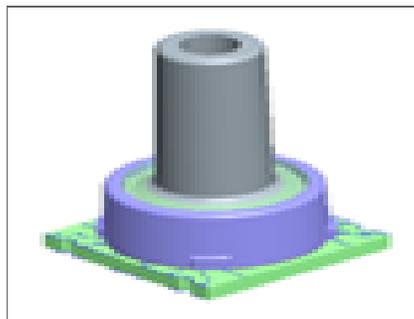


# TBP Pressure Sensor XZ212120TBP

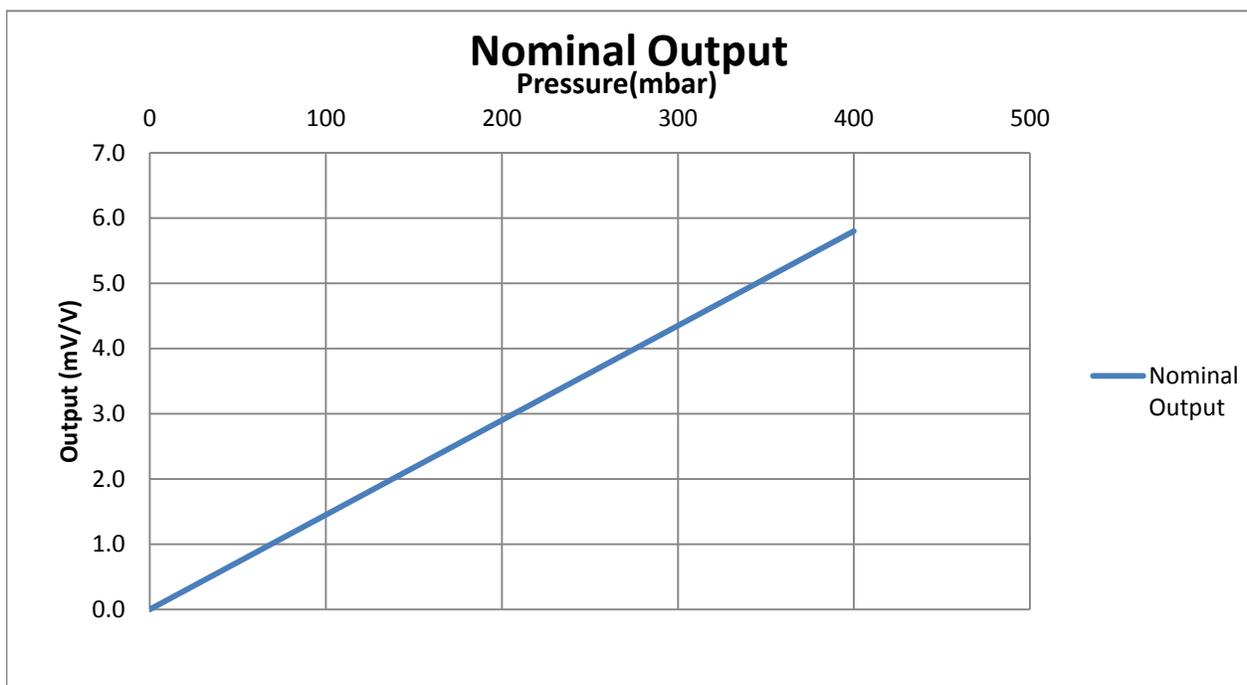
**Honeywell**

- Compensated and unamplified
- Small package
- Low power consumption
- Not sensitive to mounting orientation
- Stable offset voltage
- RoHS compliant



XZ212120TBP pressure sensors are designed to measure gauge pressures for air and non-corrosive gases and are calibrated to optimize performance from 0 to 400mbar .

## Nominal Transfer Function



$$\text{Output(mV)} = (5.75(\text{mv/v})/400\text{mbar}) * \text{Pressure applied} * V_{\text{supply}}$$

## Absolute Maximum Ratings

Supply voltage	-12.0 Vdc to 12.0 Vdc
Lead soldering temperature	15 s max .at 250°C[482°F]
Storage temperature range	-40°C to 125°C
Overpressure	2 bar
Burst pressure	4 bar

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7/7/2016

## Operating Specifications

Supply voltage	5.0Vdc typical
Supply current	0.60mA typical @ 5.0 Vsupply
Compensated temperature range	0°C to 85°C
The temperature range over which the sensor will produce and output proportional to pressure within the specified performance limits	
Operating temperature range	-40°C to 125°C
The temperature range over which the sensor will produce and output proportional	
Accuracy	± 0.15% FSS
25°C, Includes the effects of non-linearity, pressure hysteresis and repeatability	
Offset	± 0.12 mV/V
The output signal obtained when the reference pressure is applied to all available pressure ports, Also known as 'null' or 'zero'	
Full scale span	5.80 ± 0.35 mV/V
The algebraic difference between the output signal at the maximum and minimum limits of the pressure range	
Temperature Effect on Offset	0°C to 60°C ± 0.65% FSS
Maximum error relative to offset at 25°C	0°C to 85°C ± 1.30% FSS
Temperature Effect on Span	0°C to 60°C ± 0.75% FSS Typical ± 1.00% FSS Max
Maximum error relative to span at 25°C	0°C to 85°C ± 2.00% FSS
Thermal Hysteresis	± 0.15% FSS
Operating temperature range -40°C to 125°C	
Long Term Stability	± 0.20% FSS
1000hours, 5.0V, 25°C	



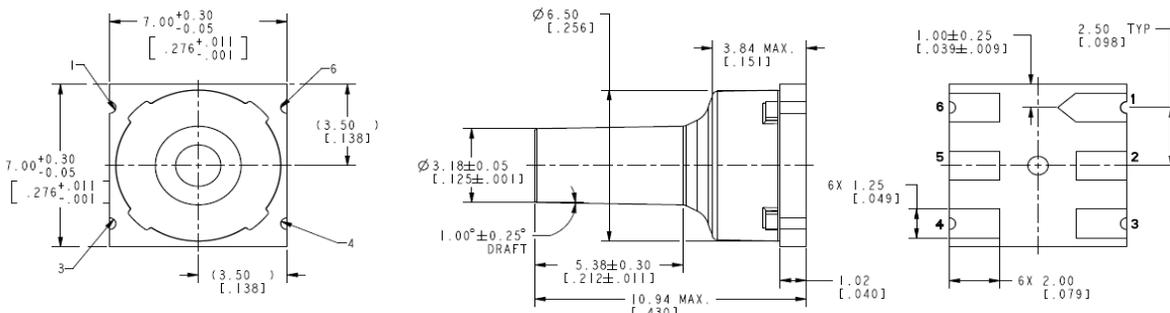
## Environmental Specifications

Humidity	0% to 95% RH, non-condensing
Shock	100g, 6 ms duration
Vibration	15g 10Hz to 2k Hz

## Wetted Materials

Port	High temperature polyamide
Substrate	Alumina ceramic
Adhesives	Epoxy, RTV
Electronic components	silicon, gold, glass

## Dimensions & Connections



PIN FUNCTION						
CIRCUIT	1	2	3	4	5	6
mV OUTPUT	V <sub>s</sub>	NC	V <sub>o-</sub>	GND	NC	V <sub>o+</sub>

For more information, please refer to the TBP platform datasheet (reference product is TBPLLNN400MGUCV).  
 datasheet revision 5 7/7/2016