

## Pressure Transmitter NCP5A2

The NCP5 Series Pressure Transmitter utilizes a high-precision silicon piezoresistive sensor to convert pressure signals into a 0.5~4.5 VDC output. With advanced media isolation, temperature compensation, and nonlinearity correction technologies, the NCP5 delivers excellent performance, strong media compatibility, and superior environmental adaptability. It is widely used in applications such as railway systems and industrial control for pneumatic, hydraulic, and steam pressure monitoring.

### Parameters

#### Operating Parameters

- Measurement Range: 0~250Psia
- Measured Media: Liquids, gases, or steam compatible with stainless steel
- Output Signal: 0.5~4.5VDC
- Supply Voltage:  $5 \pm 0.25$  VDC
- Operating Current:  $\leq 20$ mA
- Overpressure Limit:  $\geq 500$ Psia
- Burst Pressure:  $\geq 1250$ Psia
- Max Output Impedance: 100 $\Omega$
- Operating Temperature Range: -40°C~+125°C
- Compensated Temperature Range: -20°C~+105°C
- Insulation Resistance:  $\geq 20$ M $\Omega$ @500VDC (between external wiring and housing)
- Dielectric Strength: 500VAC/50 Hz/1min (leakage current $\leq 1$ mA)

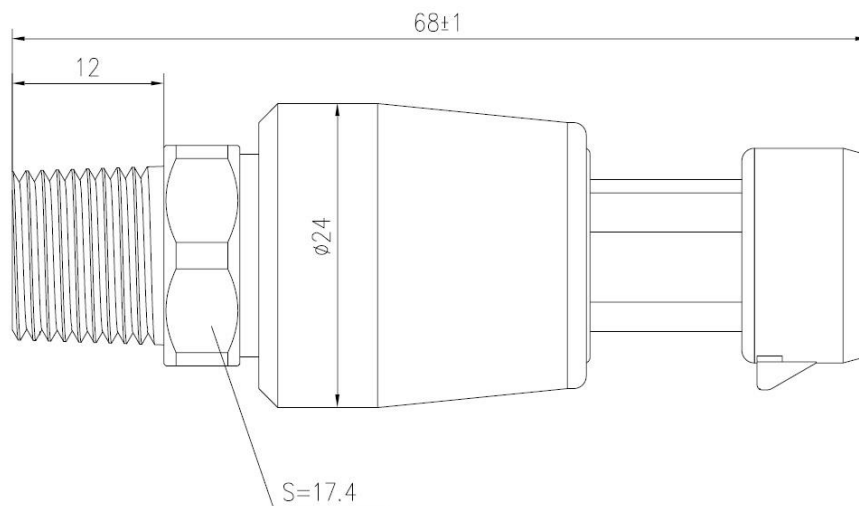
#### Accuracy & Dynamic Performance

- Accuracy:  $\pm 1\%$ FS
- Non-Linearity:  $\leq 0.5\%$ FS
- Hysteresis:  $\leq 0.25\%$ FS
- Repeatability:  $\leq 0.25\%$ FS
- Long-term Stability:  $\leq 0.1\%$ FS

## General Data

- Ingress Protection: IP68
- Housing Material: SUS316 stainless steel
- Protection Features: Reverse polarity protection & short-circuit protection
- Vibration & Shock Resistance: Compliant with GB/T 21563
- Electromagnetic Compatibility (EMC): Compliant with IEC 61000

## Outline & Interface



- Mounting Interface: R1 1/4"
- Electrical Connector: 3-pin Packard connector, 3-wire system

## PIN Configuration

PIN-A	Vcc
PIN-B	GND
PIN-C	Signal Output

## Notes

- Ensure usage conditions remain within specified limits.
- Prior to installation, ensure pressure lines are clean and free from residue.
- Allow sufficient clearance around the unit for installation and maintenance.
- Do not exceed rated pressure range.
- Avoid contact with the sensor diaphragm using hard or sharp objects.
- Do not tighten or loosen the transmitter under pressure.
- Ensure the transmitter is securely installed before operation.