

PRESSURE SWITCH WITH DIGITAL DISPLAY

FIXED SWITCHING POINTS (FACTORY PROGRAMMED)

The dV-1 PS is an intelligent pressure switch that also features digital pressure display. It uses a specially developed Mixed Signal ASIC, giving a resolution of 0,5%. This means that the measuring range is divided into 200 steps. The switch function can be set up to operate at any chosen pressure step level. The dV-1 PS is an extremely compact digital pressure switch combined with a display.

The switch can be supplied with the display units set in bar or PSI.

The two Hi/Lo switching points can be combined to produce built in switch hysteresis or a window function. The switch output achieved in this manner is floating, not subject to wear and can be operated as a make or break contact.

Switching points and mode are factory set.

Switch output status is displayed on an LED located on the front of the pressure switch.

Pressure measurement occurs 4 times per second, at a resolution of 200 points across the measured range.

The devices are either available in the typical daVinci line oval housing or a sturdy metal housing.

The low cost and striking simplicity makes the dV-1 PS pressure switch ideal for high volume production. Customer requests regarding mechanical dimensions/changes (e.g. transducer connection, basic OEM module supply, ...) can be taken into consideration, depending on batch sizes.

dV-1 PS



Display Segments

SPECIFICATIONS

Pressure Ranges bar (abs./rel.)	0...1,99 bar	0...9,95 bar	0...19,9 bar	0...99,5 bar	0...199 bar
Pressure Ranges PSI (abs./rel.)	0...99,5 PSI	0...199 PSI	0...995 PSI		
Display-Resolution	200 points over pressure range				
Overpressure	1,5 x pressure range				
Linearity	1 %FS				
Temperature Range	0...40 °C				
Measuring Interval / Switch Delay	≈ 250 ms				
Supply	8...28 VDC				
Switch Output	PhotoMOS-Relais 40 V / 0,4 A				
Smallest Resolution of Switch Points	≈ 0,5 %FS				
Pressure Connection	Cutting ring/clamping ring, Ø 6 mm (others on request)				
Electrical Connection	Binder (5 pole) or mPm (4 pole)				
Protection	IP 64				
Width x Height x Depth	68 x 70 x 35 mm				
Weight	≈ 100 g				
Optional Accessories	- Protective rubber covering - Front display with customer logo				