

Pressure switches hex 27 with integrated connector

Changeover switch with silver or gold contacts



- Large selection of electrical plug-in types for quick attachment and reliable connection
- Hysteresis adjustable at factory
- High protection class (to IP67 or IP6K9K)
- Compact and rugged design in industrial environments like construction and agricultural machinery or commercial vehicles
- Switching point can be set on site with adjusting screw¹⁾
- Very high overpressure safety
- Corresponding mating plugs are available as accessories (please refer to page 34)

¹⁾ Pressure switches can also be supplied preset at factory.
The switching point is embossed onto pressure switches preset at factory.

Pressure switches hex 27 with integrated connector

Technical details

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 / AC12)	10 mA ... 4 A	10 mA ... 4 A	3 ... 50 mA
Temperature resistance of sealing materials:	NBR (diaphragm pressure switch, p _{max} = 400 bar)	-40 °C ... +100 °C	
	NBR (diaphragm pressure switch, p _{max} = 100 bar) (piston pressure switch)	-30 °C ... +100 °C	
	EPDM	-30 °C ... +120 °C	
	FKM (diaphragm pressure switch)	-5 °C ... +120 °C	
	FKM (piston pressure switch)	-15 °C ... +120 °C	
	FFKM	-20 °C ... +120 °C	
	Silicone	-40 °C ... +120 °C	
	HNBR	-30 °C ... +120 °C	
Burst pressure (diaphragm pressure switch, overpressure resistance 100 bar)	200 bar		
Burst Pressure (diaphragm pressure switch, overpressure resistance 400 bar)	700 bar (for threads M10, G 1/8, R 1/8 and NPT 1/8 up to max. 600 bar)		
Burst pressure (Piston pressure switch)	1,000 bar (for threads M10, G 1/8, R 1/8 and NPT 1/8 up to max. 600 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. 50 bar)		
Pressure rise rate:	≤ 1,000 bar/s		
Hysteresis: (can only be set at factory) ¹⁾ :	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. 100 g	approx. 130 g	approx. 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 hysteresis (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

¹⁾ see notes on hysteresis in the technical explanations (page 15-16)



0132 / 0133 / 0134 / 0135 / 0136 / 0137

Diaphragm/piston pressure switches with integrated connector, maximum operating voltage up to 48 V

- Simple, quick and reliable electrical connection with easy-to-fit connectors
- Quick fitting with socket wrench (spanner)
- Changeover with silver contacts (gold contacts available as option)
- Hysteresis adjustable at factory
- Made of zinc-plated steel (CrVI-free, other housing materials available as option)

Model / type ►

Height without thread ►

Contact assignments ►

Circuit diagrams ►

Accessory ►

Not included
in the delivery.

Please order separately.

Cable cross-section / IP protection ►

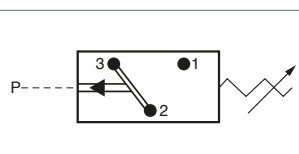
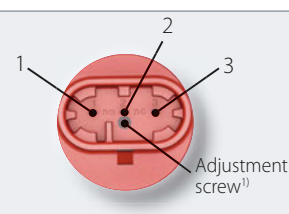
Article number ►

0132 / 0133



TE AMP Superseal 1.5®
IP67

H ≈ 73 mm

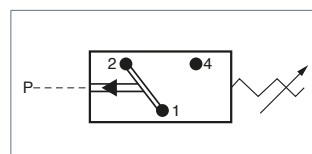
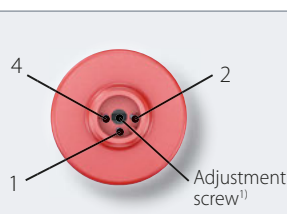


0134 / 0135



M12x1 EN 61076-2-101-A
Contact assignment
DIN 60947-5-2
IP67

H ≈ 65 mm

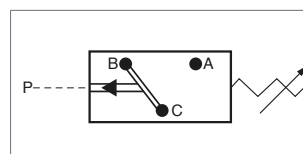
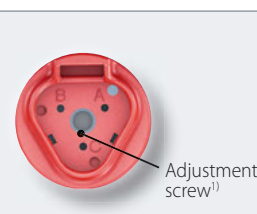


