SB360

Sensor box containing one NG360 inclinometer with RS485 interface

Features

- **robust pressure die cast aluminium housing (IP65) with saltwater proof coating**
- **high overload resistance**
- **cable connections at both ends enable use in a chain of inclinometers**
- **up to 78 NG360, SB360 and/or XB360 can be connected to one 4-wire bus**
- **twist free 4-point fastening of rigid, 3.2mm thick base PCB**
- **integrated NG360 inclinometer with RS485 interface**
- **any mounting orientation**
- **NG360 electrically isolated from housing**
- **extensive EMC protection**
- **RS485 terminator (100Ohm) can be connected via solder bridge**
- **all measuring properties identical to NG360**

Description

The SB360 is a pressure die cast aluminium sensor housing (IP65) with an integrated NG360 inclinometer for measuring uniaxial inclination.
In addition to the sensor, the box contains extensive EMC protection and RS485 terminator resistance that can be de- and reconnected via a soldering bridge.
The two compact metal cable guides and the small housing size in combination with the RS485 interface enable the use of this high quality measuring system as a chain inclinometer in harsh operating conditions. The implemented interface loops and available addresses enable the connection of up to 78 sensor boxes to one 4-wire bus (2 power supply wires, 2 data transfer lines).

Application

The SB360 is suitable for applications requiring the measurement of any angle for further processing on a PC under harsh operating conditions.
Areas of successful implementation include construction, mining, agricultural machinery, transportation and conveyor systems, ships, operation and automation technology as well as general mechanical engineering.

Technical Specifications

Terminals	2 pcs. 6 x 1,5 mm^2
Cable fixing	M12 x 1.5 cable gland, clamping range 6mm … 7.5mm
Measuring range, Resolution, etc.	dependent on implemented SEIKA sensor
Degree of protection	IP65
Measuring plane	parallel to bottom of housing

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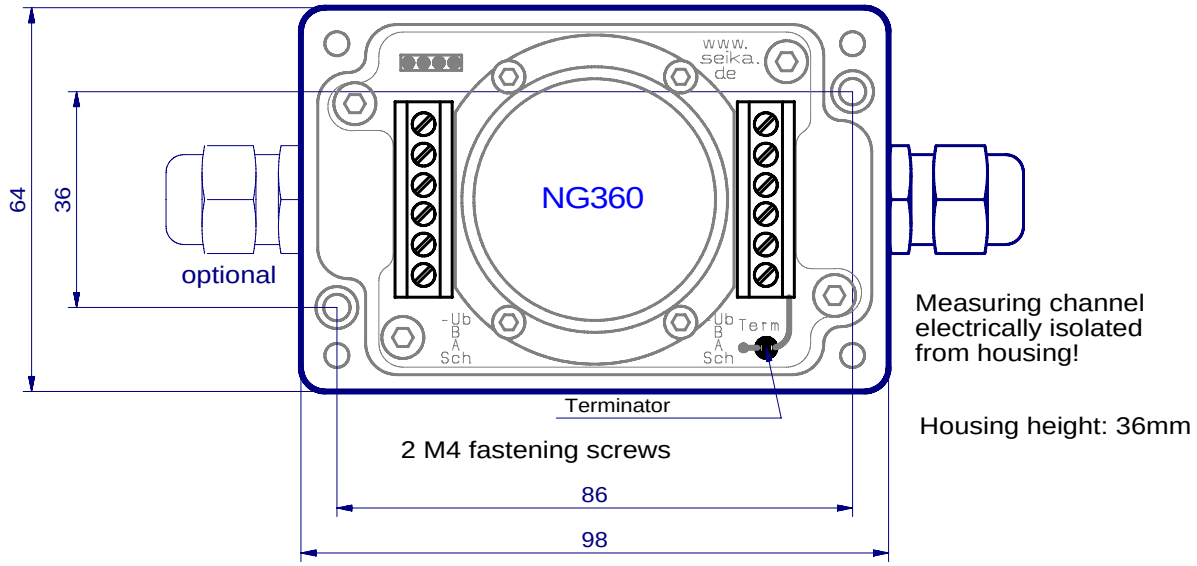
Terminator resistance	100 Ohm
Operating temperature	-40°C ... +85°C

Options: calibration record, silicon encapsulation, custom wiring

Dimensions (in mm)



Connections