

# ONWA Compass Top Sensor

## Model: KCS-20/0183

ONWA KCS-20/0183 is used to convert the Magnetic Field to NMEA0183 format output. Install KCS-20/0183 on the surface of a magnetic compass. The heading of the magnetic compass convert to \$HDT and \$HDM output from KCS-20/0183. The NMEA heading sentences HDT and HDM can be connected to other navigational equipment onboard as heading signal such as AIS, Radar etc.

KCS-20/AD10 also available for Furuno format. Please specify when ordering.

### Technical Specification

Power: Regulated DC13.8V

Accuracy:  $< 1^\circ$  (excluding magnetic anomalies)

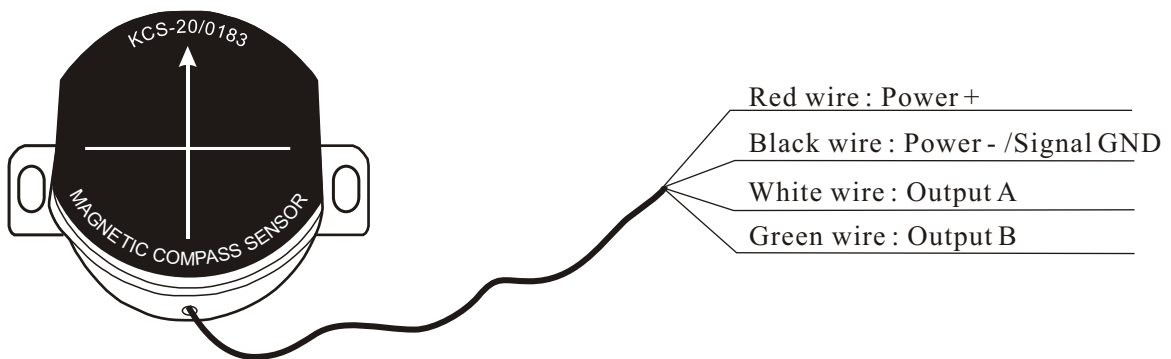
Output sentences: \$HDT, \$HDM, 4800/n/8/1 (IEC61162-1 standard)

Output rate: 1/sec.

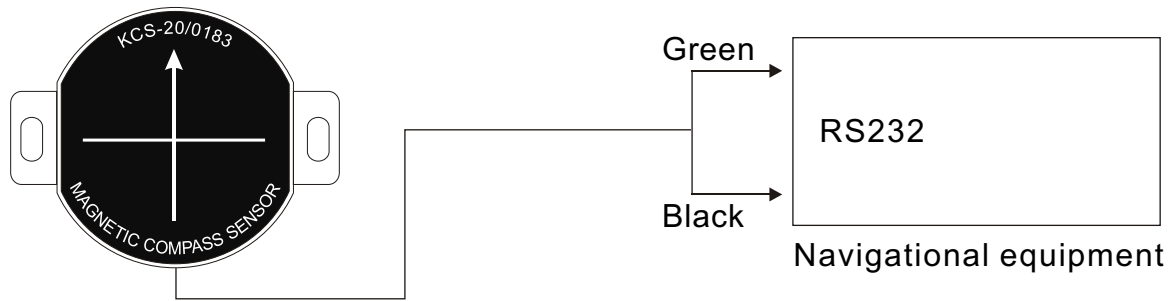
Interface: RS485/422/232

### Installation

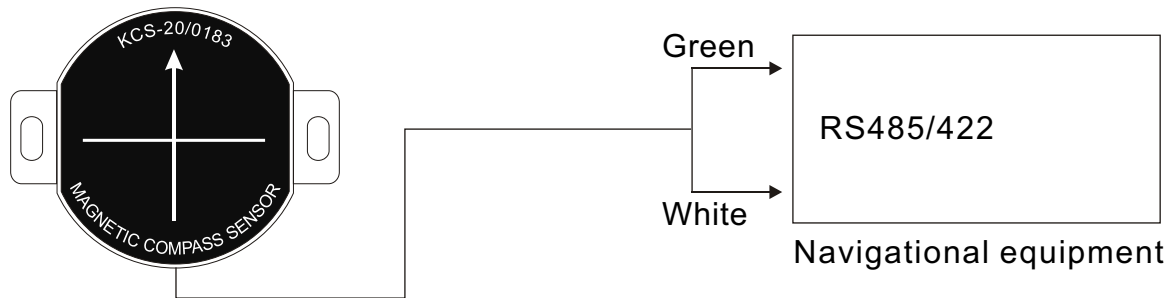
1. Connect the wires according to the following diagram:



For RS232 connection:



For RS485/422 connection :



2. Remove the stick cover and locate the KCS20/0183NMEA close to the installation point. (Don't fix it)
3. Rotate KCS20/0183 until the heading on the magnetic compass is same as heading read on the connected navigational equipment.
4. Fix KCS20/0183 on the surface of the magnetic compass.