



Piston Pressure Switch AF24 – Type HDL:

- Snap action micro switch
- 48V / 2A, higher on request
- Change over contact SPDT
- Piston with PTFE-sealing
- Adjustment range 10...320bar higher on request
- Max. system pressure 350bar higher on request
- Preset ex works possible
- Small design
- E-connection Faston 6,3x0,8 alternative M12x1, Deutsch 2-pin or cable outlet

**Order code**

**HDL - A - BBB - C - DE - F**

A	Output	
	1 = SPDT	
	6 = normally open NO	
	7 = normally closed NC	

D	Fluid connection material	
	without = zinc plated steel	
	S = Stainless steel 1.4305 / ANSI 303	

BBB	Pressure adjustment range	
	030 = 10...30bar	200 = 20...200bar
	080 = 10...80bar	250 = 20...250bar
	120 = 10...120bar	320 = 30...320bar
	160 = 10...160bar	

E	Fluid connection	
	1 = G1/8"	9 = M10x1
	3 = G1/4"	D = R1/8"
	6 = 1/4NPT	R = R1/4"
	E = 1/8NPT	Z = R3/8"
	K = 7/16-20 UNF	

C	Piston with PTFE + O-ring	
	K = 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	

F	Electrical connection	
	3 = Faston 3x6,3x0,8	
	2 = plug M12x1	
	4 = Deutsch DT04-2P	
	5 = cable output	

**Options**

xxx bar	set point adjustment increasing or decreasing, factory preset
102296	rubber protection cap
011041	1,5m cable with socket M12x1

**Order sample: HDL-1-160-K-3-3**

Pressure Switch HDL  
Output: SPDT  
Adjustment range: 10...160bar  
Piston with sealing: PTFE/NBR  
Fluid connection: male G1/4", incl. sealing ring  
E-connection: Faston 3x6,3x0,8

## Technical Data

Construction:	snap action micro switch AF24
Operating fluid:	selflubricating 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...10% of set point, not adjustable
Life cycles, mech.:	$> 1 \times 10^6$
Max. switching frequency:	max. 100 cycles/min
Temperature range*:	-40...+100°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-standard: 2014/35/EU (LVD), 2014/68/EU (PED), 2011/65/EU (RoHS)
Protection class EN 60529:	IP00 using Faston 6,3x0,8 IP67 using plug M12x1, Deutsch / up to IP68 using cable outlet
Weight:	~0,1kg

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

## Electrical connection data – dimensions

	Faston 6,3x0,8		M12x1		Cable outlet		Deutsch DT04-2P	
	48 VAC	24 VDC	48 VAC	24 VDC	48 VAC	24 VDC	48 VAC	24 VDC
ohmic load	2A	2A	2A	2A	2A	2A	2A	2A
Inductive load	2A	1A	2A	1A	2A	1A	2A	1A