



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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*Representative photograph,  
actual product appearance  
may vary.*

*Due to regional agency  
approval requirements,  
some products may not be  
available in your area.  
Please contact your  
regional Honeywell office  
regarding your product of  
choice.*

## SX30DN

**Pressure Sensors: Measurement Type: Differential, Gauge; 0  
psid to 30 psid, Unamplified, "N" Package - Straight Port**

### Features

- Low Cost
- High-Impedance Bridge
- Absolute and Differential (Gauge)
- Low Noise
- Low Power Consumption for Battery Power

### Typical Applications

- Medical
- Instrumentation
- Barometric
- Measurement
- Pneumatic Controls
- Battery Powered Equipment

### Description

The SX Series pressure sensors provide the lowest cost components for measuring pressures up to 150 psi. These sensors are designed for use with non-corrosive, non-ionic media, such as air and dry gases. Convenient pressure ranges are available to measure differential, gauge, and absolute pressures from 0 psi to 1 psi (SX01) up to 0 psi to 150 psi (SX150).

The Absolute (A) devices have an internal vacuum reference and an output voltage proportional to absolute pressure. The differential (D) devices allow application of pressure to either side of the diaphragm and can be used for gauge or differential pressure measurements.

This product is packaged in either the standard low cost chip carrier "button" package, a plastic ported "N" package, or a DIP package.

All packages are designed for applications where the sensing element is integral to the OEM equipment. These packages can be o-ring sealed, epoxied, and/or clamped onto a pressure fitting. A closed-bridge four pin SIP configuration is provided for electrical connection to the "Button" or "N" Package. The DIP Package mounts on a PC board like a standard IC with through-hole pins. This extremely small size package enables the use of multiple sensors in applications with limited space.



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Product Specifications	
<b>Measurement Type</b>	Gage, Differential
<b>Signal Conditioning</b>	Unamplified
<b>Pressure Range</b>	0 psid to 30 psid
<b>Maximum Overpressure</b>	90 psi
<b>Supply Voltage</b>	12 Vdc max.
<b>Compensated</b>	No
<b>Output Calibration</b>	No
<b>Response Time</b>	100 $\mu$ S
<b>Termination</b>	PCB
<b>Port Style</b>	Straight
<b>Package Style</b>	N
<b>Typical Sensitivity</b>	0.75 mV/V/psi
<b>Full Scale Span</b>	75 mV min., 110 mV typ., 150 mV max.
<b>Zero Pressure Offset</b>	-35.0 mV min., -20.0 mV typ., 0.0 mV max.
<b>Linearity, Repeatability &amp; Hysteresis Error</b>	- 0.5 min., 0.2 typ., 0.5 max. % Full Scale Span
<b>Repeatability</b>	0.5 % span
<b>Input Resistance</b>	4.1 kOhms typ.
<b>Output Resistance</b>	4.1 kOhms typ.

<b>Operating Temperature Range</b>	-40 °C to 85 °C [-40 °F to 185 °F]
<b>Storage Temperature Range</b>	-55 °C to 125 °C [-67 °F to 257 °F]
<b>Media Compatibility</b>	Clean, dry gases only
<b>UNSPSC Code</b>	411121
<b>UNSPSC Commodity</b>	411121 Transducers
<b>Comment</b>	Lead Temperature Soldering 2 s to 4 s at 250 °C [482 °F]
<b>Availability</b>	Global
<b>Series Name</b>	SX Series

