

# Low Range Pressure Switches

The Low Range Pressure Switches are high quality switches designed for a wide range of pneumatic and hydraulic applications. They are easily field adjustable or can be pre-set. With ranges varying between 0.04 -10 bar.



FL - Flying Leads



HC -DIN Plug



SP - Spade Terminal

<b>L1</b>	0.04 - 0.24 bar
<b>L2</b>	0.1 - 1 bar
<b>L3</b>	0.2 - 0.5 bar
<b>L4</b>	0.2 - 1 bar
<b>L5</b>	0.35 - 2 bar
<b>L6</b>	1.0 - 4.4 bar
<b>L7</b>	1.0 - 10 bar
<b>L8</b>	1.75 - 10 bar
<b>L9</b>	3.5 - 10 bar

<b>Electrical</b>	5A (12/24 VDC) - (125/250 VAC) 0.5A available [EU]
<b>Protection</b>	DIN 43650A IP65 - HC, Spade Terminal IP00 - SP, Flying Leads IP65 - FL
<b>Mechanical Life</b>	1,000,000 at 4 bar
<b>Diaphragm Material</b>	Nitrile (standard), Viton and EPDM options.
<b>Housing Material</b>	Brass (standard), Steel, Stainless Steel and Plastic options.
<b>Max. Overpressure</b>	24 bar (some available in Steel 620 and 827 bar)
<b>Repeatability</b>	+/- 2% full set point @20° C
<b>Differential</b>	10-15%
<b>Weight</b>	Up to 0.17kg

## Notes:

- All switches are CE compliant
- Can be supplied with gold contacts for higher accuracy on lower voltage and low currents.
- Viton has a much reduced mechanical life but can withstand higher temperatures
- EPDM is recommended for acidic operations and is not to be used with fuels or oils
- See chemical compatibility chart for more information
- See reverse for instructions on how to adjust pressure switch settings

Diaphragm	Temperature Range
Nitrile	-23° C to 80° C
EPDM	-23° C to 121° C
Viton	-18° C to 121° C

For detailed data sheets on individual switches please contact us

# Low Range Pressure Switches

Follow the ordering system to produce your required pressure switch code

PS	-	XX	-	XX	-	X	-	XX	-	X	-	X	-	X
	RANGES		CONNECTION		SWITCH		EC CONNECTION		BODY		DIAPHRAGM		OTHER	
	0.04 to 0.24	L1	G1/8" Male	2G	Normally Open	A	DIN Plug	HC	Steel	1	Viton	1	0.5 Amp	EU
	0.1 to 1	L2	1/8" NPT Male	2M	Normally Closed	B	Flying Leads	FL	Brass*	2	EPDM	2	Food	F
	0.2 to 0.5	L3	1/8" NPT Female	2F	Change Over	C	Spade Terminal	SP	St.St.	3	Nitrile *	4	Gold Contacts	G
	0.2 to 1	L4	G1/4" Male	4G					Alumin	4	Other	9	Oxy Clean	OX
	0.35 to 2	L5	G1/4" Female	4B					Plastic	5			Piston	P
	1.0 to 4.4	L6	1/4" NPT Male	4M					Other	9			Set 5 bar rise ~	SSR
	1.0 to 10	L7	1/4" NPT Female	4F									Right Angle	RA
	1.75 to 10	L8	Other	X									Adjustable Diaphragm	ADJ
	3.5 to 10	L9												

\* Brass and Nitrile Standard ~ Choose Set Rate - R Rising and F Falling

### Examples:

#### PS-L7-2M-A-SP-2-4 (previously PELA-3-2M-A-SP)

Pressure Switch - 1-10 bar - 1/8" NPT Male - Normally Open - Spade Terminal - Brass Body - Nitrile Diaphragm

#### PS-L8-4G-C-HC-3-2 (previously PDA-4-4G-C-HC-2-3)

Pressure Switch - 1.75 to 10 bar - 1/4" BSP Male - Change Over - DIN Plug - Stainless Steel Body - EPDM Diaphragm

***Please specify maximum working pressure of system***

## How to Adjust Pressure Switch Setting

**Step 1.** Pressurise the switch to the desired setting

**Step 2.** Insert Allen key through the opening on the top centre of the switch

**Step 3.** Turn the Allen key clockwise until the contact changes state, ie. from normally closed or vice-versa.

**Step 4.** Operate the switch through normal cycle & make any necessary adjustment to the setting to compensate for differential. Turn the Allen key clock-wise to increase the setting & counter clock-wise to decrease setting

Standard Electrical Circuit		
Black	1	Common
Green	2	Normally Closed
Red	3	Normally Open