



Membrane Pressure Switch AF27 – Type PDC:

- Snap action micro switch
- 250V / 4A
- Change over contact SPDT
- Elastomer membrane
- Adjustment range: 0,2...16bar
- Max. system pressure 60bar
- Preset ex works possible
- Adjustable hysteresis
- Compact design
- E-connection DIN EN 175301-803A including socket, alternative plug M12x1 or cable outlet

**Order code**

**PDC - A - BBB - C - DE - F**

A	Output	
	1	= SPDT

BBB	Pressure adjustment range	
	002	= 0,2...2bar
	008	= 0,5...8bar
016	= 1...16bar	

C	Membrane	
	M = NBR	-20...+80°C
	T = LowTemperature-NBR	-40...+80°C
	E = EPDM	-40...+100°C
	F = FVMQ	-40...+100°C
V = Viton	0...+100°C	

D	Fluid connection material	
	without	= zinc plated steel
S	= stainless steel 1.4305	

E	Fluid connection	
	1 = G1/8"	R = R1/4"
	3 = G1/4"	D = R1/8"
	H = G1/2"	9 = M10x1
	E = 1/8NPT	K = 7/16-20 UNF
6 = 1/4 NPT		

F	Electrical connection	
	1	= DIN EN 175301-803A incl. socket
	2	= plug M12x1
5	= cable outlet	

**Options**

<b>xx,x bar</b>	set point adjustment increasing or decreasing, factory preset
<b>011041</b>	1,5m cable with socket M12x1

**Order sample: PDC-1-008-M-3-1**

Pressure Switch PDC  
Output: SPDT  
Adjustment range: 0,5...8bar  
Membrane: NBR  
Fluid connection: male G1/4"  
E-connection: DIN EN 175301-803A incl. socket

## Technical data

Construction:	snap action micro switch SW27
Operating fluid:	compressed air, neutral fluids/gases
Mechanical installation:	over fluid connection
Mounting position:	any
Max. system pressure:	60bar
Repeatability:	max. $\pm 2\%$ of full scale at room temperature
Hysteresis*:	guide value: 0,1bar + 5...20% of set point, adjustable
Life cycles, mech.:	$> 2 \times 10^6$
Max. switching frequency:	$\sim 1\text{Hz}$
Temperature range*:	$-40 \dots +100^\circ\text{C}$ as a function of used elastomere
Vibration resistance:	10g (10 ... 2000Hz) sinus acc. to ISO 16750-3
Shock resistance:	30g, 14ms shaped sinus acc. to DIN 40046, T7
Switching element:	snap action micro switch with self cleaning pins
CE-mark:	acc. to EU-standards: 2014/35/EU (LVD), 2011/65/EU (RoHS)
Protection class:	IP65 acc. to DIN EN 60529; IP67 using plug M12x1 or cable outlet
Weight:	$\sim 0,15\text{kg}$

\* please contact the technical support for alternative or special requirements regarding hysteresis and temperature  
Subject to technical alternations!

## Electrical connection data – dimensions

	DIN EN 175301-803A		Plug M12x1		Cable output	
	<b>250VAC</b>	<b>24VDC</b>	<b>48VAC</b>	<b>24VDC</b>	<b>250VAC</b>	<b>24VDC</b>
Ohmic load	4A	4A	4A	4A	4A	4A
Inductive load	2A	2A	2A	2A	2A	2A



Piston Pressure Switch AF27 – Type HDC:

- Snap action micro switch
- 250V / 4A
- Change over contact SPDT
- Piston with PTFE-sealing
- Adjustment range 10...320bar higher on request
- Max. system pressure 350 bar higher on request
- Preset ex works possible
- Adjustable hysteresis
- Compact design
- E-connection DIN EN 175301-803A including socket, alternativ plug M12x1 or cable outlet

**Order code**

**HDC- A - BBB - C - DE - F**

<b>A</b>	<b>Ausgang</b>	
	1 = Wechsler SPDT	

<b>D</b>	<b>Gehäusewerkstoff</b>	
	ohne = Stahl verzinkt S = Edelstahl 1.4305 / ANSI 303	

<b>BBB</b>	<b>Einstellbereich</b>	
	030 = 10...30bar	200 = 20...200bar
	080 = 10...80bar	250 = 20...250bar
	120 = 10...120bar	320 = 30...320bar