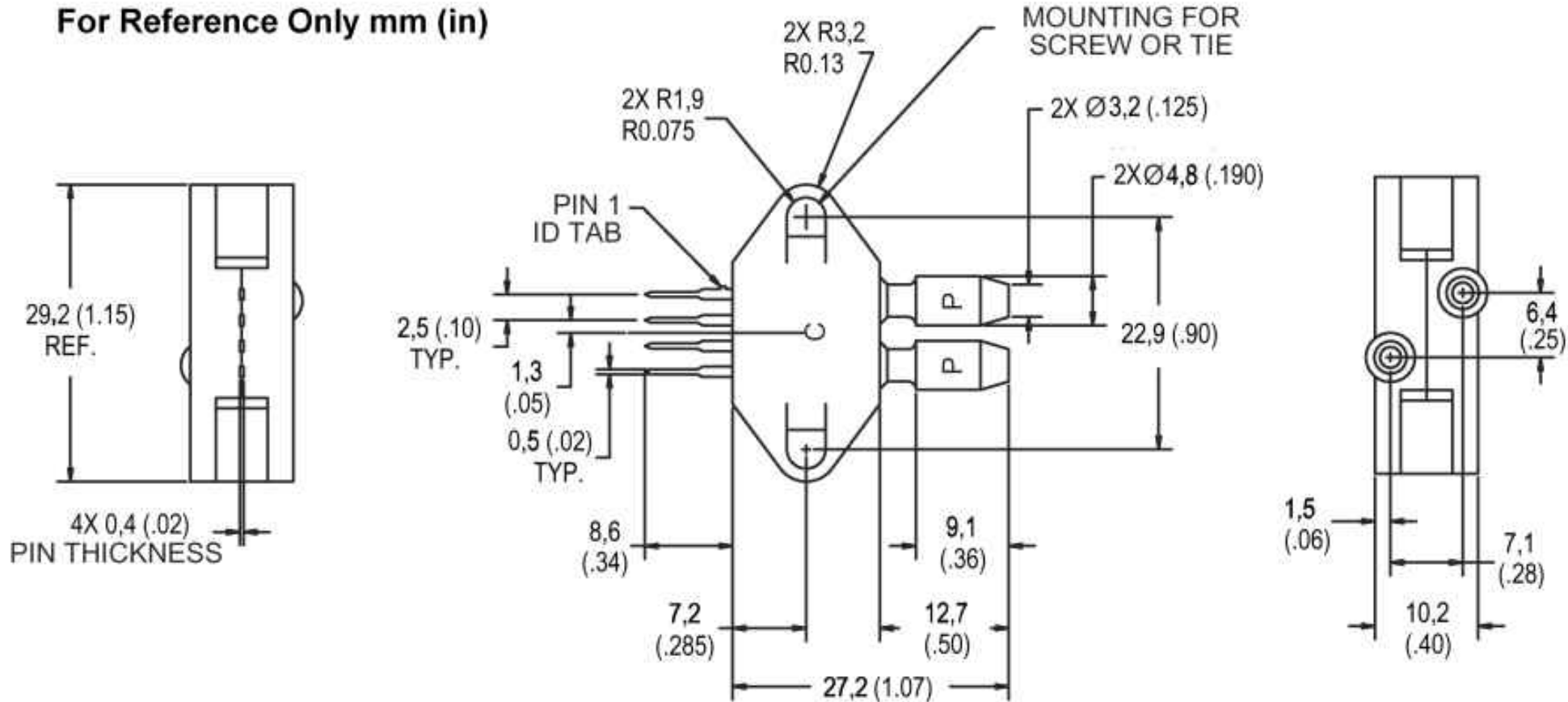
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## SX30DN

**Pressure Sensors: Measurement Type: Differential, Gage; 0 psid to 30 psid, Unamplified, "N" Package - Straight Port**

**For Reference Only mm (in)**



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[Electrical Connections]

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## SX30DN

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[Equivalent circuit]

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**Pressure Sensors: Measurement Type: Differential, Gage; 0 psid to 30 psid, Unamplified, "N" Package - Straight Port**

### **WARNING**

#### **PERSONAL INJURY**

DO NOT USE these products as safety or emergency stop devices, or in any other application where failure of the product could result in personal injury.

**Failure to comply with these instructions could result in death or serious injury.**

### **WARNING**

#### **MISUSE OF DOCUMENTATION**

- The information presented in this product sheet (or catalog) is for reference only. DO NOT USE this document as product installation information.
- Complete installation, operation and maintenance information is provided in the instructions supplied with each product.

**Failure to comply with these instructions could result in death or serious injury.**

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