NASHCROFT

Ideal for pressure alarm, shutdown,

• Injection molding machines

Turbines and compressors

Most process applications

• Ashcroft® K Series polysilicon thin

film pressure sensor (transducer)

NPI - Single setpoint with adjustable deadband

NEMA 4, IP66, watertight

10A, 250 Vac 10A, 30 Vdc

10A. 250 Vac

10A, 30 Vdc and 4-20mA

control on:

Presses

Pumps

Machine tools

Hydraulic systems

Special features:

and indication

SPDT Relay

SPDT Relay and

current output

Power Supply 110 Vac, 50/60 Hz

250 Vac, 50/60 Hz **5 - PRESSURE CONNECTIONS**

4 - POWER REQUIREMENTS

24 Vdc

Description

1/8 NPT male

1/4 NPT male

1/8 NPT female

1/4 NPT female

1/2 NPT male

7/16-20 SAE-male

1/4 AMINCO-female

7/16-20 SAE-J514-female

1 - FUNCTION

2 - ENCLOSURE

N4 3 - OUTPUT D

L

Code

С

V

Code

S01

S02

S03

S04

S05

S06

S07

S08

for long, stable life (minimum 1 million cycles at rated load)

- Setpoint repeatability of 0.5% of range
- Watertight, NEMA 4X, IP66 enclosures for safety and reliability
- Pressure setpoints to 20,000 psi
- Deadbands adjustable between 0.1% and 95% of nominal range
- Multi-turn potentiometers make setpoint and deadband adjustments easy
- Status lights indicate switch state
- · Continuous power assures operation first time and every time even after years of inactivity

6 - OPTIONS

Code XEA External adjustment (N4 only)

7 - STANDARD PRESSURE RANGES								
Range psi	Setpoint ⁽¹⁾ Limits psi	Proof psi	Burst psi					
60	3-60	120	480					
100	5-100	200	800					
200	10-200	400	1600					
300	15-300	600	2400					
500	25-500	1000	4000					
750	35-750	1500	6000					
1000	50-1000	2000	8000					
2000	100-2000	4000	16,000					
3000	150-3000	4500	15,000					
5000	250-5000	7500	25,000					
7500	375-7500	9000	22,500					
10,000(2)	500-10,000	12,000	30,000					
15,000(2)	750-15,000	18,000	45,000					
20,000(2)	1000-20,000	24,000	60,000					

(1) Switch setpoint is adjustable throughout these limits.

(2) Pressure connection S07 only on these ranges.

NOTES:

Temperature Specifications (70°F ref.)

-20°F to 160°F ambient and process Setpoint shift of up to 2% of range per 50°F change can be expected

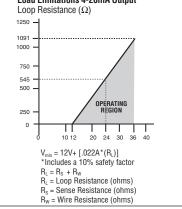
TO ORDER THIS N-SERIES PRESSURE SWITCH:							
Select:	NPI	N4	D	Ļ	S02	XEA	100#
1. Function:							
2. Body:							
3. Electrical Output:							
4. Power Requirements:							
5. Pressure Port:							
6. Options (see table 6):							
7. Pressure Range (see table 7):							

Consult factory for guidance in product selection Phone (203) 385-0217, Fax (203) 385-0602 or visit our web site at www.ashcroft.com

Electronic Pressure Switches, Watertight Enclosure with **Pressure Indication, N-Series**



OPTIONAL TRANSMITTER	SPECIEICATIONS					
PERFORMANCE CHARACT						
Accuracy Class (F.S.):	1%					
Nonlinearity	<u></u>					
Terminal Point*	±0.7%					
B.F.S.L.	±0.4%					
Hysteresis	±0.2%					
Nonrepeatability	±0.07%					
Interchangeability	±1.0%					
*Includes hysteresis						
Stability: ±0.5% F.S./year						
Durability: 108 cycles 20/80	0% F.S. with negligible					
performance change	0.0					
Response Time: Less than	5msec					
ENVIRONMENTAL CHARAC	TERISTICS					
Temperature Limits:						
Storage	-65/+250°F					
Operating	-20/+180°F					
Compensated	-20/+160°F					
Thermal Coefficients (70°F	⁻ ref.):					
Accuracy Zero and S	pan					
1% ±0.040% F.S	3./°F					
ELECTRICAL SPECIFICATIO	INS					
Output Signal: Supply Volta						
4-20mA (2 wire)12-36 Vdc unregulated						
Reverse wiring protected.						
Zero Offset: ±1.0%F.S.						
Load Limitations 4-20mA Output						
Loop Resistance (Ω)						
1250 —						



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Transducers & Transmitters

