COMPASS & HEADING / BEARING REPEATERS

MD69BR TRUNNION MOUNT BEARING COMPASS REPEATER

SKU: F069018

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FEATURES

- **Weatherproof Marinised Bearing Repeater**
- **Dual scale 36:1 precision concentric dial display**
- **Automatic selection and prioritisation of NMEA heading data type**
- **Automatic indication 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**
- **Fully sealed to IEC 60945 Exposed Area Classification**

TYPE APPROVED PRODUCT
DNV
DNV.COM/AF

OVERVIEW

The MD69BR 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 may be conveniently displayed at any suitable location on a vessel.

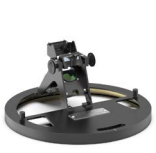
With a range of mounting options and accessories, the MD69BR may be bulkhead, surface or stand mounted. Fully sealed to IEC 60945 Exposed Area Classification and includes weatherproof terminal box.

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

SPECIFICATIONS

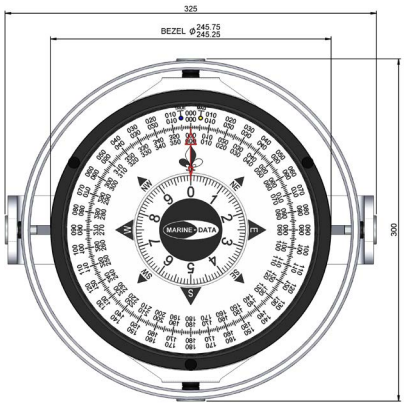
PHYSICAL	
Weight:	7.0 kg (optimally balanced for Azimuth Sight)
Dimensions:	H 164 mm W 325 mm; Body Ø 246 mm Outer dial Ø 185 mm; Inner dial Ø 95 mm Verge ring 20 mm (visible)
Mounting:	Gimbal & Trunnion (standard); Pelorus Stand and Bulkhead Bracket options available
Connections:	Multicore cable through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

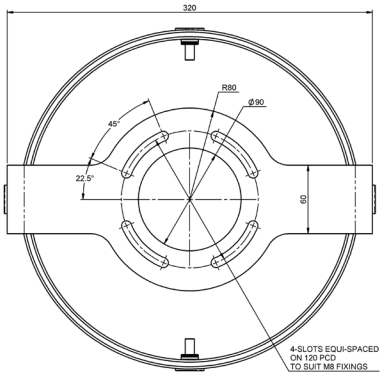
ELECTRICAL	
Power Supply:	24 V dc 8 W nominal (22-31 V dc)
Data input:	RS422 NMEA 0183; Automatic Baud rate detection (4800 to 38400)
Data sentences:	HDT, HDG and HDM; selected in descending order of priority
Cable:	2.5 m multicore data cable tail

APPROVALS	
Conforms with:	BS EN 60945:2002 (BSI, 2008) BS EN 61162-1:2016 (BSI, 2016) BS EN 62288:2014 (BSI, 2016) BS ISO 8728:2014 (BSI, 2014) BS ISO 16328:2014 (BSI, 2014) IMO Res. A.424(XI) (IMO, 1979) IMO Res. A.821(19) (IMO, 1995) IMO Res. MSC.36(63) (IMO, 1994) IMO Res. MSC.97(73) (IMO, 2000) IMO Res. MSC191(79) (IMO, 2004)
Type Approval:	DNV

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

ENVIRONMENTAL	
IEC 60945 Equipment Category:	Exposed Area
Operating temp:	-25°C to +55°C
RoHS:	Compliant
Compass Safe Distance:	Standard: 20 cm Steering: 20 cm
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





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