

NOSHOK

Series

500 CE

MagSwitch



DESCRIPTION

The NOSHOK Mag-Switch is an electronic pressure switch that utilizes proven diaphragm pressure sensing technology coupled with hall effect magnetic field sensing technology and semiconductor switching technology to provide a highly reliable, accurate, repeatable, cost effective pressure switch without mechanical contacts.

NOSHOK Mag-Switches are available with either one or two switch functions of either PNP (positive) output or NPN (negative) output in either N.O. (normally open) or N.C. (normally closed) configurations. The switch points are field adjustable utilizing readily accessible adjustment screws with an adjustment range of 10-100% of full scale value.

NOSHOK Mag-Switches come in a wide variety of pressure ranges to suit a wide variety of applications. The standard electrical connection is a 4 pin M12 x 1 threaded connector.

FEATURES

- Measuring range from 30" vacuum through 15,000 PSIG
- Field adjustable switch points
- Semiconductor switching relays (no mechanical contacts)
- Suitable for direct connection to PLC's
- Integrated LED switching indication
- N.O. or N.C. switching functions
- Positive (pnp) or negative (nnp) switch functions
- Single or dual switch setpoint functions

APPLICATIONS

- Hydraulic and pneumatic systems
- Industrial machinery and machine tools
- Stamping and forming presses
- Pumps and compressors
- Laboratory and test equipment
- HVAC systems
- Medical
- Refrigeration equipment
- Transportation equipment

SPECIFICATIONS

Pressure Ranges	0-30" Hg vac through 15,000 PSI
Proof Pressure	30 PSI & lower5x 60 PSI4x 150 PSI & higher2x
Process Connection	Brass (1/4" NPT standard)
Wetted Parts	Copper Alloy 316 SS above 600 PSI
Case	Brass through 350 PSI Aluminum Anodized 600 PSI and higher
Switching Functions	1 N.O. or 1 N.C. contact standard 2 N.O. or 2 N.C. contacts are optional p-switching or n-switching
Adjustability	Adjustment screw Switching point 10...100% of F.S.
Accuracy & Repeatability	≤ 1% of F.S.
Switching Hysteresis	≤ 10% of F.S.
Power Supply	10...30 VDC
Contact Rating	Max. 100 mA (max. 30 VDC)
Temperature Compens.	32° to 175°F / 0° to 80°C
Range	
Temperature Influence	0.04% full scale/°F
Temperature Ranges	Storage -22° to 175°F/-30° to 80°C Media -5° to 175°F/-20° to 80°C Ambient -5° to 175°F/-20° to 80°C
Environmental	Cable conn. NEMA 6: IP 67 (IEC 529)
Protection	M12x1 conn. NEMA 4: IP 65 (IEC 529)
Electromagnetic Capability	ESD Level 1 Fields (RFI) Level 2 Burst Level 2 Surge Level 2 CE Compliant
Electrical	
Protection Types	Reverse polarity and overvoltage protection
Weight	0.2 lbs. on 400 PSI & below, 0.6 lbs. on 600 PSI & higher