

GBCHT-BX Series
Flush Mounted Diaphragm
Flange Design, 0.500 Diameter
mV Output, Temperature Compensated
Constant Voltage Supply



DESCRIPTION

Advanced Sensor GBCHT-BX Series sensor is a glass bonded pressure sensor designed without an oil filled capsule or corrugated diaphragm providing high performance high output sensor for medical and food processing applications. The rugged design is compatible with a wide range of harsh media including refrigerants, compressed air, and hydraulic fluids compatible with 316L. The design's small footprint and flush mounted design is ideal where stringent sanitation requirements are necessary.

APPLICATIONS

- Food & Beverage Processing
- Smart Valves
- OEM Medical Equipment/Instrumentation
- High Sanitary Applications

FEATURES

- Designed to Replace Honeywell BX Series
- Flush Mount Diaphragm
- Flange Device for Easily Porting
- Non Oil Filled Devices
- Pin Terminations Connections
- Constant Voltage

SPECIFICATIONS

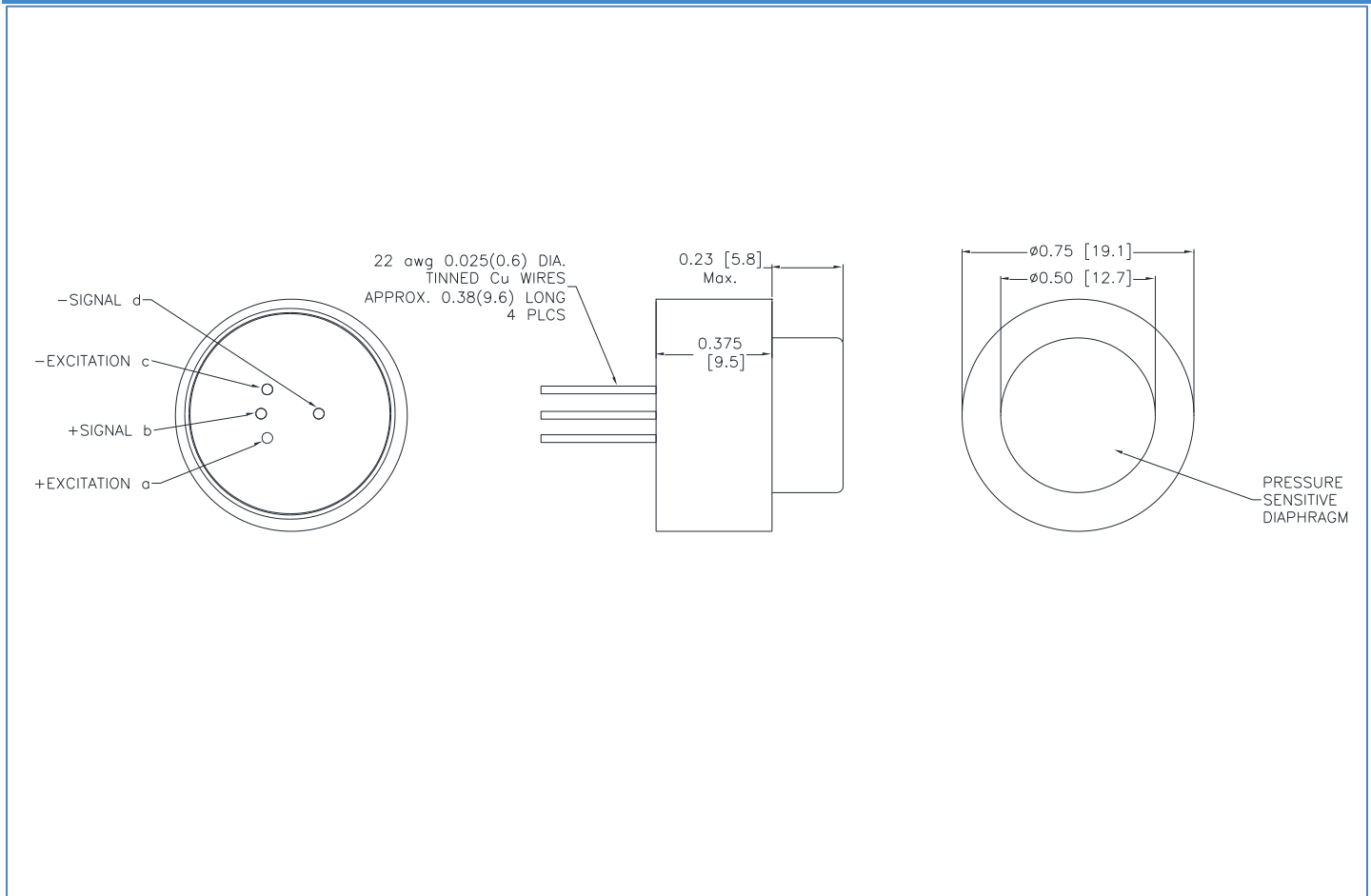
	Symbol	Min	Typical	Max	Unit	Note
Performance Characteristic						
Full Scale Span	FSS	49	50	51	mV	
Zero Pressure Offset		-2.5	±0.1	+2.5	mV	
Pressure Accuracy		-1.0		+1.0	%FSS	1
Current Consumption				4	mA	
Thermal Error of Span		-2.0		+2.0	%FSS	2
Thermal Error of Offset		-2.0		+2.0	%FSS	2
Insulation Resistance (50Vdc), Pins to Case		50			M Ω	
Response Time			100		μS	
Compensated Temperature			0 to 80		°C	
Operating Temperatures			-40 to 100		°C	

SPECIFICATIONS	Symbol	Min	Typical	Max	Unit	Note
Absolute Maximum Conditions						5
Supply Volage				10	Vdc	
Storage Temperature		-40		100	°C	3
Overage Pressure				10x	Range	4
Proof Pressure				2x	Range	
Media Compatibility		Liquids & Gases Compatible with 316/316L Stainless Steel				
Wetted Materials		316L Stainless Steel				

Reference Conditions: Vsupply: 5.00vDC, Ta=25 °C.

1. Best fit straight line including all effects of nonlinearity, hysteresis and non repeatability..
2. Over the compensated temperature range with respect to 25°C. 2% FSS for any 55 °C change within the compensated range
3. The maximum pressure that can be applied to a transducer without specification degradation.
4. The maximum pressure that can be applied to a transducer without rupture of either the sensing element or transducer.
5. Exceeding Absolute Maximum Specification may damage the device. Extended exposure beyond the operating conditions may affect device reliability.

MECHANICAL DIMENSIONS in [mm]



PART NUMBERING FOR ORDERS

Series	Port Style	Pressure Range	Pressure Units	Pressure Type (Range Availability) [Package Availability]	Connection
GBCHT-BX	FSF= Flat Surface with Flange	015 025 050 100 200 300	P=PSI	G=Gauge (All Ranges) [ALL]	PT= Pin Termination

Part Number Example: GBCHT-BX FSF 015PGFL
Termination Leads

GBCHT-BX Series, Flat Surface Ported Flange, 0-15PSI Gage, Pin

WARRANTY

Pressure sensors have a limited one-year warranty to the original purchaser. AVSensors will repair or replace, at its option, without charge those items it finds defective. This is the buyers sole remedy and is in lieu of all other warranties, expressed or implied, including those of merchantability and fitness for a particular purpose. In no event shall AVSensors be liable for consequential, special, or indirect damages. This warranty does not apply to units that have been modified, misused, neglected or installed where the application exceeds published ratings. Specifications may change without notice. The information supplied is believed to be accurate and reliable as of this printing, however, we assume no responsibility for its use.