

Mechanical Compact Switch



SERIES 200

The versatile NOSHOK 200 Series Mechanical Pressure Switch is available in a variety of pressure ranges with an SPDT single changeover contact configuration. There is an external adjustment screw for on-site setting of the switch point. The 200 Series Mechanical Switch operates using a high quality diaphragm or piston element to open or close a micro switch. It is available in special versions with stainless steel or brass housing and gold contacts for low switching currents.

FEATURES

- Excellent contact ratings
- Compact size
- External adjustment screw

APPLICATIONS

- Hydraulic systems
- Industrial machinery or machine tools
- Pumps and compressors

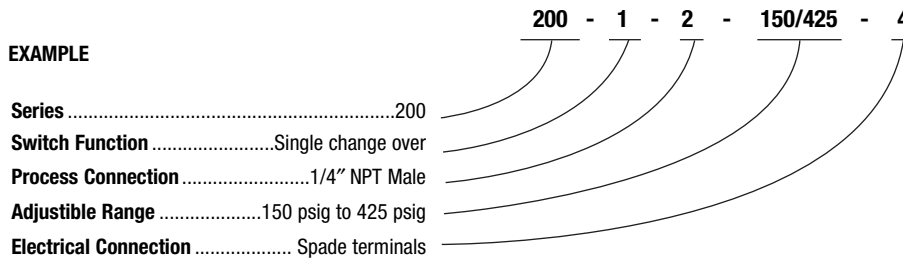
SPECIFICATIONS

Adjustment Ranges	3 psig to 30 psig through 450 psig to 4600 psig	
Measuring Element	NBR diaphragm < 225 psig; Steel piston with NBR seal > 225 psig	
Media	Diaphragm type, compressed air or not corrosive liquids Piston type, self lubricating fluids such as hydraulic oil or grease	
Process Connection	1/4 " NPT standard, others available on request	
Connection Material	Zinc plated steel, optional stainless steel or brass	
Case	Zinc plated steel	
Switching Function	SPDT, micro switch with silver plated contacts, gold plated contacts available on request	
Maximum Working Pressure	Diaphragm Type: 870 psi; Piston Type: 5000 psi	
Hysteresis	Diaphragm type ≤ 10% of full scale adjustment range Piston type Minimum 100 psig, Maximum 15% of full scale adjustment range	
Repeatability	±2% of full scale adjustment range	
Contact Rating	up to 28 VDC	2 A
	up to 50 VAC	4 A
Switch Frequency	Max. 100 cycles/min	
Temperature Ranges	Storage	-4° F to 176° F (-20° C to 80° C)
	Media	-4° F to 176° F (-20° C to 80° C)
	Ambient	-4° F to 176° F (-20° C to 80° C)
Electrical Connection	6.3mm Spade terminals	
Environmental Protection	Spade Terminals	NEMA 0:IP00
	Cable Connection	NEMA 4X:IP67
Weight	Approximately 0.2 lbs	

Special Note: RoHS compliant

ORDERING INFORMATION				
SERIES	200			
SWITCH FUNCTION	1 Single Changeover Contact (SPDT)			
PROCESS CONNECTION	2 1/4" NPT Male			
ADJUSTABLE RANGE <i>(Max. working Pressure)</i>	3 psig to 30 psig (870 psig)	3/30	150 psig to 1700 psig (5000 psig)	150/1700
	7 psig to 115 psig (870 psig)	7/115	150 psig to 2300 psig (5000 psig)	150/2300
	15 psig to 225 psig (870 psig)	15/225	300 psig to 2900 psig (5000 psig)	300/2900
	150 psig to 425 psig (5000 psig)	150/425	300 psig to 3600 psig (5000 psig)	300/3600
	150 psig to 1150 psig (5000 psig)	150/1150	450 psig to 4600 psig (5000 psig)	450/4600
ELECTRICAL CONNECTION	4 6.3mm Spade Terminals		36 24" Integral Cable	

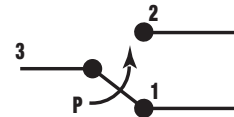
Please consult your local NOSHOK Distributor or NOSHOK, Inc. for availability and delivery information.