<b>E</b>	<b>Fluidanschluss</b>	
	1 = G1/8"	R = R1/4"
	3 = G1/4"	D = R1/8"
	E = 1/8NPT	9 = M10x1
	6 = 1/4 NPT	K = 7/16-20 UNF

<b>C</b>	<b>Kolben mit PTFE + O-Ring</b>	
	K = NBR	-20...+80°C
	T = Tieftemperatur NBR	-40...+80°C
	E = EPDM	-40...+100°C
	F = FVMQ	-40...+100°C
V = Viton	0...+100°C	

<b>F</b>	<b>Elektrischer Anschluss</b>	
	1 = DIN EN 175301-803A inkl. Steckdose	
	2 = Stecker M12x1	
	5 = Kabelausgang	

**Optionen**

<b>xxx bar</b>	Schaltpunkteinstellung steigend oder fallend, werkseitig eingestellt
<b>011041</b>	1,5m Kabel mit Steckdose M12x1

**Order sample: HDC-1-250-K-3-1**

Pressure Switch HDC  
Output: SPDT  
Adjustment range: 20...250bar  
Piston with sealing: PTFE/NBR  
Fluid connection: male G1/4", incl. sealing ring  
E-connection: DIN EN 175301-803A incl. socket

## Technical data

Construction:	snap action micro switch AF27
Operating fluid:	selflubrication fluids (e.g. hydraulic oil), neutral fluids/gases
Mechanical installation:	over fluid connection
Mounting position:	any
Max. system pressure:	350bar
Repeatability:	max. $\pm 2\%$ of full scale at room temperature
Hysteresis*:	guide value: 5bar + 5...15% of set point, adjustable
Life cycles, mech.:	$> 2 \times 10^6$
Max. switching frequency:	$\sim 1\text{Hz}$
Temperature range*:	$-40 \dots +100^\circ\text{C}$ as a function of used elastomere
Vibration resistance:	10g (10 ... 2000Hz) sinus acc. to ISO 16750-3
Shock resistance:	30g, 14ms shaped sinus acc. to DIN 40046, T7
Switching element:	snap action micro switch with self cleaning pins
CE-mark:	acc. to EU-standards: 2014/35/EU (LVD); 2014/68/EU (PED), 2011/65/EU (RoHS)
Protection class:	IP65 acc. to DIN EN 60529; IP67 using plug M12 or cable outlet
Weight:	$\sim 0,15\text{kg}$

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Subject to technical alternations!

## Electrical connection data – dimensions

	DIN EN 175301-803A		Plug M12x1		Cable output	
	<b>250VAC</b>	<b>24VDC</b>	<b>48VAC</b>	<b>24VDC</b>	<b>250VAC</b>	<b>24VDC</b>
Ohmic load	4A	4A	4A	4A	4A	4A
Inductive load	2A	2A	2A	2A	2A	2A

Vaccum Switch AF27 – Type VDC:

- Snap action micro swith
- 250V / 4A
- Change over contact SPDT
- Elastomer membrane
- Adjustment range: -0,85...-0,15bar
- Preset ex works possible
- Adjustable hysteresis
- Compact design
- E-connection DIN EN 175301-803A including socket alternative plug M12x1 or cable outlet

**Order code****VDC - A - BBB - C - DE - F**

A	Output
	1 = SPDT

D	Fluid connection material
	without = zinc plated steel
	S = stainless steel 1.4305

BBB	Pressure adjustment range
	000 = - 0,85...- 0,15bar

E	Fluid connection
	1 = G1/8"
	3 = G1/4"

C	Membrane
	M = NBR -20...+80°C
	T = low temperature-NBR -40...+80°C
	E = EPDM -40...+100°C
	F = FVMQ -40...+100°C
	V = Viton 0...+100°C

F	Electrical connection
	1 = DIN EN 175301-803A incl. socket
	2 = plug M12x1
	5 = cable outlet

**Options**

<b>-0,xxbar</b>	set point adjustment increasing or decreasing, factory preset
<b>011041</b>	1,5m cable with socket M12x1

**Order sample: VDC-1-000-E-3-1**

Vacuum-Switch VDC  
 Output: SPDT  
 Adjustment range: -0,85...-0,15bar  
 Membrane: EPDM  
 Fluid connection: male G1/4" fixed  
 E-connection: DIN EN 175301-803A incl. socket

