



SERIES 500

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 (npn) 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 & lower 5x 60 PSI 4x 150 PSI & higher 2x
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, unregulated
Contact Rating	Max. 100 mA (max. 30 VDC)
Temperature Compens. Range	32° to 175°F/0° to 80°C
Temperature Effect	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 Protection	Cable conn. NEMA 6: IP 67 (IEC 529) M12x1 conn. NEMA 4: IP 65 (IEC 529)
Electromagnetic Capability per IEC 1000 (EN 50081, EN 50082)	ESD Level 1 Fields (RF) 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

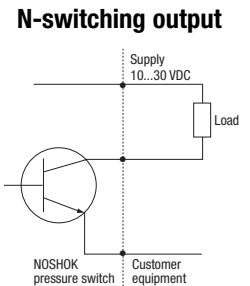
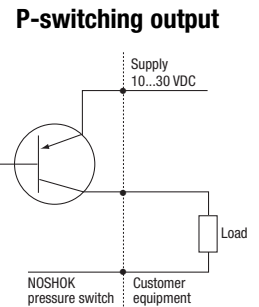
ORDERING INFORMATION								
SERIES 500								
SWITCH FUNCTION	1	1 N.O.-pnp	3	2 N.O.-pnp	5	1 N.O.-npn	7	2 N.O.-npn
	2	1 N.C.-pnp	4	2 N.C.-pnp	6	1 N.C.-npn	8	2 N.C.-npn
PROCESS CONNECTIONS	1	1/8 " NPT Male		2	1/4 " NPT Male			
PRESSURE RANGES	-30 " Hg to 0 psig	30V	0 psig to 150 psig	150	0 psig to 1000 psig	1000	0 psig to 7500 psig	7500
	0 psig to 15 psig	15	0 psig to 250 psig	250	0 psig to 2000 psig	2000	0 psig to 10000 psig	10000
	0 psig to 30 psig	30	0 psig to 350 psig	350	0 psig to 3000 psig	3000	0 psig to 15000 psig	15000
	0 psig to 60 psig	60	0 psig to 750 psig	750	0 psig to 5000 psig	5000		
	0 psig to 100 psig	100						
ELECTRICAL CONNECTIONS	1	5 foot cable			2	4 pin M12x1 connector		
OPTIONS	1	Additional Cable Length (specify length) (available with cable connection only)			ORF	THREADED ORIFICE		
					note:	M12 mating connectors & cordsets are available as separate options. Please refer to price list for details.		

EXAMPLE

Series500
 Switch Function2 N.O. pnp
 Process Connection1/4 " NPT male
 Adjustable Range0 psig to 750 psig
 Electrical Connection4 pin M12 x 1 connector
 OptionsORIFICE

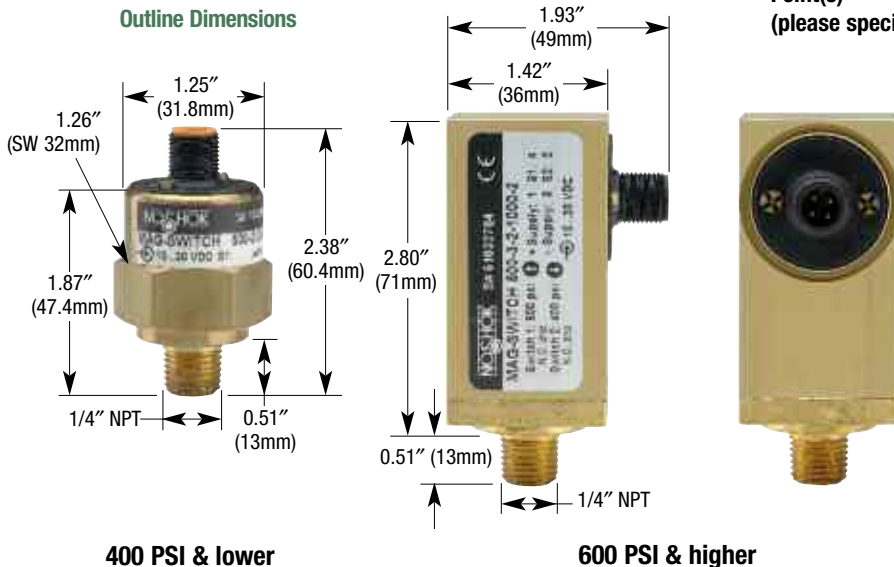
500 - 3 - 2 - 750 - 2 - ORF

Switching Output Schematic



Additional Ordering Information Switch Set Point(s) (please specify)

Outline Dimensions

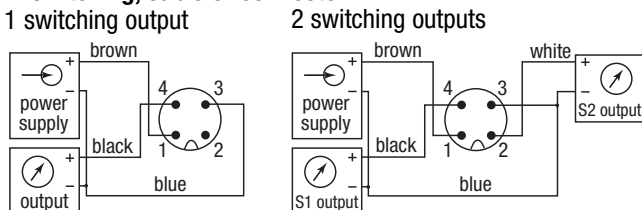


Connection table for 4 PIN M12x1 connector

Function	Connector M12x1
Power supply: +	1 brown
Power supply: -	3 blue
Switching output: S1	4 black
Switching output: S2	2 white

Wiring Diagrams

P-switching, cable or connector



N-switching, cable or connector