Outline Dimensions



Switching Output Schematic





SERIES 300

The NOSHOK 300 Series Mechanical Pressure Switch is constructed with a rugged zinc plated steel housing and process connection, and provides adjustable hysteresis (10-30% of switch point). Utilizing a proven diaphragm or piston type sensing technology, it provides excellent reliability, repeatability, and affordability for use in many applications. The micro switch contacts are silver plated for extended service life and exceptional dependability. Switching functions are field adjustable, while under pressure, and it features an SPDT single changeover contact configuration.

FEATURES

- Measuring ranges from 3 psig to 30 psig through 450 psig to 4600 psig
- Field adjustable switching point
- Diaphragm or piston type sensing element
- Micro-switch technology
- Hirschmann electrical connection

APPLICATIONS

- Hydraulic systems
- Industrial machinery and machine tools
- Stamping and forming presses
- Pumps and compressors

SPECIFICATIONS

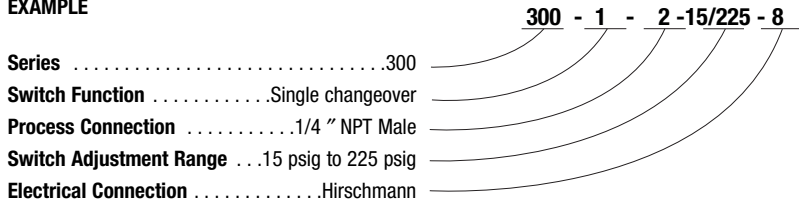
Adjustment Ranges	3 psig to 30 psig through 450 psig to 4600 psig	
Measuring Element	NBR diaphragm < 225 psig; Steel piston with NBR seal > 225 psig	
Media	Diaphragm type, compressed air or not corrosive liquids Piston type, self lubricating fluids such as hydraulic oil or grease	
Process Connection	1/4" NPT standard, others available on request	
Connection Material	Zinc plated steel, optional stainless steel or brass	
Case	Zinc plated steel	
Switching Function	SPDT, micro switch with silver plated contacts, gold plated contacts available on request	
Maximum Working Pressure	Diaphragm Type: 870 psi; Piston Type: 5000 psi	
Hysteresis	Adjustable, 10-30% depending on switch point	
Repeatability	±2% of full scale adjustment range	
Contact Rating	up to 28 VDC	2A
	up to 125 VAC	4A
	up to 250 VAC	4A
Switch Frequency	Max. 100 cycles/min	
Durability	>1,000,000 cycles	
Temperature Ranges	Storage	-4° F to 176° F (-20° C to 80° C)
	Media	-4° F to 176° F (-20° C to 80° C)
	Ambient	-4° F to 176° F (-20° C to 80° C)
Electrical Connection	Hirschmann (DIN EN 175301-803)	
Environmental Protection	NEMA 4:IP65	
Weight	Approximately 0.2 lbs	

Special Note: RoHS compliant

ORDERING INFORMATION				
SERIES	300			
SWITCH FUNCTION	1 Single Changeover contact, SPDT			
PROCESS CONNECTIONS	2 1/4" NPT Male			
SWITCH ADJUSTMENT RANGE (MAXIMUM WORK PRESSURE)	3 psig to 30 psig (870 psig)	3/30	150 psig to 1700 psig (5000 psig)	150/1700
	7 psig to 115 psig (870 psig)	7/115	150 psig to 2300 psig (5000 psig)	150/2300
	15 psig to 225 psig (870 psig)	15/225	300 psig to 2900 psig (5000 psig)	300/2900
	150 psig to 425 psig (5000 psig)	150/425	300 psig to 3600 psig (5000 psig)	300/3600
	150 psig to 1150 psig (5000 psig)	150/1150	450 psig to 4600 psig (5000 psig)	450/4600
ELECTRICAL CONNECTIONS	1 36" Cable (connected to option 8)	8	Hirschmann (DIN EN 175301-803 Form A)	

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

EXAMPLE



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

Outline Dimensions



Switching Output Schematic

