Mechanical Heavy-Duty Switch





FEATURES

- Excellent repeatability ±2% of full scale
- Robust design with zinc die-cast housing
- 360° rotatable male connections ranges ≥ 150/425 psi
- Easy to adjust
- High loadability (shock 30g, vibration 10g)
- IP65 Hirschmann connector IP67 M12x1 (4-pin)
- Flange connection (optional)
- LED status indicator (optional)

APPLICATIONS

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

400 SERIES

- · Stable switching point setting
- · Converts pneumatic and hydraulic pressure into switching functions
- Excellent repeatability of ±2% of full scale, designed for applications requiring maximum accuracy under high loads
- Robust design with zinc die-cast housing
- · 360° rotatable male connections
- High loadability (shock 30 g, vibration 10 g)
- SPDT, 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
- Includes a locking mechanism for switch point adjustment
- Hirschmann (DIN EN 175301-803 Form A) with optional 36" cable, or M12 x 1 (4-pin) electrical connection
- Flange connection (optional)
- · LED status indicator (optional)

SPECIFICATIONS							
Maximum working pressure	0 psig to 300 psig through 0 psig to 5,000 psig						
Measuring element	NBR diaphragm ≤ 230 psig Stainless Steel piston with NBR seal ≥ 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 lb.						

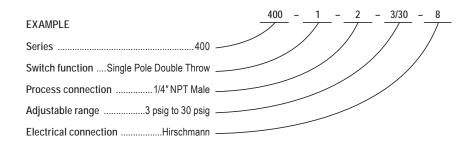
400 SERIES

WIRING DIAGRAMS
ELECTRICAL CONNECTIONS

ORDERING INFORMATION						
SERIES	400					
SWITCH FUNCTION	1	Single Pole Double Throw (SPDT)				
PROCESS CONNECTIONS*	2	1/4" NPT Male	19	G 1/4 B Female		
	5	1/4" NPT Female	45	SAE J1926-3:7/16-20		
	10	G 1/4 B Male				
SWITCH ADJUSTMENT RANGES (MAXIMUM WORKING PRESSURE)	3/30	3 psig to 30 psig (300 psig)	150/1700	150 psig to 1,700 psig (5,000 psig)		
	7/115	7 psig to 115 psig (300 psig)	150/2300	150 psig to 2,300 psig (5,000 psig)		
	15/225	15 psig to 225 psig (300 psig)	300/2900	300 psig to 2,900 psig (5,000 psig)		
	150/425	150 psig to 425 psig (5,000 psig)	300/3600	300 psig to 3,600 psig (5,000 psig)		
	150/1150	150 psig to 1,150 psig (5,000 psig)	450/4600	450 psig to 4,600 psig (5,000 psig)		
ELECTRICAL CONNECTIONS	1	36" Cable (connected to option 8)	8	DIN EN 175301-803 Form A		
	2	M12 x 1 (4-pin)	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.



Outline Dimensions

Switching Output Schematic

