

INC 3840

Installation Manual

Inclinometer Installation Manual

INC 3840

*1st Edition
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1. CONFIGURATIONS :

Models :

There are 4 models of inclinometers:

- **Inclinometer 34835-1:** 1 Sensor $\pm 10^\circ$ (TRIM or HEEL)
- **Inclinometer 34835-2:** 2 Sensors $\pm 10^\circ$ (TRIM and HEEL)
- **Inclinometer 34835-3:** 1 Sensor $\pm 30^\circ$ (TRIM or HEEL)
- **Inclinometer 34835-4:** 2 Sensors $\pm 30^\circ$ (TRIM and HEEL)

In each model, the TRIM sensor is delivered mounted for an horizontal installation.

For a **vertical installation**, you have to **unscrew the TRIM** sensor from its vertical position and to screw it in horizontal position (fixations threads are suitable on the bottom plate)

Inclinometer with 2 sensors in vertical position.



FORE
=>

The instrument is to be wired prior to mounting with a max. 10mm, min. 5 mm OD shielded cable, with 4 wires of 1.5mm² max. sectional area, see wiring diagram on page 2.

The instrument is to be secured so as to bear against the reference planes provided.

2. WIRING CONNECTIONS:

1. Strip the cable along a length of 150mm, thread it through the cable gland and under the terminal block
2. Tighten the cable gland
3. Get the wires around the terminal block and connect:
 - **HEEL** sensor terminals + and -
 - **TRIM** sensor terminals + and -
4. Cable grounding is to be done on the acquisition side



FORE
=>

3. ON SITE ADJUSTMENT:

Each instrument is **factory-preset**. The sensors are positioned by hand so as to read 12mA (to the nearest value), and are secured in place.

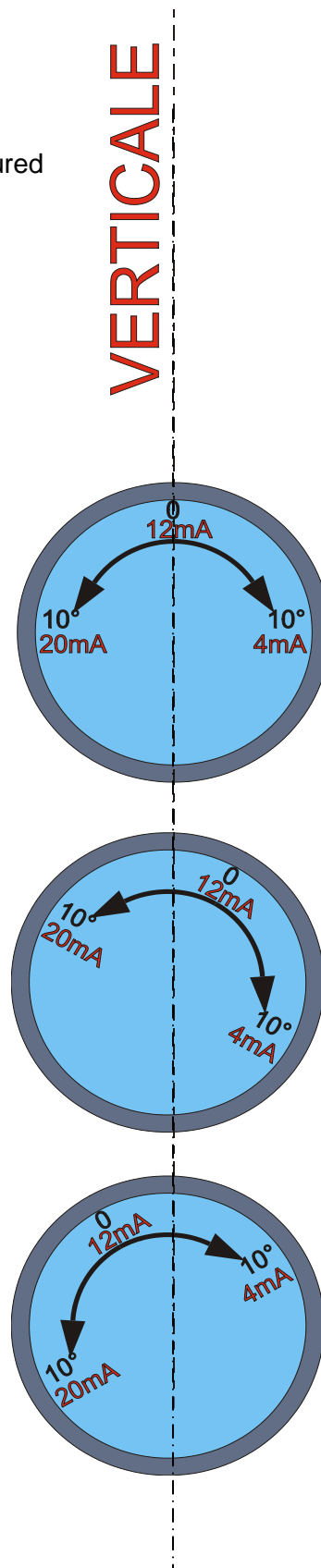
Measure the ship's TRIM and HEEL.

Compensate using the offset correction (if greater than 0.5°, reposition the sensor).