## Technical data

Construction:	snap action micro swith AF27
Operating fluid:	neutral gases
Mechanical installation:	over fluid connection
Mounting position:	any
Max. system pressure:	20bar
Repeatability:	guide value $\pm 0,05$ bar at room temperature
Hysteresis*:	guide value: 150...350mbar, adjustable
Life cycles, mech.:	$> 2 \times 10^6$
Max. switching frequency:	$\sim 1$ Hz
Temperature range*:	$-40 \dots +100^\circ\text{C}$ as a function of used elastomere
Vibration resistance:	10g (10 ... 2000Hz) sinus acc. to ISO 16750-3
Shock resistance:	30g, 14ms shaped sinus acc. to DIN 40046, T7
Swiching element:	snap action micro swith with self cleaning pins
CE-mark:	acc. to EU-standards 2014/35/EU (LVD); 2011/65/EU (RoHS)
Protection class:	IP65 acc. to DIN EN 60529; IP67 using plug M12 or cable outlet
Weight:	$\sim 0,15$ kg

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Subject to technical alternations!

## Electrical connection data – dimensions

	DIN EN 175301-803A		Plug M12x1		Cable output	
	<b>250VAC</b>	<b>24VDC</b>	<b>48VAC</b>	<b>24VDC</b>	<b>250VAC</b>	<b>24VDC</b>
Ohmic load	4A	4A	4A	4A	4A	4A
Inductive load	2A	2A	2A	2A	2A	2A

Membrane Pressure Switch AF27 – Type MDC:

- Snap action micro switch
- 250V / 4A
- Change over contact SPDT
- Elastomer membrane
- Adjustment range: 1...10bar
- Max. system pressure 200bar
- Preset ex works possible
- Mounted pressure damper 0,33mm
- Compact design
- E-connection DIN EN 175301-803A including socket, alternative plug M12x1 or cable outlet

**Order code****MDC - A - BBB - C - DE - F**

A	Output
	1 = SPDT

BBB	Pressure adjustment range
	005 = 1...10bar other on request

C	Membrane	
	P = NBR	-20...+80°C
	T = LowTemperature-NBR	-40...+80°C
V = Viton	0...+100°C	

D	Fluid connection material
	without = zinc plated steel S = stainless steel 1.4305

E	Fluid connection	
	1 = G1/8"	R = R1/4"
	3 = G1/4"	D = R1/8"
	6 = 1/4 NPT	9 = M10x1
	E = 1/8NPT	K = 7/16-20 UNF

F	Electrical connection	
	1 = DIN EN 175301-803A incl. socket	
	2 = plug M12x1	
	5 = cable outlet	

**Options**

xx,x bar	set point adjustment increasing or decreasing, factory preset
011041	1,5m cable with socket M12x1

**Order sample: MDC-1-005-M-3-1**

Pressure Switch MDC  
Output: SPDT  
Adjustment range: 1...10bar  
High pressure membrane: NBR  
Fluid connection: male G1/4"  
E-connection: DIN EN 175301-803A incl. socket



## Technical data

Construction:	snap action micro switch SW27 with high pressure membrane
Operating fluid:	neutral fluids/gases
Mechanical installation:	over fluid connection
Mounting position:	any
Max. system pressure:	200bar
Repeatability:	max. $\pm 2\%$ of full scale at room temperature
Hysteresis*:	guide value: 0,4bar + 5...20% of set point, adjustable
Life cycles, mech.:	$> 2 \times 10^6$
Max. switching frequency:	$\sim 1\text{Hz}$
Temperature range*:	$-40 \dots +80^\circ\text{C}$ as a function of used elastomere
Vibration resistance:	10g (10 ... 2000Hz) sinus acc. to ISO 16750-3
Shock resistance:	30g, 14ms shaped sinus acc. to DIN 40046, T7
Switching element:	snap action micro switch with self cleaning pins
CE-mark:	acc. to EU-standards: 2014/35/EU (LVD), 2011/65/EU (RoHS)
Protection class:	IP65 acc. to DIN EN 60529; IP67 using plug M12x1 or cable outlet
Weight:	$\sim 0,15\text{kg}$

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Subject to technical alternations!

## Electrical connection data – dimensions

	DIN EN 175301-803A		Plug M12x1		Cable output	
	<b>250VAC</b>	<b>24VDC</b>	<b>48VAC</b>	<b>24VDC</b>	<b>250VAC</b>	<b>24VDC</b>
Ohmic load	4A	4A	4A	4A	4A	4A
Inductive load	2A	2A	2A	2A	2A	2A