



Mechanical pressure switches hex 30

07.2026



Technical data

0159
0161 / 0162

Temperature resistance of the sealing materials	NBR (in the diaphragm pressure switch)	-40 °C ... +100 °C
	NBR (in the piston pressure switch)	-30 °C ... +100 °C
	EPDM	-30 °C ... +120 °C
	FKM (in the diaphragm pressure switch)	-5 °C ... +120 °C
	FKM (in the piston pressure switch)	-15 °C ... +120 °C
Switching frequency	200 / min	
Mechanical service life	1,000,000 switching cycles (for diaphragm pressure switches) the service life only applies to switching pressure up to max. 50 bar	
Pressure rise rate	1 bar/ms	
Hysteresis	10 ... 30 % (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; DIN EN 60068-2-27	
Housing material	Aluminum	
Protection class	IP65 with fitted cable plug, otherwise IP00	
Weight in grams	Types 0159, 0161, 0162: approx 280 g	
	Typ 0175: approx 310 g	

Electrical values

Typ	0159	0161 / 0162
Rated operating voltage U_e	Rated operating current I_e	
250 VAC 50 / 60 Hz, AC 12	2,5 A	5 A
250 VAC 50 / 60 Hz, AC 14	1 A	1 A
24 VDC, DC 12 / DC 13	2 / 2 A	3,5 / 3,5 A
50 VDC, DC 12 / DC 13	1 / 0,5 A	2 / 1 A
75 VDC, DC 12 / DC 13	0,75 / 0,4 A	1 / 0,5 A
125 VDC, DC 12 / DC 13	0,3 / 0,2 A	0,3 / 0,2 A
250 VDC, DC 12 / DC 13	0,3 / 0,2 A	0,25 / 0,2 A
Rated insulation voltage U_i	300 V	
Rated impulse withstand voltage U_{imp}	4 kV	
Conventional thermal current I_{the}	5 A	
Switching overvoltage	< 2,5 kV	
Rated frequency	DC and 50 / 60 Hz	
Rated current of the short-circuiting device	up to 2,5 A	up to 6,3 A
Conditional short-circuit current	< 350 A	
Tightening torque of the connection screws	< 0,35 Nm	
Connection cross-section	0,5 - 1,5 mm ²	



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hex 30

Simple switching point adjustment with knurled screw

- Switching point adjustable during operation
- Up to max. 250 V
- Changeover switch with silver contacts
- Aluminum housing
- With cable plug similar to DIN EN 175301 (DIN 43650)



P _{max} in bar	Setting range in bar	Tolerance at room temperature in bar	Thread	Item number
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0159 Diaphragm pressure switch

200*	0,2 – 2,0	± 0,2 – 0,3	G 1/4 Internal	0159 - 426 14 - X - 001
	0,5 – 5,0	± 0,2 – 0,5		0159 - 427 14 - X - 001
	1 – 10	± 0,5		0159 - 428 14 - X - 001
	2 – 20	± 1,0		0159 - 429 14 - X - 001
	5 – 50	± 3,0		0159 - 430 14 - X - 001
	10 – 100	± 3,0 – 5,0		0159 - 431 14 - X - 001

0159 Piston pressure switch

600*	10 – 100	± 3,0 – 5,0	G 1/4 Internal	0159 - 432 14 - X - 001
	25 – 250	± 5,0 – 7,0		0159 - 433 14 - X - 001
	40 – 400	± 5,0 – 9,0		0159 - 434 14 - X - 001

Sealing materials – areas of application

NBR	Hydraulic oil, machine oil, air, nitrogen, etc.	1
EPDM	Brake fluid, water, hydrogen, oxygen, acetylene, etc.	2
FKM	Hydraulic fluids (HFA, HFB, HFD), gasoline, etc.	3



Item number:	0159 - XXX 14 - X - 001
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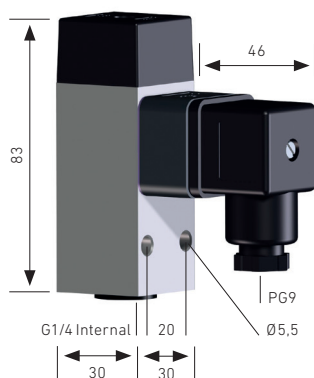
* Static value. Dynamic value 30 to 50% lower. The values refer to the hydraulic or pneumatic part of the pressure switch.

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hex 30

Pressure switch for wall mounting and panel mounting

- Up to max. 250 V
- Changeover switch with silver contacts**
- Aluminum housing
- With cable plug similar to DIN EN 175301 (DIN 43650)



P _{max} in bar	Setting range in bar	Tolerance at room temperature in bar	Connection	Item number
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0161 Diaphragm pressure switch – with female thread (G1/4)

200*	0,5 – 1	± 0,2	G1/4 Internal thread	0161 - 436 14 - X - 001
	0,5 – 5	± 0,2 – 0,5		0161 - 437 14 - X - 001
	1 – 10	± 0,5		0161 - 438 14 - X - 001
	10 – 50	± 1,0		0161 - 439 14 - X - 001
	50 – 100	± 3,0 – 5,0		0161 - 440 14 - X - 001

0161 Piston pressure switch

600*	100 – 400	± 5,0 – 9,0	G1/4 Internal thread	0161 - 441 14 - X - 001
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0162 Diaphragm pressure switch – flange design (with O-ring NBR 5 x 1,5 mm)

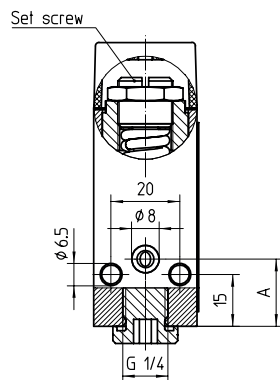
200*	0,5 – 1	± 0,2	Dimension A: 15 mm	0162 - 436 14 - X - 001
	0,5 – 5	± 0,2 – 0,5		0162 - 437 14 - X - 001
	1 – 10	± 0,5		0162 - 438 14 - X - 001
	10 – 50	± 1,0		0162 - 439 14 - X - 001
	50 – 100	± 3,0 – 5,0		0162 - 440 14 - X - 001

0162 Piston pressure switch

600*	100 – 400	± 5,0 – 9,0	Dimension A: 19,5 mm	0162 - 441 14 - X - 001
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Sealing materials – areas of application

NBR	Hydraulic oil, machine oil, air, nitrogen, etc.	1
EPDM	Brake fluid, water, hydrogen, oxygen, acetylene, etc.	2
FKM	Hydraulic fluids (HFA, HFB, HFD), gasoline, etc.	3



Item number:	016X - XXX 14 - X - 001
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* Static value. Dynamic value 30 to 50% lower. The values refer to the hydraulic or pneumatic part of the pressure switch.

** Gold contacts possible on request