HORIZONTAL positioning
Current = **12mA**

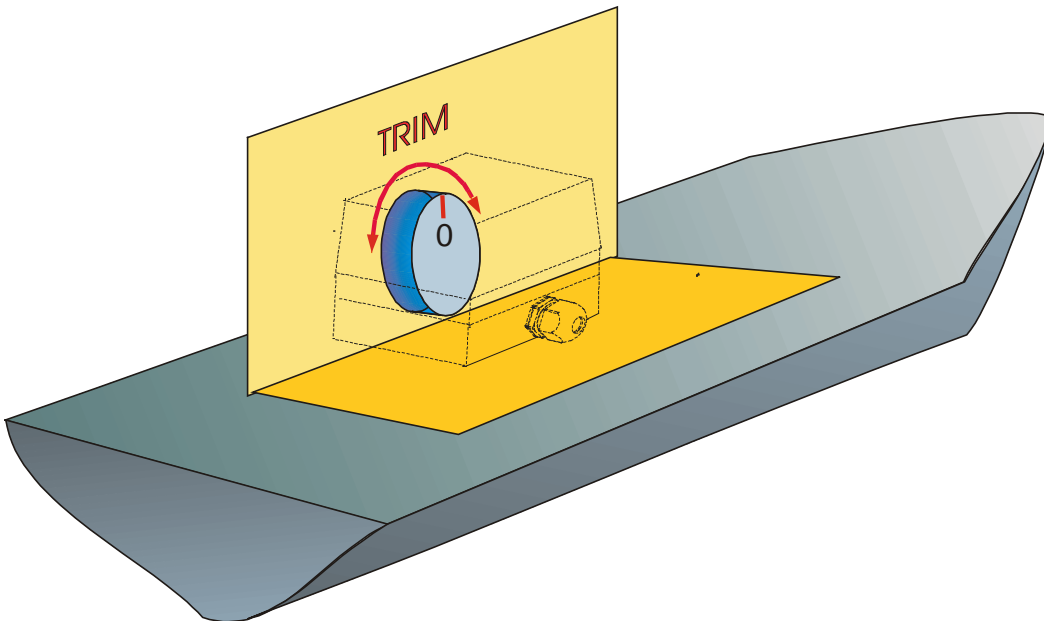
Tilting to the **RIGHT**
DECREASING strength

