



COMPASS & HEADING / BEARING REPEATERS

MD69BR TRUNNION MOUNT BEARING COMPASS REPEATER

SKU F069018

[View Online >](#)

FEATURES

- **IPX6 Weatherproof Marinised Bearing Repeater**
- **Dual scale 36:1 precision concentric dial display**
- **Balanced for taking bearings using our optional sights**
- **Automatic selection and prioritisation of NMEA heading data type**
- **Automatic warning of loss of valid heading data**
- **Automatic detection of a previously lost heading data type without requiring a reset**
- **True / Magnetic Source Indication**
- **Local and Remote dimming control**

CERTIFICATIONS



GL Type Approved

OVERVIEW

The MD69BR from is a dual scale NMEA-based heading repeater designed for taking celestial and terrestrial bearings. Equipped with a 36:1 precision dual scale compass card display, digital heading data (ship's heading) may be conveniently displayed at any suitable location on a vessel.

With a range of mounting options and accessories, the MD69BR offers a bearing repeater solution for most locations and may be bulkhead, surface or stand mounted. Finished in grey to complement other external marine navigation equipment.

The MD69BR Bearing Repeater from Marine Data: flexible in application, easy to install and simple to maintain.

APPLICATIONS

- Repeats the heading display of a ship's magnetic or gyro compass at a convenient location on a vessel
- Allows celestial and terrestrial bearings to be taken when used in conjunction with the MD69AZI Azimuth Sight or the MD69BC Bearing Circle. The MD60A2K Telescopic Alidade is recommended for making detailed azimuth measurements

ACCESSORIES



MD69AZI
Azimuth Sight



MD69BC
Bearing Circle



MD60A2K
Telescopic Alidade



MD69CPC
Protective Cover

RELATED PRODUCTS

[MD69/21](#) - Bearing Compass Repeater Pelorus Stand Assembly

[MD69/22](#) - Bulkhead Mounted Bearing Compass Repeater

PHYSICAL

Weight:	7.0 kg (optimally balanced for Azimuth Sight)
Dimensions:	H 164 mm W 325 mm; Body Ø 246 mm Outer dial Ø 185 mm; Inner dial Ø 95 mm Verge ring 20 mm (visible)
Mounting:	Gimbal & Trunnion (standard); Pelorus Stand and Bulkhead Bracket options available
Connections:	Multicore cable through watertight gland
Construction:	Aluminium alloy enclosure
Finish:	RAL7040 Window Grey, semi-gloss

ENVIRONMENTAL

IP rating:	IPX6
Operating temp:	-25°C to +55°C
Shock:	STANAG 4549 - NS (0.03; 3.0; 300)
Vibration:	MIL-Std-167-1A / IEC 60945
EMC:	MIL-Std-461E / IEC 60945
Thermal:	MIL-Std-810F / IEC 60945
Noise:	MIL-Std-1474D <= 53 dB
Compass:	Safe Distance 100 cm

ELECTRICAL

Power Supply:	24 V dc 8 W nominal (22-31 V dc)
Data input:	RS422 NMEA 0183; Automatic Baud rate detection (4800 to 38400)
Data sentences:	HDT, HDG and HDM; selected in descending order of priority
Cable:	2.5 m multicore data cable tail

OPERATIONAL

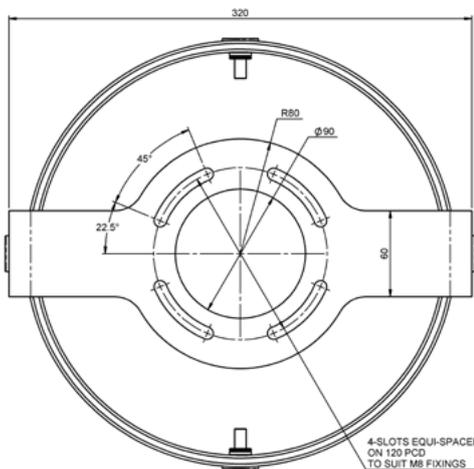
Performance:	± 0.01° resolution
Follow-Up Rate:	20° per second
Gimbal Action:	±45° pitch and roll
Display:	Dual scale 36:1 rotating dial display
Heading LEDs:	Blue = True Heading; Yellow = Magnetic Heading
Resolution:	Outer scale marked at 1°, 5°, 10° & 45°; Inner scale marked at 0.1° & 1°
Illumination:	LED array with local & remote dimming control; red tint
Error Indication:	Loss of valid data: Dial oscillates ±35° about the last known good heading; dial illumination flashes

APPROVALS

Complies with:	IEC 60945
Type Approval:	Germanischer Lloyd (GL)

ADDITIONAL

Supplied:	MD69CB/W IP65 rated waterproof terminal box
------------------	---



Copyright © 2018 Marine Data Systems Ltd. - MD69BR Datasheet v06r01

Vittlefields Technology Centre, Forest Road, Newport, Isle of Wight, United Kingdom. PO304LY
Marine Data Systems Ltd. reserves the right to make changes to its products and specifications without prior notice.