

Heavy Duty Protection Against Extreme & Sub Sea Environments, Aggressive Media, and Seawater.

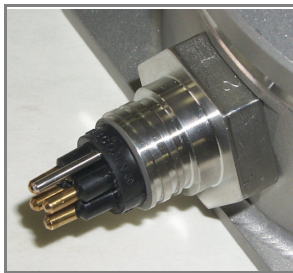


Photo above shows XB with PG9 Connector.

Photo to left shows XB with SubConn Underwater Quick Disconnect Connector.

Features

- *Heavy-duty stainless steel housing alternative to the Aluminum SB housing*
- *Inclination or acceleration*
- *Single or dual axis*
- *0-5V or 4-20mA outputs*
- *up to $\pm 80^\circ$ measuring range*
- *Seawater resistant - rated V4A*
- *Pressure resistant - 10 bar (1Mpa), 100m WG*
- *Corrosion resistant*
- *Rigid 4 point attachment of 3.2mm base circuit board*
- *Sensor and sensor electronics are galvanically isolated from housing*

Description

The XB is a pressure, seawater, and corrosion resistant stainless steel sensor enclosure that is perfect for extreme environment protection and underwater use.

Available as a single or dual inclinometer package, the XB offers a housing option to the SB Aluminum housing sensor packages. Sensor specifications and outputs are exactly the same as with the SB sensor packages.

Power input and sensor output would be provided by a cable (optional) that attaches via a liquid tight cable grip fitting (PG9 VA) or an underwater quick disconnect patch cord. The SubConn Underwater connector adds flexibility to the sealed environment.

Applications

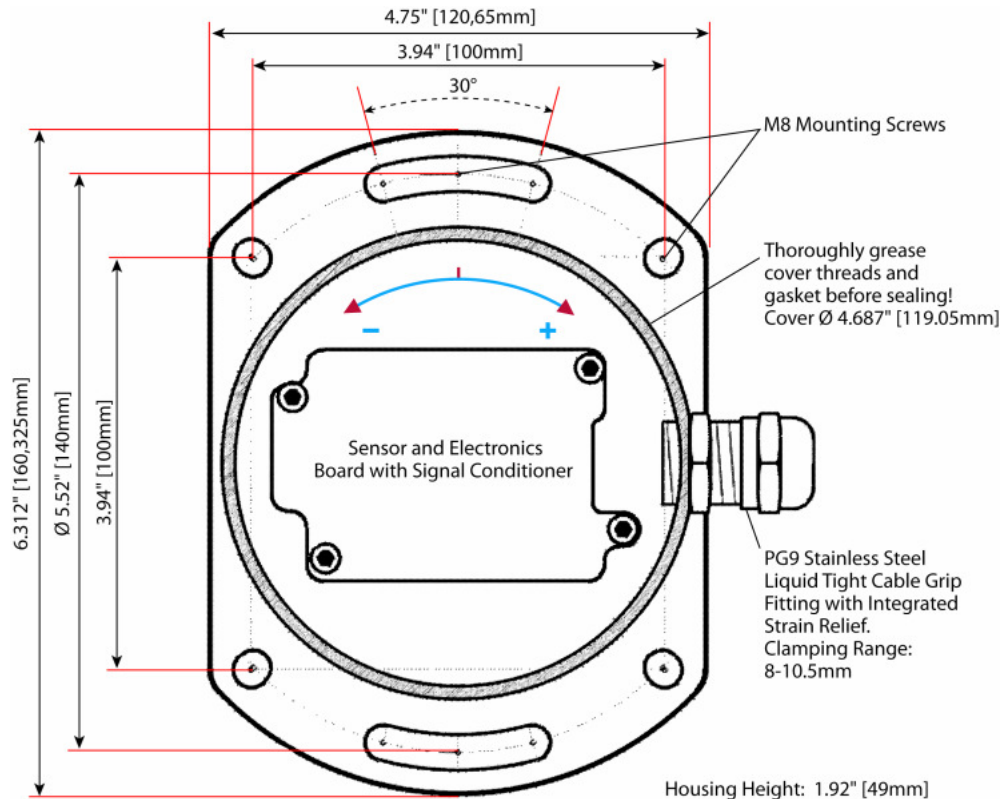
The XB can be used in any extremely rough environment where exact inclination or acceleration measurements must be obtained in aggressive media or below sea level under pressure load.

Typically used for platform leveling or boom angle monitoring of off shore drilling platforms, construction and mining equipment, as well as sea going vessels. It is particularly suited for offshore applications where the use of an underwater patch cord allows sensor connection underwater.



| TECHNICAL DATA | | |
|----------------------------|--|--|
| TERMINAL CONNECTION | Maximum: 2 x 1.5 mm ² (2 x 16 AWG) | |
| RANGE, RESOLUTION, OUTPUT | According to sensor used | |
| SENSING POSITION | Arbitrary | |
| INCLINATION PLANE | SB1, SB 2 (N) | 3 main Housing Directions |
| | SB1, (NG) | Parallel to the Housing Bottom |
| ACCELERATION PLANE | SB1, SB 2 (B, BD, BDK) | X, Y, Z-coordinates of Housing |
| ELECTRICAL VALUES | According to the Appropriate SB Sensor Box Requirements | |
| MECHANICAL CHARACTERISTICS | | |
| HOUSING | Stainless Steel V4A (seawater resistant) | |
| PRESSURE STRENGTH | 10 bar (1Mpa), 100 meters below sea level | |
| ENVIRONMENTAL PROTECTION | IP68 | |
| MOUNTING | Flat Vertical or Horizontal Surface (specified at time of order) | |
| INPUT/OUTPUT CONNECTION | Cable Entry | PG9 (V4A steel with integrated strain relief, handles 8-10mm cable diameter) |
| | Patch Cord | SubConn® Underwater Plug Connector |
| WEIGHT | 4 lbs (1,82 kilograms) (not including cable) | |
| OPERATING TEMPERATURE | -40°F to +185°F (-40° to +85°C) | |
| STORAGE TEMPERATURE | -49°F to +194°F (-45° to +90°C) | |

Figure 1: Dimensions and Mounting Position (inches [mm])



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