Tilting to the **LEFT**
INCREASING strength

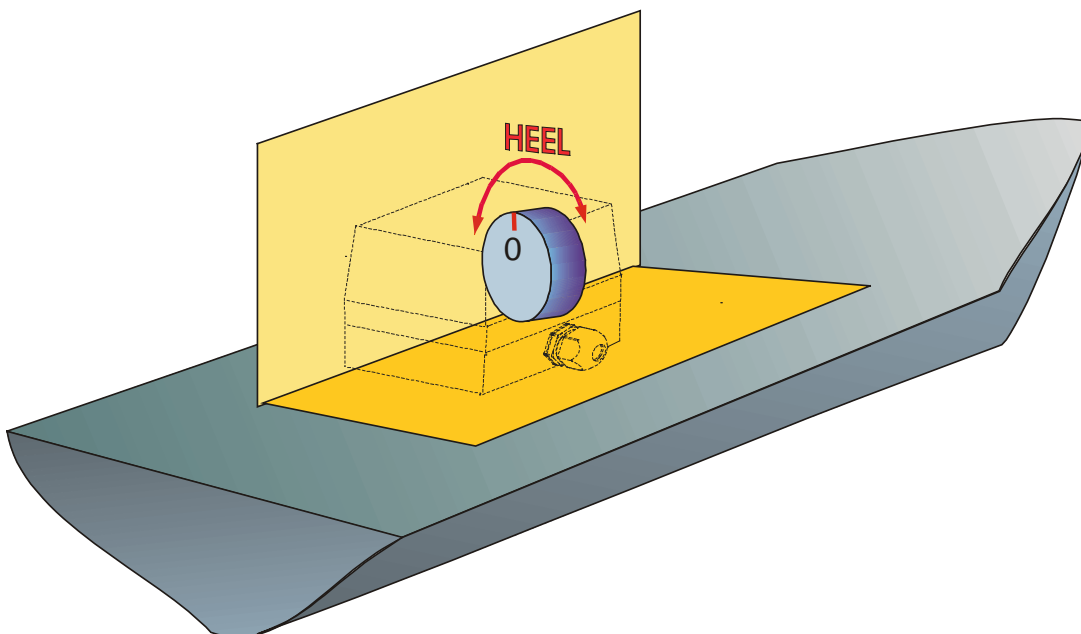


4. GENERAL VIEW OF THE VARIOUS CONFIGURATIONS ON BOARD SHIP

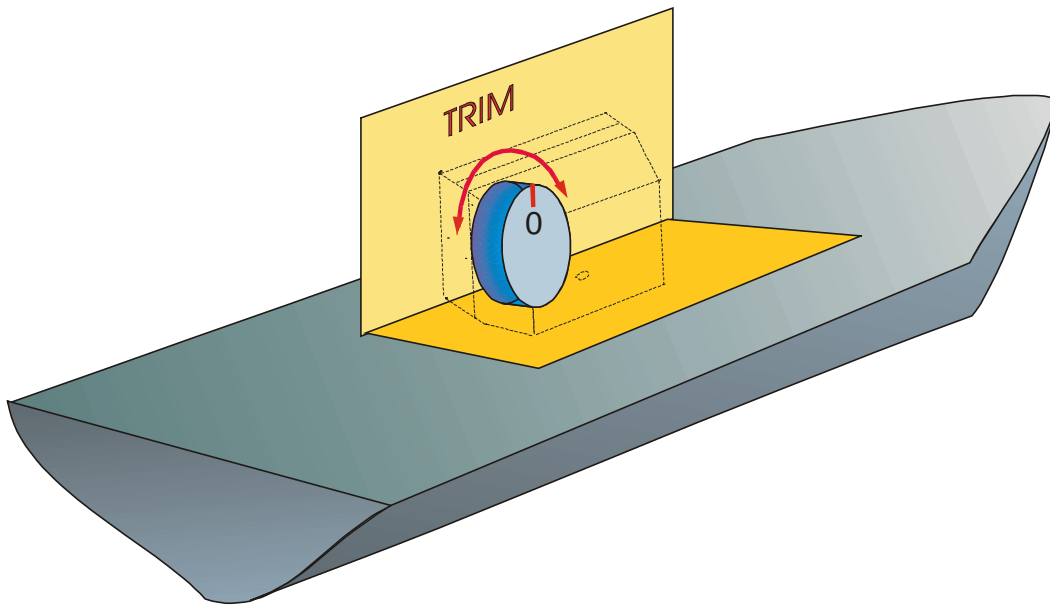
HORIZONTAL MOUNTING: with one inclinometer along the TRIM direction



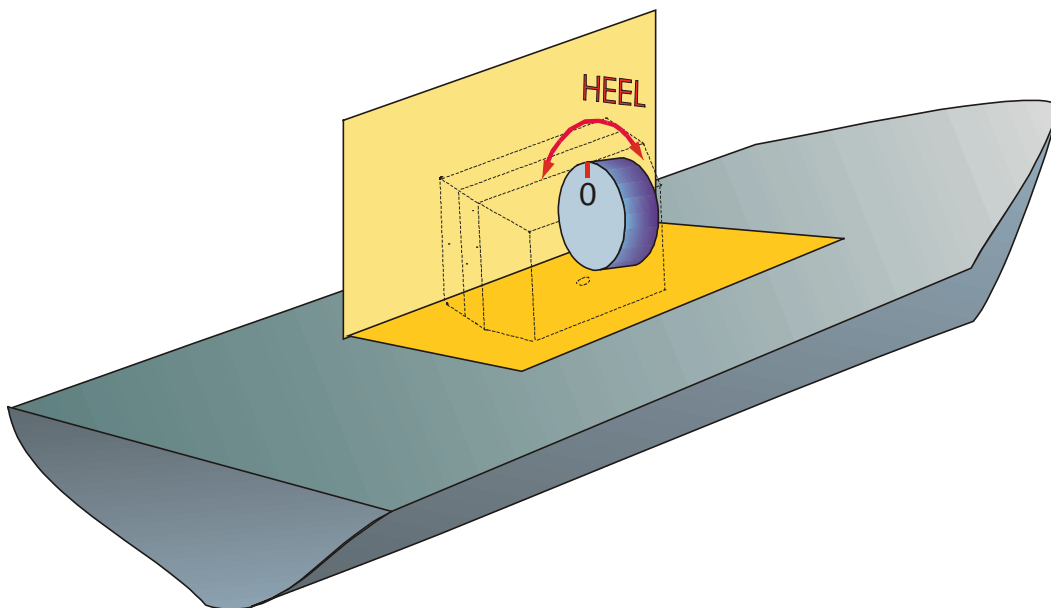
HORIZONTAL MOUNTING: with one inclinometer along the HEEL direction



