



## WORLD CLASS PERFORMANCE

The PP Series' pressure transducers allow for the best control in an industrial system. A piezo-resistive technology has been selected, whereby the strain gauges are glass fused onto a metal membrane and hermetically sealed.

Sensata Technologies is the world's leading supplier of sensors and controls across a broad range of markets and applications.

## PP Series

# Microfused Strain Gauge Pressure Transducer

### Features and benefits

- Accurate operation over a wide temperature range
- High resistance to vibration and electromagnetic interferences
- Inherent hermetic structure for unparalleled media resistance
- ECE-R110 (CNG) approved versions

### Typical applications

- Air conditioning and refrigeration
- Alternative energy management
- CO<sub>2</sub> compressors
- Hydraulics and pneumatics
- Off-road - and specialty vehicles (including brake pressure, vehicle stability control, diesel common rail, transmission and electro-hydraulics)

### Technical specifications

#### Pressure range

0 to 35 through 0 to 2200 bar rel  
(0 to 500 through 0 to 32,000 psig)

#### Physical

Proof pressure..... $\geq 2x$  operating pressure  
 Burst pressure..... $\geq 3x$  operating pressure  
 Cycle life (Full scale)..... $\geq 10$  million cycles  
 Vibration (50 to 2000 Hz).....20 to 60 g sine  
 Drop (any axis).....1.5 m

#### Pressure connection\*

- Male screw threads, snap fit
- Electrical connection\*
- LFF: Packard Metri-Pack (IP65), VDA (IP67), Sicma (IP67), AMP MQS (IP67), AMP EJII
- SFF: Springs

#### Performance

Accuracy (Full scale pressure)..... $\pm 1.1$  to  $\pm 1.3$  %  
 (static error band at 25 °C span including linearity, hysteresis, repeatability, calibration)  
 Output response time..... $\leq 10$  ms  
 Operating temperature.....-40 °C to 135 °C  
 Storage temperature.....-40 °C to 150 °C

#### Electrical

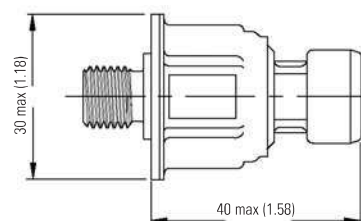
Supply voltage.....4.5 to 5.5 Vdc  
 Output signal.....0.5 to 4.5 Vdc  
 Supply current.....15 mA max  
 EMC (1 MHz to 4 GHz).....200 V/m  
 ESD (ISO 10605).....8 kV  
 Protection

- Overvoltage.....16 Vdc
- Reverse voltage.....-14 Vdc
- Short circuit

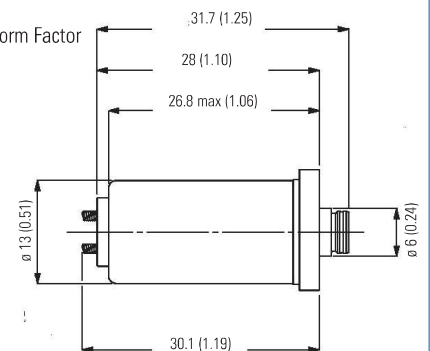
\* view charts on reverse

### Dimensional drawing

Large Form Factor (LFF)



Small Form Factor (SFF)



Note: Dimensions shown in mm (inches)