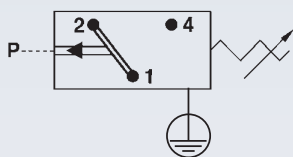


- Made of zinc-plated steel (CrVI-free, other housing materials available as option)
- Socket device similar to DIN EN 175301 (DIN 43650)
- Snap action with silver contacts
- Overpressure safety up to 1,450 / 5,801 psi (100 / 400 bar)¹⁾
- Differential adjustable at factory



Socket device included in the delivery



P _{max.} in psi (bar)	Adjustment range in psi (bar)	Tolerance in psi (bar) at room temperature	Male thread	Order number
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0184 Diaphragm pressure switches

1,450 psi ¹⁾ (100 bar)	4.35 - 21.75 psi (0.3 - 1.5 bar)	± 2.90 psi (± 0.2 bar)	M 10x1 taper	0184 - 457 01 - X - 001
			1/4" BSPP	0184 - 457 03 - X - 003
			1/8" NPT	0184 - 457 04 - X - 318
			1/4" NPT	0184 - 457 09 - X - 314
			7/16-20 UNF	0184 - 457 20 - X - 301
			9/16-18 UNF	0184 - 457 21 - X - 302
	14.5 - 145 psi (1 - 10 bar)	± 7.25 psi (± 0.5 bar)	M 10x1 taper	0184 - 458 01 - X - 040
			1/4" BSPP	0184 - 458 03 - X - 042
			1/8" NPT	0184 - 458 04 - X - 343
			1/4" NPT	0184 - 458 09 - X - 340
			7/16-20 UNF	0184 - 458 20 - X - 341
			9/16-18 UNF	0184 - 458 21 - X - 342
5,801 psi ¹⁾ (400 bar)	145 - 725 psi (10 - 50 bar)	± 43.5 psi (± 3.0 bar)	M 10x1 taper	0184 - 459 01 - X - 007
			1/4" BSPP	0184 - 459 03 - X - 009
			1/8" NPT	0184 - 459 04 - X - 320
			1/4" NPT	0184 - 459 09 - X - 311
			7/16-20 UNF	0184 - 459 20 - X - 305
			9/16-18 UNF	0184 - 459 21 - X - 306
	145 - 1,450 psi (10 - 100 bar)	± 43.5 - 72.5 psi (± 3.0 - 5.0 bar)	M 10x1 taper	0184 - 461 01 - X - 010
			1/4" BSPP	0184 - 461 03 - X - 012
			1/8" NPT	0184 - 461 04 - X - 321
			1/4" NPT	0184 - 461 09 - X - 312
			7/16-20 UNF	0184 - 461 20 - X - 307
			9/16-18 UNF	0184 - 461 21 - X - 308

Seal material – Application areas

NBR (BunaN)	Hydraulic/machine oil, heating oil, air, nitrogen, etc.	1
EPDM	Brake fluid, hydrogen, oxygen, acetylene, etc.	2
FKM(Viton®)	Hydraulic fluids (HFA, HFB, HFD), petrol/gasoline, etc.	3
FFKM	Chemical acids, diluted alkalis, ketones, ester's, alcohols	6
HNBR	Hydraulic/machine oil, ester-based bio-oils	9

Refer to page 33 for the temperature range and application thresholds of sealing materials.



Your order number: 0184 - XXX XX - X - XXX



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

Pressure switches hex 27 with integrated connector

Technical data

M.2
hex 27 integrated



Types:	0132 – 0137	0184 / 0185	0194 / 0195
Rated working voltage:	10 ... 48 VAC/DC	10 ... 250 VAC/DC	5 ... 24 VDC
Rated current: (resistive load, DC12 and AC12)	10 mA ... 4 A	10 mA ... 4A	3 ... 50 mA
Temperature resistance of sealing materials:	NBR (BunaN) (Overpressure safety up to 1,450 psi /100 bar)		-22 °F... +212 °F (-30 °C ... +100 °C)
	NBR (BunaN) (Overpressure safety up to 5,801 psi /400 bar)		-40 °F... +212 °F (-40 °C ... +100 °C)
	EPDM		-22 °F... +248 °F (-30 °C ... +120 °C)
	FFKM (Viton®) (in diaphragm pressure switch)		+23 °F... +248 °F (-5 °C ... +120 °C)
	FKM (in piston pressure switch)		+5 °F... +248 °F (-15 °C ... +120 °C)
	FKM (Viton®)		-4 °F... +248 °F (-20 °C ... +120 °C)
	Silicone		-40 °F... +248 °F (-40 °C ... +120 °C)
	HNBR		-22 °F... +248 °F (-30 °C ... +120 °C)
Burst pressure (diaphragm pressure switch, overpressure resistance 1,450psi)	2,900 psi (200 bar)		
Burst pressure (diaphragm pressure switch, overpressure resistance 1,450psi)	5,801 psi (400 bar)		
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. 725 psi (50 bar))		
Pressure rise rate:	≤ 14.5 psi/ms (≤ 1 bar/ms)		
Differential: (can only be set at factory)	Adjustable average value 10 ... 30 % depending on type		
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		
Weight:	approx. 3.52 oz (100 g)	approx. 4.58 oz (130 g)	approx. 4.58 oz (130 g)

