

ELECTRONIC PRESSURE SWITCH

SINGLE OR DUAL WITH STAINLESS STEEL DIAPHRAGM

0-145 psi to 0-8700 psi



PSW14 Series



- ✓ Single Switch with Adjustable Hysteresis
- ✓ Dual Switch with Fixed Hysteresis
- ✓ Easy to Program On/Off Set Points
- ✓ Compact Construction
- ✓ Housing Rotates 320° Degrees

Applications

- ✓ OEM Applications in Hydraulic and Pneumatic Systems
- ✓ Automobile Industry
- ✓ Lubricant Monitoring
- ✓ Industrial Control

SPECIFICATIONS

Sensor Element: Piezoresistive silicon or ceramic measuring cell

Wetted Parts: Steel, pass., Al₂O₃

Electronics Housing: Polyamide

Seals: FKM

Operating Elements:

2 easy response pushbuttons

Environmental Rating: IP65

Protection Class: III

Process Connection: 1/4 NPT Male (G1/4 metric optional)

Measurement Ranges:

0 to 145 psi (0 to 10 bar) to

0 to 8700 psi (0 to 600 bar)

Electrical Connection: Plug M12x1, 4-pin

Temperature Effect: 0.002% FS/°C

Temperature Compensation Range:

-10 to 70°C (14 to 158°F)

Repeatability: ±1% full scale

Temperature Range:

Media: -25 to 100°C (-13 to 212°F)

Electronics: -25 to 80°C (-13 to 176°F)

Storage: -30 to 80°C (-22 to 176°F)

Power Supply: 15 to 32 Vdc, reverse polarity protected

Outputs:

Solid State Switching Outputs

PNP Adjustment Range:

Single Switch: Switching point and hysteresis; 0 to 100% full scale

Dual Switch: 0 to 100% switching point, hysteresis fixed at 15%

Switching Maximum: 100 Hz

Contact Rating: 200 mA max, short-circuit protected

Vibration: 10 g/20 to 2000 Hz

Shock: 100 g/11 ms

Dimensions: Approx. 28 x 100 mm (1.1 x 4") without connector/cable assembly

Weight: 100 g (3.5 oz) approx

WIRING LEGEND

| Pin 1 | Pin 2 | Pin 3 | Pin 4 |
|------------------|---------------------|---------------------|--|
| Brown | White | Blue | Black |
| Power supply (+) | Switch 2 output (+) | Switch 1 output (+) | Power supply (-) and switch output (-) |

To Order

SINGLE SWITCHING OUTPUT

| MODEL NO. | ADJUSTABLE RANGE |
|-----------|-------------------------------|
| PSW14A-AN | 0 to 145 psig (0 to 10 bar) |
| PSW14A-BN | 0 to 1450 psig (0 to 100 bar) |
| PSW14A-CN | 0 to 5800 psig (0 to 400 bar) |
| PSW14A-DN | 0 to 8700 psig (0 to 600 bar) |

DUAL SWITCHING OUTPUTS

| MODEL NO. | ADJUSTABLE RANGE |
|-----------|-------------------------------|
| PSW14B-AN | 0 to 145 psig (0 to 10 bar) |
| PSW14B-BN | 0 to 1450 psig (0 to 100 bar) |
| PSW14B-CN | 0 to 5800 psig (0 to 400 bar) |
| PSW14B-DN | 0 to 8700 psig (0 to 600 bar) |

ACCESSORIES

CABLE/CONNECTOR ASSEMBLIES (REQUIRED)

| MODEL NO. | DESCRIPTION |
|--------------------|-----------------------------------|
| M12C-SIL-4-S-F-1.5 | Straight M12 4-pin, 1.5 m (5') |
| M12C-SIL-4-R-F-1.5 | Right-angle M12 4-pin, 1.5 m (5') |

Comes complete with operator's manual.

To order optional G1/4 metric fitting change "N" at end of model number to "G". No added cost.

Ordering Examples: PSW14A-AN, pressure switch with single switching output, 0 to 145 psig adjustable range and M12C-SIL-4-S-F-1.5, connector/cable assembly, straight connector with 1.5 m (5') of cable.

PSW14B-BN, pressure switch with dual switching output, 0 to 1450 psig adjustable range and M12C-SIL-4-R-F-1.5, connector/cable assembly, right-angle connector with 1.5 m (5') of cable.