Gimbal Bushes Retrofitting Kit

Gimbal Pins Retrofitting Kit

COMPASS & HEADING / BEARING REPEATERS

# MD69BRX COMPASS BEARING REPEATER BOWL FOR RETROFIT

SKU: F069036

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## OVERVIEW

The MD69BRX compass bearing repeater is equipped with dual scale 36:1 precision compass card display, and provided as a bowl-only option for retrofit or replacement into third party gimbal rings.

Ship's Digital NMEA heading data may be conveniently displayed at any suitable location on a vessel to take celestial and terrestrial bearings.

Available retrofitting kits come with either gimbal bushes or pins, to fit most third party gimbal rings. Contact us for more information.

## FEATURES

- **Weatherproof Marinised Bearing Repeater that fits a range of third party gimbal rings**
- **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**
- **True / Magnetic Source Indication**
- **Local and Remote dimming control**
- **Fully sealed to IEC 60945 Exposed Area Classification**

## 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 Marine Data Bearing Sights.

## ACCESSORIES

**MD69AZI**
Azimuth Sight

**MD69BC**
Bearing Circle

**MD60A2K**
Telescopic Alidade

**MD69BR/GR1**
Gimbal Ring

## RETROFITTING KITS

**MD69BRX/B1 or B1012**
Gimbal Bushes Retrofitting Kit for 243mm pitch

**MD69BRX/P1**
Gimbal Pins Retrofitting Kit for 254mm pitch

**MD69BRX/P2**
Gimbal Pins Retrofitting Kit for 274mm pitch

TYPE APPROVED PRODUCT
DNV
DNV.COM/AF

# SPECIFICATIONS

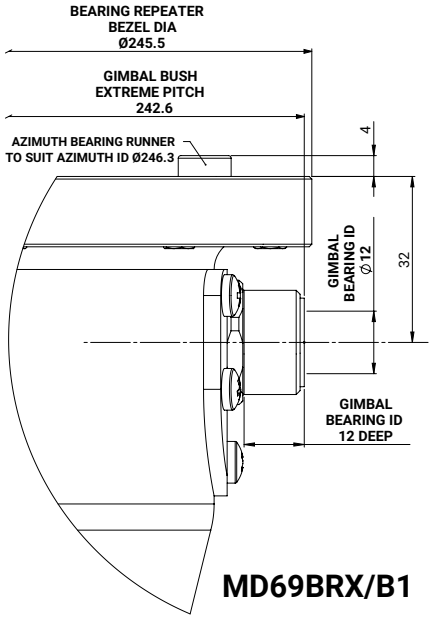
| PHYSICAL | |
|---|---|
| **Weight:** | 7.0 kg (optimally balanced for Azimuth Sight) |
| **Dimensions:** | H 176 mm; W 245.5 mm**; Body Ø 246 mm. Outer dial Ø 185 mm; Inner dial Ø 95 mm. Verge ring 20 mm (visible)<br>* See below dimensions for mounting kits.<br>***Suits Azimuth ID Ø246.3 mm* |
| **Mounting:** | Third Party Gimbal & Trunnions |
| **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 |

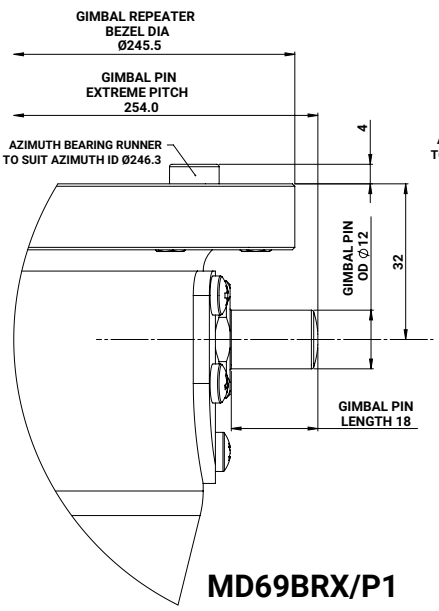
| ENVIRONMENTAL | |
|---|---|
| **IEC 60945 Equipment Category:** | Exposed Area |
| **Operating temp:** | -25°C to +55°C |
| **RoHS:** | Compliant |
| **Compass Safe Distance:** | Standard: 20 cm<br>Steering: 20 cm |

| 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. |

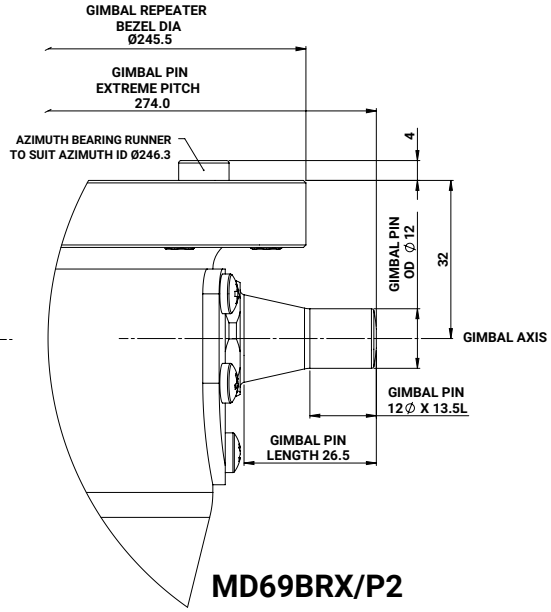
| APPROVALS | |
|---|---|
| **Conforms with:** | BS EN 60945:2002 (BSI, 2008)<br>BS EN 61162-1:2016 (BSI, 2016)<br>BS EN 62288:2014 (BSI, 2016)<br>BS ISO 8728:2014 (BSI, 2014)<br>BS ISO 16328:2014 (BSI, 2014)<br>IMO Res. A.424(XI) (IMO, 1979)<br>IMO Res. A.821(19) (IMO, 1995)<br>IMO Res. MSC.36(63) (IMO,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




**MD69BRX/B1**




**MD69BRX/P1**




**MD69BRX/P2**

All Dimensions in mm