## **Mechanical Heavy-Duty Switch**





## **FEATURES**

- Excellent repeatability ±2% of Full Scale
- Robust design with zinc die-cast housing
- 360° Rotatable Male connections ranges ≥ 150/425psi
- Easy to adjust
- High Loadability (shock 30g, vibration 10g)
- IP65 Hirschmann Connector IP67 M 12x1, (4-pin)
- Flange connection (optional)
- LED status indicator (optional)

## **APPLICATIONS**

- Hydraulic systems, including mobile hydraulics
- Pneumatic systems
- Power generation
- Pumps & compressors
- Marine

## SERIES 400

With a stable switching point setting, the robust 400 Series Switch converts pneumatic and hydraulic pressure into switching functions, and is designed for applications requiring maximum accuracy under high loads. It is SPDT, and can be normally open (N.O.) or normally closed (N.C.) depending on the wiring. The switching point is fully adjustable by means of a simple adjustment knob within the adjustment range. It also includes a locking mechanism for switch point adjustment.

The 400 Series Switch is fitted with DIN EN 175301-803 Form A connectors for fast and easy installation. It is also available with an LED indicator on the plug for visual monitoring of the switch status, or an M12  $\times$  1 (4-pin) electrical connection.

SPECIFICATIONS						
Maximum Working Pressure	0 psig to 300 psig through 0 psig to 5,000 psig					
Measuring Element	NBR diaphragm $\leq$ 230 psig Stainless Steel piston with NBR seal $\geq$ 500 psig					
Media	Diaphragm type, compressed air or non-corrosive liquids Piston type, self-lubricating fluids such as hydraulic oil or grease					
Process Connection	1/4" NPT and 7/16-20 SAE standard, others available on request					
Connection Material	Zinc plated steel, stainless steel optional					
Case	Zinc plated steel					
Switching Function	SPDT, micro switch with silver plated self cleaning contacts					
Adjustment	Adjustment knob from 3 psig to 4,600 psig dependent on full scale range					
Hysteresis	Diaphragm type, 1% to 11% of adjustment range full scale Piston type, 2% to 8% of adjustment range full scale					
Repeatability	±2% of Full Scale					
Frequency	Max. 200 cycles/min.					
Contact Rating	Up to 28 VDC - max 4A Up to 250 VAC - max 3A					
Temperature Range	Storage 13° F to 185° F/-25° C to 85° C Media 14° F to 176° F/-10° C to 80° C Ambient 14° F to 176° F/-10° C to 80° C					
Electrical Connection	Hirschmann (DIN EN 175301-803 Form A), M12 x 1 (4-pin available upon request)					
Shock	30 g's per IEC 770					
Vibration	10 g's per IEC 770					
Environmental Protection	NEMA 4: IP65 for Hirschmann NEMA 4X: IP67 for M12 x 1					
CE Certification	Acc. to EU Standard 73/23/EWG					
Weight	Approximately 0.66 lbs					

ORDERING INFORMATION							
SERIES	400						
SWITCH FUNCTION	1 Single Pole Double Throw (SPDT)						
PROCESS CONNECTIONS	2 1/4 " NPT Male	5 1	/4 " NPT Female	<b>10</b> G	G 1/4 B Male		
	<b>19</b> G 1/4 B Female	<b>45</b> 7	/16-20 UNF 2A Male				
SWITCH ADJUSTMENT	3 psig to 30 psig (300 psig)	3/30	150 psig to 1700 p	osig (5000 psig)	150/1700		
RANGE (MAXIMUM	7 psig to 115 psig (300 psig)	7/115	150 psig to 2300 p	osig (5000 psig)	150/2300		
WORKING PRESSURE)	15 psig to 225 psig (300 psig)	15/225	300 psig to 2900 p	osig (5000 psig)	300/2900		
	150 psig to 425 psig (5000 psig)	150/425	300 psig to 3600 p	osig (5000 psig)	300/3600		
	150 psig to 1150 psig (5000 psig)	150/1150	450 psig to 4600 p	osig (5000 psig)	450/4600		
ELECTRICAL CONNECTIONS	1 36 " Cable (connected to option 8)	<b>2</b> M12 x 1 (4-F	rin) 8 Hirschmann (DIN EN 17	75301-803 Form	A) 46 Hirschmann with LED Status Indicator		

Note: Stainless steel connection available, consult factory

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



