NASHCROFT

Special features:

- Ashcroft[®] K Series polysilicon thin film pressure sensor (transducer) for long, stable life (minimum 1 million cycles at rated load)
- Setpoint repeatability of 0.5% of range
- Choice of watertight, NEMA 4 or explosion-proof NEMA 7/9, 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

1 - FUNCTION

NPA - Single setpoint with adjustable deadband 2 - ENCOSURE

Z - LINU	USUNL .			
N4	NEMA 4, IP66, watertight			
N7	NEMA 7/9, IP66, e	NEMA 7/9, IP66, explosion proof		
3 - OUT	PUT			
D	SPDT Relay	10A, 250 Vac 10A, 30 Vdc		
	SPDT Relay and current output	10A, 250 Vac 10A, 30 Vdc and 4-20mA		
4 - POV	VER REQUIREMENT	S		
Code	Power Supply			
L	110 Vac, 50/60 Hz			
C V	24 Vdc 250 Vac, 50/60 Hz			
5 - PRE	SSURE CONNECTIO	NS		
Code	Description			
S01	1/8 NPT male			
S02	1/4 NPT male			
S03	1/8 NPT female			
S04	1/4 NPT female			
S05	^{7∕16} -20 SAE-male			
S06	1/2 NPT male			
S06 S07 S08	1/2 NPT male 1/4 AMINCO-female 1/16-20 SAE-J514-1			

- Status lights indicate switch state
- Continuous power assures operation first time and every time even after years of inactivity

Ideal for pressure alarm, shutdown, control on:

- Machine tools
- Injection molding machines
- Presses
- Pumps
- Hydraulic systems
- Turbines and compressors
- Most process applications

6 - OPTIONS

Code Description

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			

Switch setpoint is adjustable throughout these limits
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

NPA	N4	D	Ļ	SQ2	XEA	100#

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 or Explosion-Proof Enclosure, N-Series



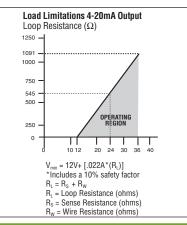
OPTIONAL TRANSMITTER SPECIFICATIONS

PERFORMANC Accuracy Clas	CE CHARACTERISTICS s (F.S.):	1%
Nonlinearity	- (-)	
Terminal Poi	nt*	±0.7%
B.F.S.L.		±0.4%
Hysteresis		±0.2%
Nonrepeatabili	ty	±0.07%
Interchangeab	ility	±1.0%
*Includes hyst	eresis	
Stability: ±0.5	% F.S./year	
Durability: 10 ⁸ performance c	³ cycles 20/80% F.S. wit hange	h negligible:
Response Tim	e: Less than 5msec	
	TAL CHARACTERISTICS	s
Temperature L		-
Storage	-65/+2	50°F
Operating	-20/+1	80°F
Compensated	-20/+1	60°F
Thermal Coeff	icients (70°F ref.):	
<u>Accuracy</u>	Zero and Span	
10/		

1% ±0.040% F.S./°F ELECTRICAL SPECIFICATIONS Output Signal: Supply Voltage:

4-20mA (2 wire)12-36 Vdc unregulated **Reverse wiring protected**.

Zero Offset: ±1.0%F.S.



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