

## APPLICATIONS

- OEM MEDICAL EQUIPMENT
- FOOD & BEVERAGE PROCESSING
- PRESSURE TRANSDUCERS
- 'SMART' VALVES
- SOLID STATE PRESSURE SWITCHES
- PRESSURE TRANSMITTERS

## MODEL BX • OEM PRESSURE SENSOR

The Model BX pressure capsule is intended for OEM's needing a small, high performance pressure sensor. The unique sensor module design eliminates the need for oil filled capsules and corrugated diaphragms providing a true, robust sensing surface for long life and superior performance. Constructed of a brazed assembly of 300 series stainless steel, the BX can tolerate a wide variety of corrosive media without risk of leaking silicon oil. The small, flush mount diaphragm is ideal for medical, beverage and food processing applications where stringent sanitation requirements are necessary.

Unlike other low cost sensors, the BX's output is compensated for temperature changes, greatly improving system performance at no extra cost.



**BX SERIES**

**OEM PRESSURE SENSOR**

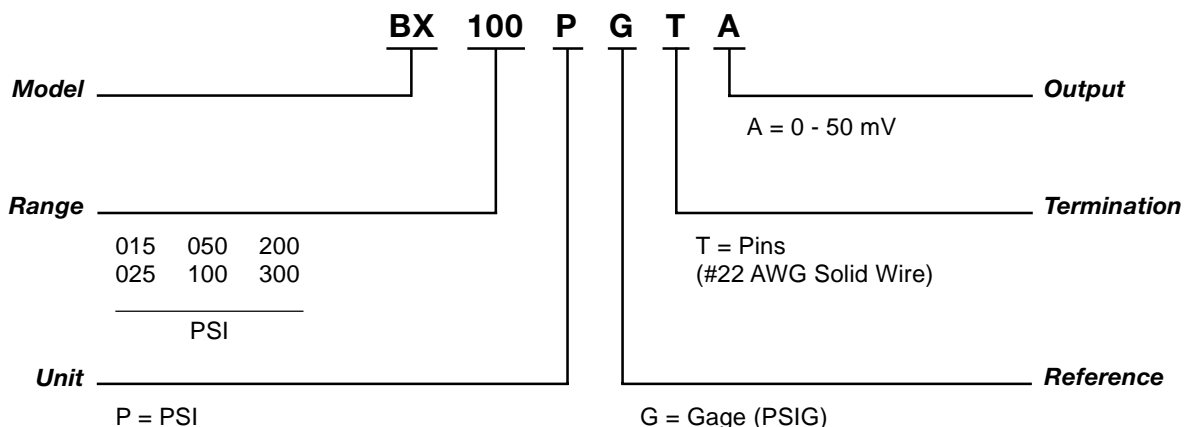
## FEATURES

- Small size, low cost
- Oil free isolated sensor
- Flush mount, non-corrugated diaphragm
- High impedance device
- Constant current

## BENEFIT

- Ideal for portable equipment
- Eliminates risk of leaking & contamination
- Satisfies sanitary requirements
- Low current draw, can be run on batteries
- Works with readily available 4-20 mA amplifier ICs

## HOW TO ORDER



Note: Not all combinations are available. Minimum quantity orders apply. Contact the factory for more details.

## TECHNICAL SPECIFICATIONS

### RANGE

15, 25, 50, 100, 200, 300 psig  
(1, 2, 3, 7, 14, 20 bar g)  
(bar values are approximate)

### PHYSICAL

Proof Pressure	2 x rated range
Burst Pressure	10 x rated range
Material in Contact With Media	Brazed assembly of 300 series SS parts
Shock	50 g's peak (5 milliseconds)
Vibration	Meets MIL-STD-810-C, Figure 514.2-5, Curve AP, 46.3 g rms minimum
Weight	Less than 0.5 oz (approx 13 gm)

### ELECTRICAL

Full Scale Output	50 mV $\pm$ 1 mVdc at rated excitation @ 25° C
Zero Output	0 mVdc $\pm$ 5% FSO @ 25° C
Excitation	4 mA @ 5.0 Vdc maximum
Input Impedance	900 W (nominal)
Output Impedance	5500 W (nominal)
Insulation Resistance	1000 M W @ 250 Vdc maximum
Electrical Connection	Four #22 AWG solid wires

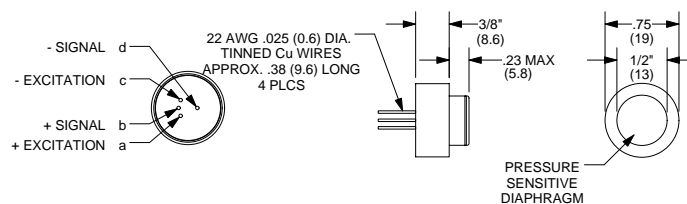
### PERFORMANCE

Accuracy	$\pm$ 1% FSO BFSL including effects of nonlinearity, hysteresis and nonrepeatability
Operating Temperature Range	-40° to 212° F (-40° to 100° C)
Compensated Temperature Range	50° to 130° F (0° to 80° C)
Thermal Effect on Zero	$\pm$ 1% FSO for any 55° C (100° F) change within the compensated range
Thermal Effect on Full Scale Output	$\pm$ 1% for any 55° C (100° F) change within the compensated range

NOTE: All specifications are measured at 25° C and rated excitation unless otherwise specified.

### DIMENSIONS

xx.xx = inches  
(xx.x) = mm



### WARRANTY/REMEDY

Honeywell warrants goods of its manufacture as being free of defective materials and faulty workmanship. Contact your local sales office for warranty information. If warranted goods are returned to Honeywell during the period of coverage, Honeywell will repair or replace without charge those items it finds defective. The foregoing is Buyer's sole remedy and is in lieu of all other warranties, expressed or implied, including those of merchantability and fitness for a particular purpose.

Specifications may change without notice. The information we supply is believed to be accurate and reliable as of this printing. However, we assume no responsibility for its use.

While we provide application assistance personally, through our literature and the Honeywell web site, it is up to the customer to determine the suitability of the product in the application.

Item # 1119000 M.G. 3/01

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