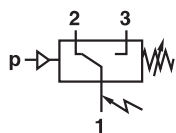


Herion 18D

Pneumatic pressure switches (diaphragm type)

Vac - 435 psi



DIN 43650

Adjustable setpoint

Gold-plated contacts

Vibration resistant to 15 g

Microswitch approved by UL and CSA

Technical data

Medium

Neutral, gaseous and liquid fluids

Operation

Diaphragm

Mounting position

Optional

Operating pressure

Vac to 435 psi

Over pressure

1150 psi

Ambient temperature

-14°F to 175°F (-10°C to +80°C)

Viscosity

Up to 1000 mm²/s (±450 ssu).

Fluid temperature

-14°F to 175°F (-10°C to +80°C)

Repeatability

±3%, for vacuum ±4%

Electrical connection

DIN 43 650

Switching element

Microswitch

Degree of protection

IP 65

Weight

.4 lbs (0.2 kg)

Materials

Housing: aluminum

Seals: Perbunan, Viton

'O'-ring: NBR



Model numbers - pneumatic/lubrication applications

Port size	Type	Pressure range psi (bar)	Switching pressure difference psi* (bar)	Model	Dimension Drawing No.
			lower range	upper range	
1/4 NPT	Female	-14 - 0 (-1 - 0)	2 (0.15)	3 (0.18)	0880120 1
-	Flange	-14 - 0 (-1 - 0)	2 (0.15)	3 (0.18)	0881100 3
1/4 NPT	Female	3 - 30 (0.2 - 2)	2 (0.15)	4 (0.27)	0880220 1
-	Flange	3 - 30 (0.2 - 2)	2 (0.15)	4 (0.27)	0881200 3
1/4 NPT	Female	7 - 120 (0.5 - 8)	4 (0.2)	9 (0.65)	0880320 2
-	Flange	7 - 120 (0.5 - 8)	4 (0.2)	9 (0.65)	0881300 3
1/4 NPT	Female	15 - 230 (1 - 16)	4 (0.2)	13 (0.90)	0880420 2
-	Flange	15 - 230 (1 - 16)	4 (0.2)	13 (0.90)	0881400 3
1/4 NPT	Female	15 - 435 (1 - 30)	15 (1.0)	75 (5.0)	0880620 2

Note: Switches are supplied with DIN 43650 mating connector.

* Switching pressure difference (hysteresis) is not adjustable. Typical valves are shown.

Caution: Observe switching range. Do not subject switch to maximum allowable pressure during normal operation. Even short pressure peaks must not exceed this value.

Herion 18D

Pneumatic pressure switches

Vac - 435 psi

Making And/Or Breaking Capacity

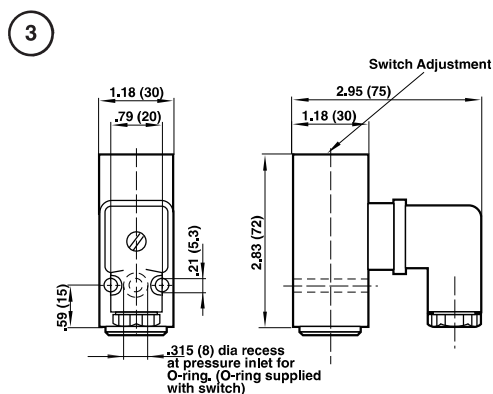
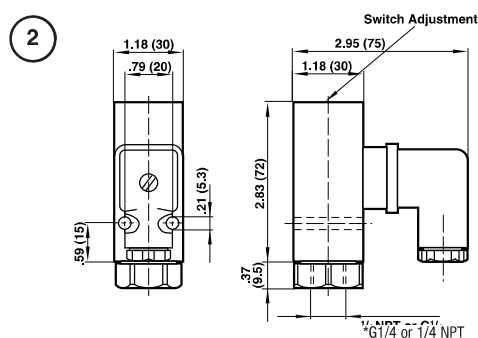
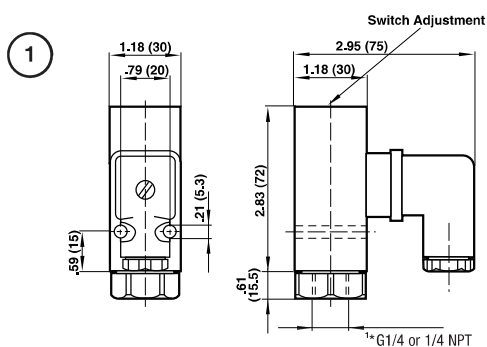
Load Level*	Type of Current	Type of Load	Vmin [V]	Maximum Permanent Current I _{max} [A] at V			Contact life	
				24 V	125 V	250 V	electrical at I _{max}	mechanical at I = 0
Standard (relays, solenoids)	AC	Resistive	12	5	5	5	5 x 10 ⁴ switching cycles	approx 10 ⁷ switching cycles
	AC	Inductive PF = .7	12	3	3	3		
	DC	Resistive	12	5	.4	-		
	DC	Inductive L/R = 10 ms	12	3	.05	-		
Low (electronic circuits)	AC	Resistive	5	.34	.08	.04	2 x 10 ⁵ switching cycles	approx 10 ⁷ switching cycles
	DC	Inductive L/R = 10 ms	5	.1	-	-		

*Load Level Explanation

Series 18D Pressure Switches have microswitch contacts with gold-plating over silver base metal. The gold plating remains intact when "low level" voltage / current levels are observed. This feature assures highly reliable switching in low-level electronic circuits. Standard applications do not require the gold plating – which will decay naturally when switching larger electrical loads.

Notes:

1. Reference conditions: 30 cycles per min and 86°F (30°C) ambient.
2. Reducing load current to 50% of I_{max} approximately doubles contact life.
3. Creepage and clearance distances correspond to insulation group B per VDE Reg. 0110 (except contact clearance of microswitch).



Protective Cover

An optional elastomer cover for protection of the switch adjustment against dirt and splashing liquids Part No. 0554737

