



### N-Series Electronic Pressure Switches

#### IDEAL FOR PRESSURE ALARM, SHUTDOWN, CONTROL ON -

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

Ashcroft® N-Series electronic pressure switches have proven reliable in the toughest industrial applications. The pressure sensor is a standard Ashcroft K-Series thin film transducer. The signal developed in the transducer is processed on a conformal coated printed circuit board to produce an output to a high quality electromechanical relay, which is rated for 10,000,000 cycles at rated load! The result is a long lasting pressure switch that will outlast mechanical switches in high cycle applications such as metal stamping presses, plastic injection molding machines, and other machine tool and special equipment. N-Series also features narrow, adjust-able deadbands that can be adjusted to less that 0.5% of range, solving many pipeline and elevated tank applications that are out of the reach of mechanical products.

The indicating model is ideally suited for applications where both a pressure indicator and a switch output for alarm, shutdown, control or interlock are needed. Sludge and slurry applications in wastewater and pulp and paper mills often require costly diaphragm seals to isolate instruments from the clogging effects of the process. You can save money by installing N-Series with indication on a single seal. You can even set the switch set and reset points on a test bench without pressure on the system, using the indicator and status lights. Look for these additional features.

#### PERFORMANCE SPECIFICATIONS

Ashcroft Model: N-Series	
Accuracy Class (F.S.):	<u>1.0%</u>
Nonlinearity	
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 non-cu	mulative
Durability: 108 cycles 20/80% F.S	. with negligibl

Durability: 10<sup>8</sup> cycles 20/80% F.S. with negligible performance change

Response time: Less than 5m sec

#### ENVIRONMENTAL CHARACTERISTICS Temperature Limits:

Storage	-65/+250°F	
Operating	-20/+180°F	
Compensated	-20/+160°F	
Thermal Coefficients (70°F ref.):		
Accuracy	Zero and Span	
1.0%	±0.040% F.S./°F	

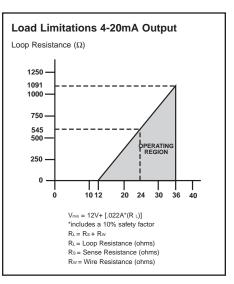
#### **ELECTRICAL SPECIFICATIONS**

 Supply Voltage:

 4-20mA (2 wire)
 36 Vdc unregulated

 Reverse polarity protected.

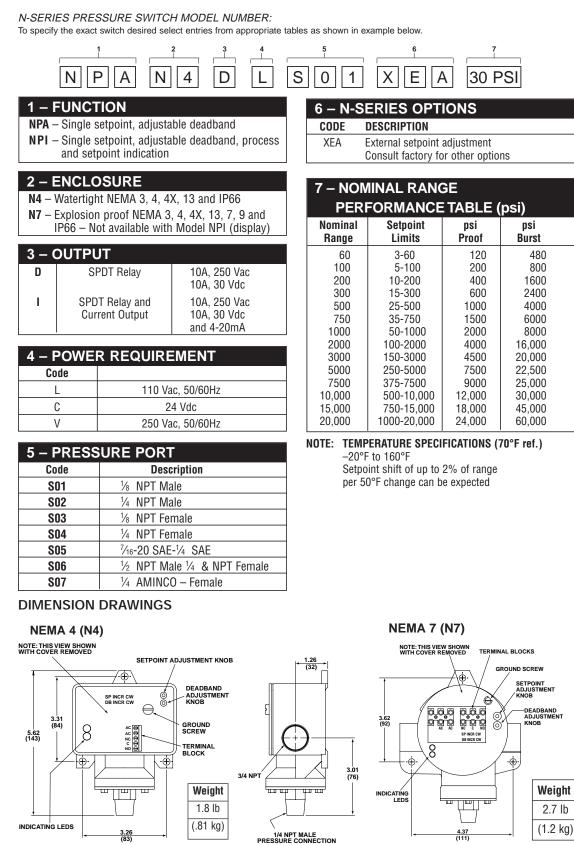
 Zero Offset: ±1.0%F.S.



ISO 9001 REGISTERED FIRM

# **ASHCROFT**®

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3/4 NPT FEMALE 3.96

1.25 (32)

1/4 NPT MALE PRESSURE CONNECTION 6.55 (166)

3.67