

M.3

hex 24

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0167

Diaphragm pressure switches up to 42 V with brass housing

- Brass housing
- M3 screw terminal
- Overpressure safety up to 35 bar¹⁾

Adjustment range tolerance at room temperature	Male thread	Order number NO → :	Order number NC → :
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0167 Diaphragm pressure switches with M3 screw terminal

0.1 – 1 (±0.2) bar	G 1/4	0167 – 401 03 – X – 037	0167 – 402 03 – X – 038
	G 1/8	0167 – 401 28 – X – 001	0167 – 402 28 – X – 002
	R 1/8	0167 – 401 12 – X – 002	0167 – 402 12 – X – 005
	R 1/2	0167 – 401 07 – X – 003	0167 – 402 07 – X – 006
	M 10x1 con.	0167 – 401 01 – X – 001	0167 – 402 01 – X – 004
	NPT 1/8	0167 – 401 04 – X – 004	0167 – 402 04 – X – 008
0.5 – 3 (±0.3) bar	G 1/4	0167 – 421 03 – X – 070	0167 – 422 03 – X – 070
	G 1/8	0167 – 421 28 – X – 070	0167 – 422 28 – X – 070
	R 1/8	0167 – 421 12 – X – 070	0167 – 422 12 – X – 070
	R 1/2	0167 – 421 07 – X – 070	0167 – 422 07 – X – 070
	M 10x1 con.	0167 – 421 01 – X – 070	0167 – 422 01 – X – 070
	NPT 1/8	0167 – 421 04 – X – 070	0167 – 422 04 – X – 070
1 – 10 (±0.5) bar	G 1/4	0167 – 405 03 – X – 041	0167 – 406 03 – X – 042
	G 1/8	0167 – 405 28 – X – 005	0167 – 406 28 – X – 006
	R 1/8	0167 – 405 12 – X – 014	0167 – 406 12 – X – 017
	R 1/2	0167 – 405 07 – X – 015	0167 – 406 07 – X – 018
	M 10x1 con.	0167 – 405 01 – X – 013	0167 – 406 01 – X – 016
	NPT 1/8	0167 – 405 04 – X – 020	0167 – 406 04 – X – 024
10 – 20 (±1) bar	G 1/4	0167 – 409 03 – X – 045	0167 – 410 03 – X – 046
	G 1/8	0167 – 409 28 – X – 009	0167 – 410 28 – X – 010
	R 1/8	0167 – 409 12 – X – 026	0167 – 410 12 – X – 029
	R 1/2	0167 – 409 07 – X – 027	0167 – 410 07 – X – 030
	M 10x1 con.	0167 – 409 01 – X – 025	0167 – 410 01 – X – 028
	NPT 1/8	0167 – 409 04 – X – 036	0167 – 410 04 – X – 040

Seal material – Application areas

NBR	Hydraulic/machine oil, heating oil, air, nitrogen, etc.	1
EPDM	Water, Brake fluid, hydrogen, oxygen, acetylene, etc.	2
EPDM-W270	Drinking water	5
FKM	Hydraulic fluids (HFA, HFB, HFD), petrol/gasoline, etc.	5
Silicone	Water, food products, air, etc.	8

Refer to page 41 for the temperature range and application thresholds of sealing materials.



Your order number: **0167 – XXX XX – X – XXX**

¹⁾ Static value. Dynamic value is 30-50 % lower. Values pertain to the hydraulic/pneumatic part of the pressure switch.

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Pressure switches hex 24

NC or NO, maximum voltage 42 V



- Most cost-effective solution for mechanical pressure monitoring
- Stable switching point even after long use and high load
- Switching point can be adjusted when fitted on site ¹⁾
- High pressure resistance, compact, small switches, available as normally closed (NC) or normally open (NO)
- For solutions with integrated connectors please refer to chapter M.1, starting at page 22

¹⁾ Pressure switches can also be supplied preset at factory.
Our preset switches are sealed with lacquer paint, set points are embossed on the housing.

Pressure switches hex 24

Technical data

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Rated working voltage:	10 ... 42 VAC/DC	
Rated current range (resistive load, 12 DC and 12 AC):	10 mA ... 4 A	
Switching power DC12 / AC12:	100 W / 100 VA	
Temperature resistance of sealing materials:	NBR	-40 °C ... +100 °C
	EPDM	-30 °C ... +120 °C
	EPDM-W270, diaphragm	-20 °C ... +100 °C
	FKM (in diaphragm pressure switch)	-5 °C ... +120 °C
	FKM (in piston pressure switch)	-10 °C ... +120 °C
	Silicone, diaphragm	-40 °C ... +120 °C
	HNBR	-30 °C ... +120 °C
Switching frequency:	200 / min.	
Mechanical life expectancy:	1,000,000 cycles (for diaphragm pressure switches, life expectancy value only applies for switching pressures to max. 50 bar)	
Pressure rise rate:	≤ 1 bar/ms	
Hysteresis:	Average value 5 – 30 % depending on type, not adjustable	
Vibration resistance:	10 g; 5 – 200 Hz sine wave; DIN EN 60068-2-6	
Shock resistance:	294 m/s ² ; 14 ms half sine wave; DIN EN 60068-2-27	
Protection class:	IP65 Terminals IP00	
Weight:	approx. 90 g	

Type:		0163	0164	0166	0167	0168	0169
Material:	Zinc-plated steel (CrVI-free)	●		●		●	●
	Stainless steel		●				
	Brass				●		
Overpressure safety up to:	35 bar				●		
	300 bar			●		●	
	600 bar	●	●				●

