m with wire end sleeves				
Degree of protection:	IP67				
Weight in grams:	approx. 100 g				

Diaphragm / piston pressure switches

- Made of zinc-plated steel (Cr VI-free)
- Overpressure safe to 300 / 600 bar¹⁾
- Switching point adjustable during operation
- Safety class 2, safety insulation □

p _{max.} in bar	Adjustment range in bar	Tolerance at room temperature	Thread	Order number:				
0240 Dia	ıphragm pressui	re switches						
		± 0.2	G 1/4	0240	457	03	Χ	003
			NPT 1/8	0240	457	04	Χ	300
	0.3 – 1.5		NPT 1/4	0240	457	09	Χ	305
			7/16-20 UNF	0240	457	20	Χ	310
			9/16-18 UNF	0240	457	21	Χ	315
		± 0.5	G 1/4	0240	458	03	Χ	006
			NPT 1/8	0240	458	04	Χ	301
	1 – 10		NPT 1/4	0240	458	09	Χ	306
			7/16-20 UNF	0240	458	20	Χ	311
1)			9/16-18 UNF	0240	458	21	Χ	316
300 ¹⁾	10 – 20	± 1.0	G 1/4	0240	459	03	Х	009
			NPT 1/8	0240	459	04	Х	302
			NPT 1/4	0240	459	09	Χ	307
			7/16-20 UNF	0240	459	20	Χ	312
			9/16-18 UNF	0240	459	21	Χ	317
			G 1/4	0240	461	03	Х	012
			NPT 1/8	0240	461	04	Х	303
	20 – 50	± 2.0	NPT 1/4	0240	461	09	Х	308
			7/16-20 UNF	0240	461	20	Χ	313
			9/16-18 UNF	0240	461	21	Х	318
02/11 Dict	on pressure swi	tches						

0241 Piston pressure switches

Order number:

			G 1/4	0241	460	03	Χ	003
600 ¹⁾ 50 – 150		NPT 1/8	0241	460	04	Χ	304	
	± 5.0	NPT 1/4	0241	460	09	Χ	309	
		7/16-20 UNF	0241	460	20	Χ	314	
			9/16-18 UNF	0241	460	21	Χ	319
					T	Ti-	T	

Dianhragm / coal material areas of application

Diapnra	gm / seai material – areas of application	<u> </u>			•
NBR	Hydraulic / machine oil, heating oil, air, nitrogen etc.				1
EPDM	Brake fluid, ozone, acetylene, hydrogen etc.				2
FKM	Hydraulic fluids (HFA, HFB, HFD), petrol/gasoline etc.				3
Temperature ranges of diaphragm / seal materials see page 40		I	I	1	Τ

Piston pressure switches are only to a limited extent suitable for use with gases. See explanation on page 9.



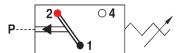


With male thread



Contact assignment:

- 1 = black
- 2 = red
- \bigcirc 4 = white



Options:

024X - XXX XX - X-XXX

- other cable lengths and connectors on request
- fixed pre-set switching point
- We offer other body materials and connecting threads upon request.
- Other diaphragm-/seal materials are available on request, e.g. HNBR or silicone for diaphragm pressure switches.

¹⁾ Static value. Dynamic value is 30-50% lower. The values refer to the hydraulic or pneumatic part of the pressure switch.