Overview of maximum working voltage and current and contact materials

Type	0132	0133	0134	0135	0136	0137	0184	0185	0194	0195
5 ... 24 VDC									●	●
10 ... 48 VAC/DC	●	●	●	●	●	●				
10 ... 250 VAC/DC							●	●		
3 ... 50 mA									●	●
10 mA ... 4 A	●	●	●	●	●	●	●	●		
Gold contacts	○	○	○	○	○	○			●	●
Silver contacts	●	●	●	●	●	●	●	●		
Adjustable differential (can only be set at factory)	●	●	●	●	●	●	●	●	●	●
Connector type	AMP Superseal 1.5®		M12x1 DIN EN 61076-2-101-A		Deutsch DT04-3P		DIN EN 175301			
Protection class	IP67		IP67		IP67, IP6K9K		IP65			

○ Available as an option



Pressure switches hex 27 with integrated connector

Technical data

M.2
hex 27 integrated



Types:	0132 – 0137	0184 / 0185	0194 / 0195
Rated working voltage:	10 ... 48 VAC/DC	10 ... 250 VAC/DC	5 ... 24 VDC
Rated current: (resistive load, DC12 and AC12)	10 mA ... 4 A	10 mA ... 4A	3 ... 50 mA
Temperature resistance of sealing materials:	NBR (BunaN) (Overpressure safety up to 1,450 psi /100 bar)		-22 °F... +212 °F (-30 °C ... +100 °C)
	NBR (BunaN) (Overpressure safety up to 5,801 psi /400 bar)		-40 °F... +212 °F (-40 °C ... +100 °C)
	EPDM		-22 °F... +248 °F (-30 °C ... +120 °C)
	FFKM (Viton®) (in diaphragm pressure switch)		+23 °F... +248 °F (-5 °C ... +120 °C)
	FKM (in piston pressure switch)		+5 °F... +248 °F (-15 °C ... +120 °C)
	FKM (Viton®)		-4 °F... +248 °F (-20 °C ... +120 °C)
	Silicone		-40 °F... +248 °F (-40 °C ... +120 °C)
	HNBR		-22 °F... +248 °F (-30 °C ... +120 °C)
Burst pressure (diaphragm pressure switch, overpressure resistance 1,450psi)	2,900 psi (200 bar)		
Burst pressure (diaphragm pressure switch, overpressure resistance 1,450psi)	5,801 psi (400 bar)		
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. 725 psi (50 bar))		
Pressure rise rate:	≤ 14.5 psi/ms (≤ 1 bar/ms)		
Differential: (can only be set at factory)	Adjustable average value 10 ... 30 % depending on type		
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		
Weight:	approx. 3.52 oz (100 g)	approx. 4.58 oz (130 g)	approx. 4.58 oz (130 g)

Overview of maximum working voltage and current and contact materials

Type	0132	0133	0134	0135	0136	0137	0184	0185	0194	0195
5 ... 24 VDC									●	●
10 ... 48 VAC/DC	●	●	●	●	●	●				
10 ... 250 VAC/DC							●	●		
3 ... 50 mA									●	●
10 mA ... 4 A	●	●	●	●	●	●	●	●		
Gold contacts	○	○	○	○	○	○			●	●
Silver contacts	●	●	●	●	●	●	●	●		
Adjustable differential (can only be set at factory)	●	●	●	●	●	●	●	●	●	●
Connector type	AMP Superseal 1.5®		M12x1 DIN EN 61076-2-101-A		Deutsch DT04-3P		DIN EN 175301			
Protection class	IP67		IP67		IP67, IP6K9K		IP65			

○ Available as an option

