



## 500 SERIES

- Vacuum ranges through 0 psig to 10,000 psig
- Standard copper alloy wetted parts
- Normally open (N.O.) or normally closed (N.C.) switching functions
- CE compliant to suppress RFI, EMI and ESD

### APPLICATIONS

- HVAC
- Hydraulics & pneumatics
- Pumps and compressors
- Stamping & forming presses
- Transportation

### SPECIFICATIONS

<b>Switching parameters</b>	
Number	1 or 2
Function	N.O. or N.C., p-switching or n-switching
Contact rating	Max. 100 mA (max. 30 Vdc)
Non-repeatability	≤ 1% of full scale
<b>Pressure ranges</b>	
Vacuum ranges through 0 psig to 10,000 psig	
<b>Switch adjustment</b>	
Switch point	Adjustment screw Switching point 5 ...100% of full scale
Hysteresis	≤ 5% of full scale
<b>Service life</b>	
>1,000,000 load cycles	
<b>Temperature ranges</b>	
Compensated 32° to 175 °F / 0° to 80 °C Zero ± 0.06% full scale/ °F Span ± 0.06% full scale/ °F Media -5° to 175 °F (-20° to 80 °C) Ambient -5° to 175 °F (-20° to 80 °C) Storage -22° to 175 °F (-30° to 80 °C)	
<b>Power requirement*</b>	
10 Vdc to 30 Vdc	
<b>Proof pressure</b>	
30 psi & lower	5x
60 psi	4x
150 psi & higher	2x
<b>Measuring element</b>	
Copper alloy 316 SS > 600 psi 1/4" NPT Brass connection standard	
<b>Housing material</b>	
Brass through 350 psi Aluminum anodized 600 psi and higher	
<b>Environmental rating</b>	
IP67 for M12 x 1	
<b>Electromagnetic rating</b>	
CE compliant to EMC norm EN 61326:1997/A1:1998 RFI, EMI and ESD protection	
<b>Weight</b>	
0.2 lb. on ≤400 psi, 0.6 lb. on ≥600 psi	

\* Unregulated



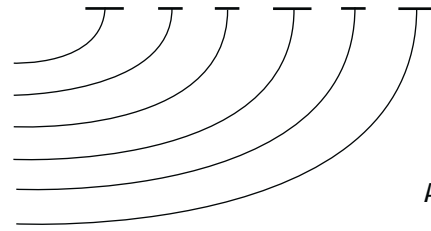
ORDERING INFORMATION				
SERIES	500			
SWITCH FUNCTIONS	1 1 N.O. (PNP)	3 2 N.O. (PNP)	5 1 N.O. (NPN)	7 2 N.O. (NPN)
	2 1 N.C. (PNP)	4 2 N.C. (PNP)	6 1 N.C. (NPN)	8 2 N.C. (NPN)
PROCESS CONNECTIONS	1 1/8" NPT male	2 1/4" NPT male		
PRESSURE RANGES	30vac -30 inHg to 0 psig	150 0 psig to 150 psig	1000 0 psig to 1,000 psig	6000 0 psig to 6,000 psig
	15 0 psig to 15 psig	250 0 psig to 250 psig	1500 0 psig to 1,500 psig	7500 0 psig to 7,500 psig
	30 0 psig to 30 psig	350 0 psig to 350 psig	2000 0 psig to 2,000 psig	
	60 0 psig to 60 psig	600 0 psig to 600 psig	3000 0 psig to 3,000 psig	
	100 0 psig to 100 psig	750 0 psig to 750 psig	5000 0 psig to 5,000 psig	
ELECTRICAL CONNECTIONS	2 M12x1 (4-pin)			
OPTIONS	BT8 Threaded Orifice			
	Note: M12 mating connectors & cord sets are available as separate options.			

Please consult your local NOSHOK Distributor or NOSHOK, Inc. for availability and delivery information.

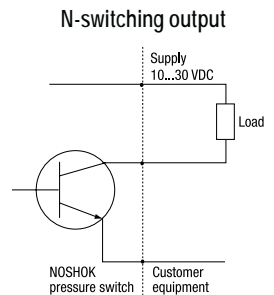
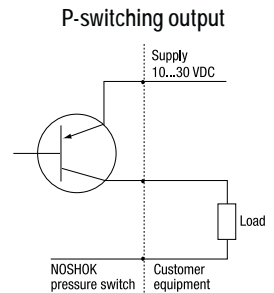
EXAMPLE

Series ..... 500 Series  
 Switch function..... 2 N.O. (PNP)  
 Process connection ..... 1/4" NPT Male  
 Adjustable range ..... 0 psig to 750 psig  
 Electrical connection ..... M12 x 1 (4-pin)  
 Option..... Threaded Orifice

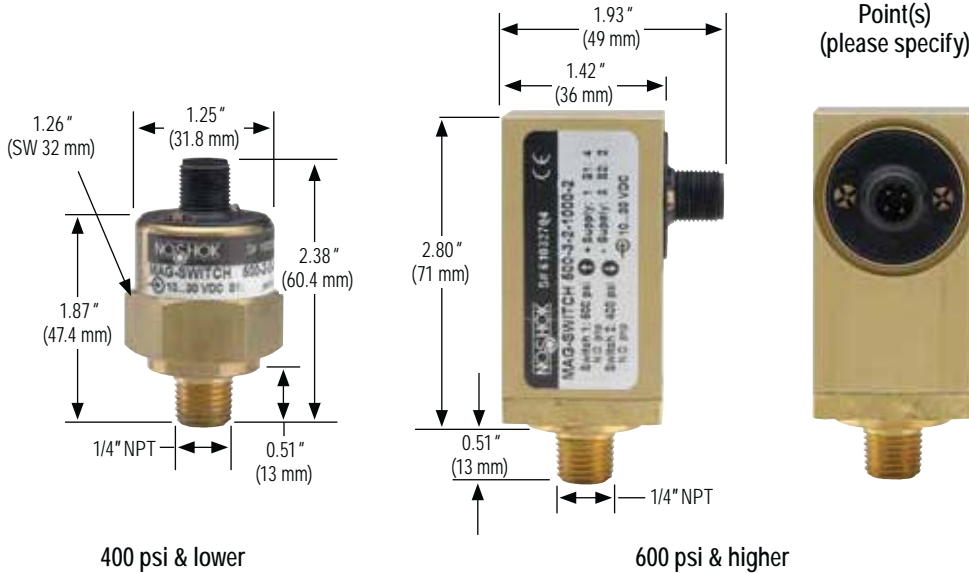
500 - 3 - 2 - 750 - 2 - BT8



Switching Output Schematic



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

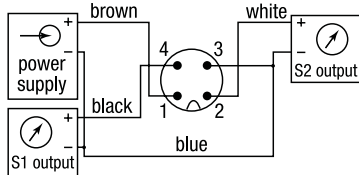
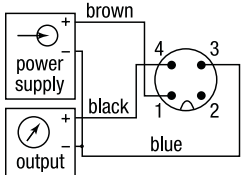


Connection table for M12x1 (4-pin) connector

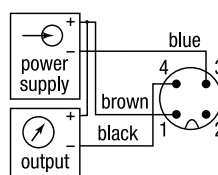
Function	Connector M12 x 1 (4-pin)
Power supply: +	1 brown
Power supply: -	3 blue
Switching output: S1	4 black
Switching output: S2	5 white

Wiring Diagrams

P-switching, cable or connector  
 1 switching output



N-switching, cable or connector  
 1 switching output



2 switching outputs

