



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:	$\sim 0,15\text{kg}$

\* 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