

Marine Data Rudder Angle Order Telegraph System - MD310S



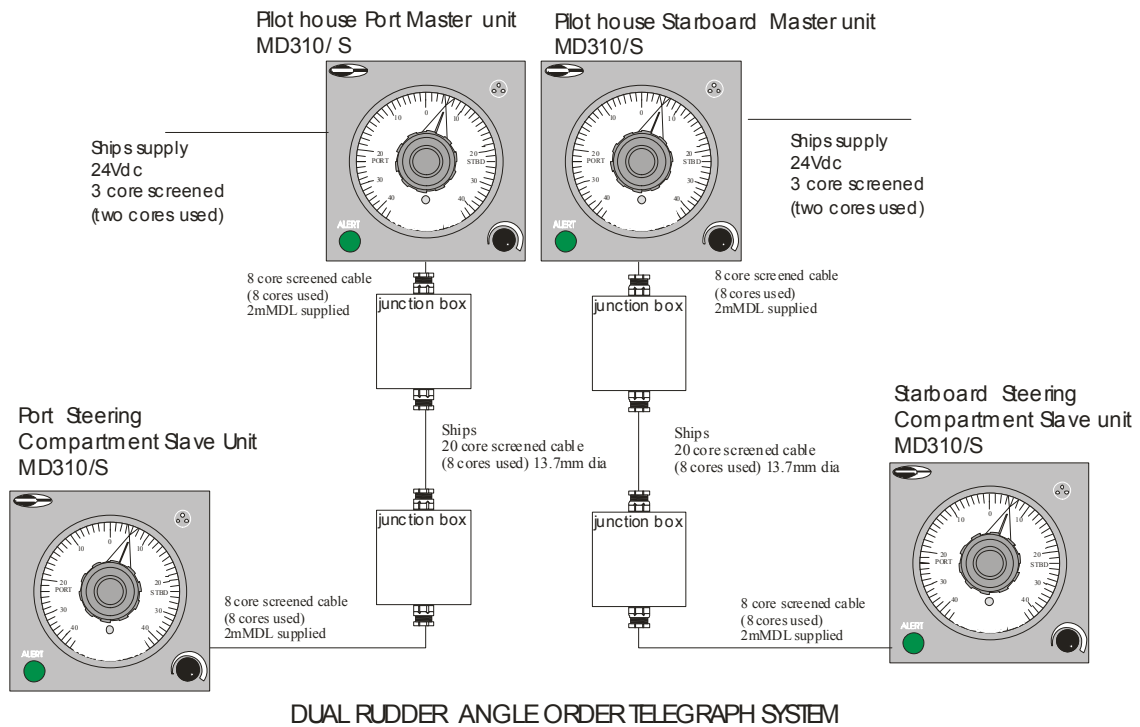
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The Marine Data MD310 is a Rudder Angle Order Telegraph servo loop system, which can be used in the event of a primary steering system failure to provide communication from the bridge to the rudder steering position. The system comprises of a master and slave for each of the ships rudders. This system is suitable for most military and commercial vessels.

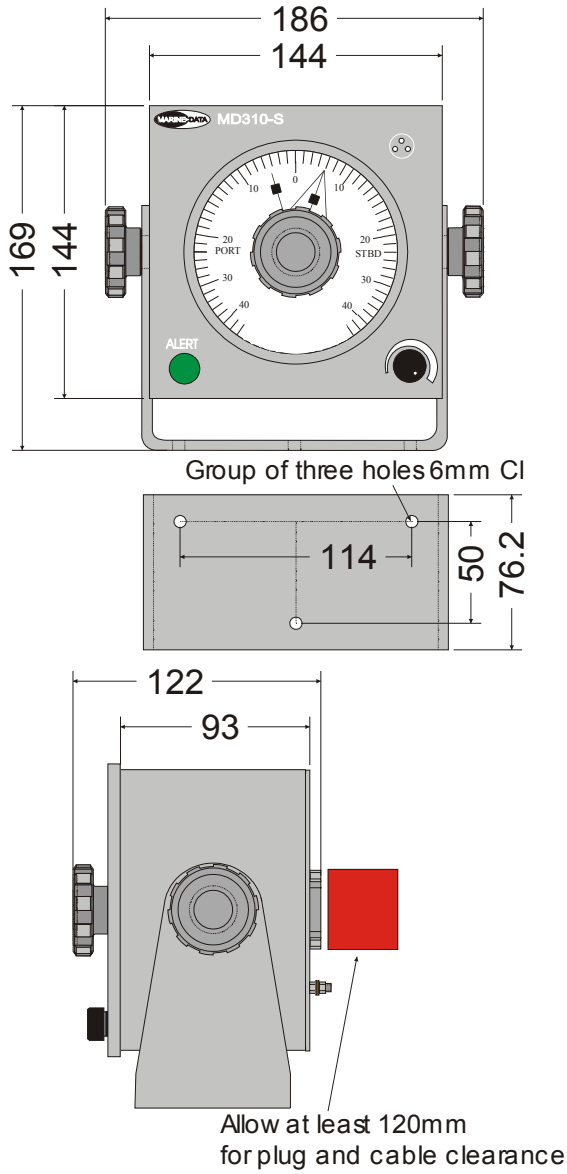
Operation:

Upon loss of the primary system the Bridge transmits the desired steering position via the master unit along with an audible alert. Once the helmsman has acknowledged and executed the command the slave is changed to the new position and an audible response is given.

Figure I.2 Rudder Angle Telegraph Block Schematic



SPECIFICATION FOR RUDDER ANGLE SINGLE TRANSMITTER RECIEVER MD310-S



Physical

- Weight 2.9Kg (estimated)
- Mounting Panel or bulkhead
- Finish Agate Grey RAL7038
- Connections 2 x 20 way screened cable (15 way D-type fitted)
1X 3 way (power)

Construction

- Electrical Aluminium Enclosure
- Power Supply 110V 50/60 Hz derived from MD310-T
- Data Input Synchro 110V 60Hz rudder demand
- Data output Synchro 110V 60Hz rudder response

Environmental

- Rating IP54
- Temperature -10° C to +70° C
- Magnetic permeability Cat. A
- Humidity 0% to 95% at 40°C
- Vibration 1-12.5Hz +/- 1.6mm
12.5Hz- 25Hz +/- 0.38mm
25Hz -50Hz +/- 0.1mm

Operational

- Performance +/- 0.1° Accuracy
- Follow up rate 12° /S

Mounting Information

- See diagram at right for mounting information.

Additional Information

- 2.5m of tailed cable with connectors for connection to system supplied

Fig 2.1 mechanical specification MD310-S

