### 0185

### Piston pressure switches up to 250 V

- 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 10,152 psi (700 bar)<sup>1)</sup>
- Differential adjustable at factory

p <sub>max.</sub>	Adjustment range	Tolerance in psi (bar)	Male thread	Order numb
in psi (bar)	in psi (bar)	at room temperature	Wale trireda	Oraci nami

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### **0185** Piston pressure switches

			M 10x1 taper		
1)			1/4" BSPP		
10,152 psi	725 - 2,900 psi	± 72.5 psi	1/8" NPT		
(700 bar) <sup>1)</sup>		(± 5.0 bar)	1/4" NPT		
			7/16-20 UNF		
			9/16-18 UNF		

### 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	
HNBR	Hydraulic/machine oil, ester-based bio-oils	9	

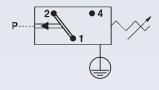
Refer to page 33 for the temperature range and application thresholds of sealing materials.



## hex 27 integrated



Socket device included in the delivery











# Pressure switches hex 27 with integrated connector

Technical data

Types: 0132 - 0137 0184 / 0185 0194 / 0195

Rated working voltage:						
hated working voitage.	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			
	NBR (BunaN) (Overpressure	-22 °F +212 °F (-30 °C +100 °C)				
	NBR (BunaN) (Overpressure	-40 °F +212 °F (-40 °C +100 °C)				
	EPDM	-22 °F +248 °F (-30 °C +120 °C)				
Temperature resistance of sealing materials:	FFKM (Viton®) (in dia	+23 °F +248 °F (-5 °C +120 °C)				
	FKM (in piston pressu	+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 <sup>2</sup> ; 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

Туре	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	0	0	0	0	0	0			•	•
Silver contacts	•	•	•	•	•	•	•	•		
Adjustable differential (can only be set at fact	ory)	•	•	•	•	•	•	•	•	•
Connector type	AMP Superseal 1.5®		M12x1 DIN EN 61076-2-101-A				DIN EN 175301			
Protection class	IF	P67	II	<b>B</b> 7	IP67, I	P6K9K		II	P65	

M.2

hex 27 integrated





## M.2 hex 27 integrated

# Pressure switches hex 27 with integrated connector

Snap action switch with silver or gold contacts



- Large selection of electrical plug-in types for quick attachment and reliable connection
- Differential 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 screw<sup>1)</sup>
- Very high overpressure safety
- Corresponding mating plugs are available as accessories (please refer to page 34)

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