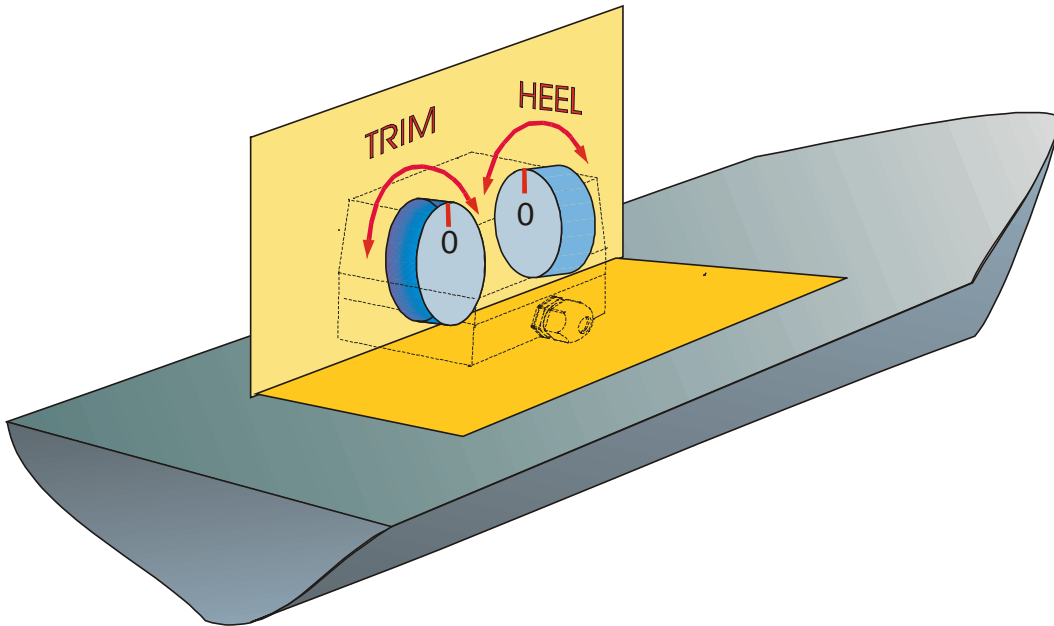
VERTICAL MOUNTING: with 1 inclinometer along the TRIM direction



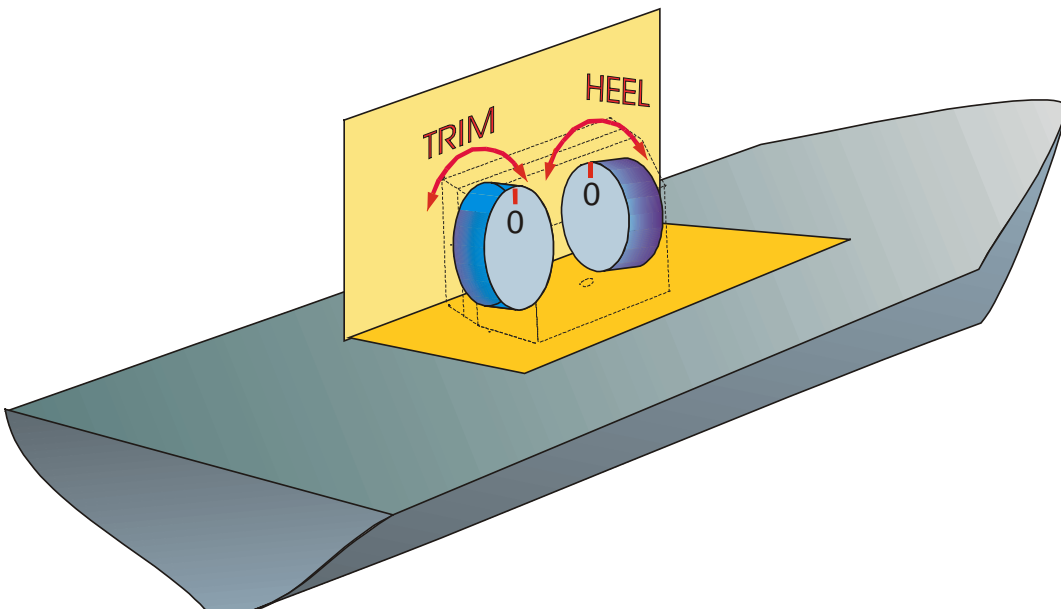
VERTICAL MOUNTING: with 1 inclinometer along the HEEL direction



HORIZONTAL MOUNTING: with 2 inclinometers



VERTICAL MOUNTING : with 2 inclinometers



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