0136 / 0137



Deutsch DT04-3P®
IP67, IP6K9K

H ≈ 71 mm



¹⁾ Blade of screwdriver max. 2 mm

Mating plug with 2 m cable ²⁾

TE AMP Superseal 1.5®



3 x 0,5 mm² Radox cable / IP65

1-1-32-653-158

M 12x1 EN 61076-2-101-LF



4 x 0,34 mm² PUR cable / IP67

1-1-00-653-162

Deutsch DT06-3S®



3 x 0,5 mm² PUR cable / IP67

1-1-36-653-160

²⁾ For the pin assignment of the wires please refer to chapter M.10 Accessories (page 91)

0132 / 0133 / 0134 / 0135 / 0136 / 0137

Diaphragm/piston pressure switches with integrated connector,
maximum operating voltage up to 48 V

M.2
hex 27 integrated



$p_{\max}$ in bar	Adjustment range in bar	Tolerance at room temperature in bar	Thread	Article number
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0132 / 0134 / 0136 Diaphragm pressure switches

100 ¹⁾	0.3 - 1.5	± 0.2	G 1/4	013X - 457 03 - X - 003
			M 10x1 con.	013X - 457 01 - X - 001
			M 12x1.5 cyl.	013X - 457 02 - X - 002
			NPT 1/8	013X - 457 04 - X - 318
			NPT 1/4	013X - 457 09 - X - 314
			7/16-20 UNF	013X - 457 20 - X - 301
			9/16-18 UNF	013X - 457 21 - X - 302
400 ¹⁾	1 - 10	± 0.5	G 1/4	013X - 458 03 - X - 042
			M 10x1 con.	013X - 458 01 - X - 040
			M 12x1.5 cyl.	013X - 458 02 - X - 041
			NPT 1/8	013X - 458 04 - X - 343
			NPT 1/4	013X - 458 09 - X - 340
			7/16-20 UNF	013X - 458 20 - X - 341
			9/16-18 UNF	013X - 458 21 - X - 342
	10 - 50	± 3.0	G 1/4	013X - 459 03 - X - 009
			M 10x1 con.	013X - 459 01 - X - 007
			M 12x1.5 cyl.	013X - 459 02 - X - 008
			NPT 1/8	013X - 459 04 - X - 320
			NPT 1/4	013X - 459 09 - X - 316
			7/16-20 UNF	013X - 459 20 - X - 305
			9/16-18 UNF	013X - 459 21 - X - 306
	10 - 100	$\pm 3.0 - 5.0$	G 1/4	013X - 461 03 - X - 012
			M 10x1 con.	013X - 461 01 - X - 010
			M 12x1.5 cyl.	013X - 461 02 - X - 011
			NPT 1/8	013X - 461 04 - X - 321
			NPT 1/4	013X - 461 09 - X - 317
			7/16-20 UNF	013X - 461 20 - X - 307
			9/16-18 UNF	013X - 461 21 - X - 308

0133 / 0135 / 0137 Piston pressure switches

700 ^{1) 2)}	50 - 200	5.0	G 1/4	013X - 460 03 - X - 003
			M 10x1 con.	013X - 460 01 - X - 001
			M 12x1.5 cyl.	013X - 460 02 - X - 002
			NPT 1/4	013X - 460 09 - X - 303
			7/16-20 UNF	013X - 460 20 - X - 301
			9/16-18 UNF	013X - 460 21 - X - 302

Seal material – Application areas

NBR	Hydraulic/machine oil, air, nitrogen, etc.	1
EPDM	Brake fluid, hydrogen, oxygen, acetylene, etc.	2
FKM	Hydraulic fluids (HFA, HFB, HFD), petrol/gasoline, etc.	3
FFKM	Hot water, chemical acids, diluted alkalis, ketones, esters, alcohols	6
HNBR ³⁾	Hydraulic/machine oil, ester-based bio-oils	9

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



Article number:

013 X - XXX XX - X - XXX

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

²⁾ Excluding the thread sizes G 1/8, R 1/8, NPT 1/8 and M 10x1 cylindrical/conical.

³⁾ HNBR diaphragm not available for pressure ranges 0.3 - 1.5 bar.

