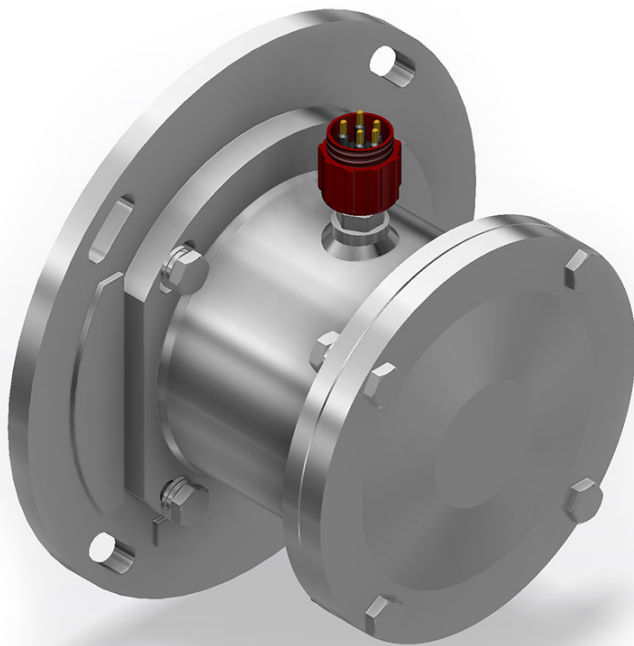


TWINCLINO 1000
DUAL-AXIS
SUBSEA
INCLINATION
SENSOR
PRODUCT SHEETS

Twinclino 1000: Dual-axis subsea inclination sensor designed to withstand harsh operating conditions



TWINCLINO 1000 DUAL-AXIS SUBSEA INCLINATION SENSOR SPECIFICATIONS

GENERAL

	METRIC	IMPERIAL
Main dimensions	See detailed drawings	
Material housing	Stainless steel 316L	
Weight in air	13 kg (excl. 5.5 kg mounting plate)	28.7 lbs (excl. 12.1 lbs mounting plate)
Depth rating	1000 msw	3281 ft
Operational temperature range	-20°C - +50 °C	-4 °F - +122 °F

ELECTRICAL – SENSOR A

Supply voltage	10 -30 VDC
Output signal	4 – 20 mA or 0 - 5V
Current consumption	< 60 mA (voltage output), < 100 mA (current output)
Maximum measurement range	± 90°
Non-linearity	< 0.05% of FS (<0.02% of FS optional)
Non repeatability & hysteresis	0.001% of FS
Bias thermal drift	0.01% of FS/°C
Sensitivity thermal drift	0.01% of measure/°C

ELECTRICAL – SENSOR B

Supply voltage	10 -30 VDC
Output signal	4 – 20 mA, 0 - 10V, RS232, CANopen
Typical power consumption	≤ 0.7 W
Maximum measurement range	± 80°
Absolute accuracy	0.5° (typical)
Resolution	0.01°
Settling time	150 ms

SELECTION & OPTION LIST

For Twinclino 1000 the following configuration items must be determined:

- **Measurement accuracy.** The Twinclino 1000 sensor can be executed with two different sensor types. Sensor A is characterized by extreme accuracy of up to $< 0.051\%$ F.S. Sensor B is a cost-competitive sensor, which achieves average measurement accuracies of up to $< 0.28\%$ F.S.
- **Measurement range.** For sensor A, inclination angle ranges of up to $\pm 90^\circ$ are possible. For sensor B, inclination angle ranges of up to $\pm 80^\circ$ are possible. However, in case a smaller rotation range is required, both sensor types will be set to a narrower range in order to maximize measurement accuracy.

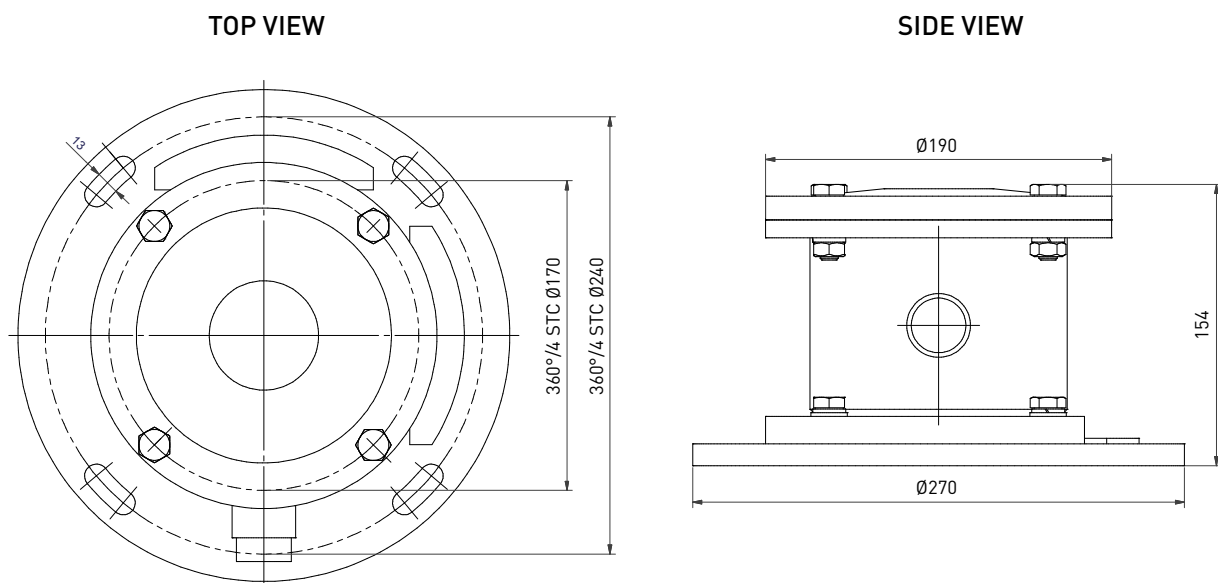
- **Data output format.** Twinclino 1000 sensors executed with sensor A can be supplied with either a 4 – 20 mA or a 0 – 5 V data output format. Twinclino 1000 sensors executed with sensor B can be supplied with the following data output formats: 0 – 10 V, 4 – 20 mA, RS232, and CAN open.
- **Connector.** Depending on the selected sensor and data output format, various connectors are available. By default, the Twinclino 1000 is supplied with a Subconn® Circular connector.

The following features are optional:

A Cable assembly

The sensor can be supplied with custom-made cabling in a variety of lengths, allowable loads, and connector types.

DIMENSIONS



3D CAD files in STEP format are available on www.seatools.com

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