

COMPASS & HEADING / RATE OF TURN REPEATERS

MD77ROT DIAL RATE OF TURN INDICATOR

SKU: F077201

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FEATURES

- **Clear and Easily Read Dial Display**
- **Rate of Turn up to 30°/min**
- **Panel or Bulkhead Mounted**
- **Touch Controls**
- **Local and Remote Dimming Control**
- **Automatic Detection of Previously Lost Data**
- **Digital NMEA 0183**

OVERVIEW

The MD77ROT is a NMEA-based Rate of Turn Indicator, displaying the Rate in degrees per minute. Housed in a robust, compact aluminium enclosure with a touch panel for background and pointer illumination, the MD77ROT is ideal for any vessel.

The MD77ROT provides a clear and easy to read 118 mm diameter analogue dial display, graduated in 1 degree per minute increments. Rate range: Up to 30 degrees per minute to Port and Starboard.

Compact and rugged, the MD77ROT offers a solution for locations where the available space is limited and may be either bulkhead or panel mounted. Finished in Jet Black (RAL9005) Fine-texture Powder Coat to complement other marine navigation equipment.

The MD77ROT from Marine Data: flexible in application, easy to install and simple to maintain.

APPLICATIONS

- To display Rate of Turn (ROT) data transmitted from NMEA 0183 compatible marine equipment at a convenient location

ACCESSORIES

- Panel Mounting Kit (Supplied)
- Bulkhead Bracket Mounting Kit
- Remote Dimmer Control (0-24 V dc)

RELATED PRODUCTS

- MD68ROT - Rate of Turn Indicator (Dial Ø 164 mm)
- MD67ROT - Weatherproof Rate of Turn Indicator (Dial Ø 118 mm)
- MD77ROT120 - Rate of Turn Indicator (Dial Ø 118mm; 0-120°/min)

TYPE APPROVED PRODUCT
DNV
DNV.COM/AF

SPECIFICATIONS

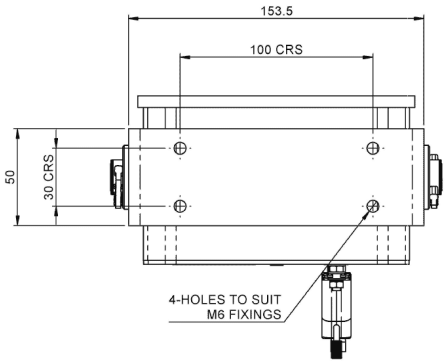
PHYSICAL	
Weight:	1.25 kg (on bracket)
Dimensions:	H 166 mm; W 200 mm; D 87 mm (on bracket) Fascia 144 x 144 mm; dial Ø 118 mm 140 mm square panel cut out
Mounting:	Panel or Bulkhead (accessory)
Connections:	1 x data cable to 15-pin D-sub plug M4 earth stud
Construction:	Aluminium alloy enclosure
Finish:	Jet Black (RAL9005) Fine-texture Powder Coat

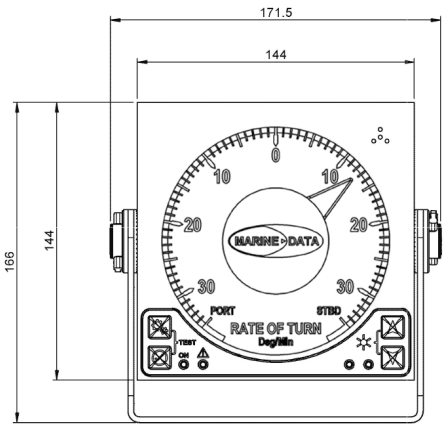
ELECTRICAL	
Power Supply:	24 V dc (18-32 V); 6 W
Data Protocol:	Digital RS422 NMEA 0183; 4800 / 9600 / 19200 / 38400 Baud, auto-selecting
Data Sentence:	ROT ($--ROT,x.x,A*hh<CR><LF>
Output:	External Alarm Loop (optional)
Cable:	Supplied with 2.5 m multi-core data cable

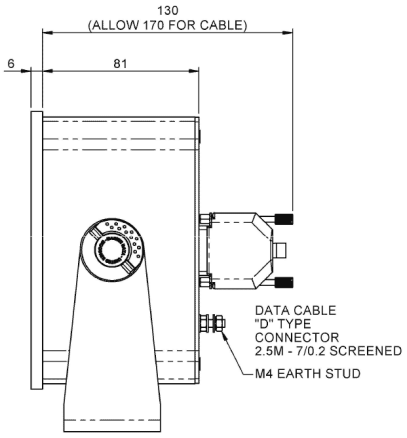
OPERATIONAL	
Performance:	±0.5°/min accuracy; Alignment rate in excess of 40° per second
Dial Illumination:	Backlit white
Display:	Rate of Turn; range 0-30°/min; scale graduated in 1° per minute rate increments; full scale deflection 35°/min
LED Indicators:	Fault Indication = Red (RD); Set-up Mode = Blue (BU)
Loss of Valid Data:	Pointer assumes a vertical downward position Red FAULT LED Illuminated

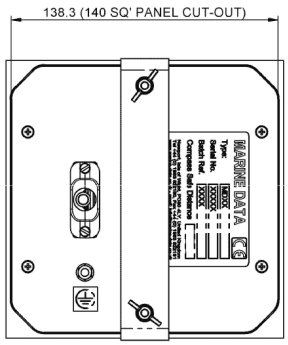
ENVIRONMENTAL	
IEC 60945 Equipment Category:	Protected Area
Operating temp:	-15°C to +55°C
Storage temp:	-25°C to +70°C
RoHS:	Compliant
Compass Safe Distance:	Standard: 85cm Steering: 45cm

APPROVALS	
Conforms with:	BS EN 60945:2002 Inc. corrigendum April 2008 (BSI, 2008) BS EN 61162-1:2016 (BSI, 2016) BS EN 62288:2014 (BSI, 2016) ISO 20672:2007, IMO Resolution A.694(17) IMO Res. MSC.36(63) (IMO, 1994) IMO Res. MSC.97(73) (IMO, 2000) IMO Res. MSC191(79) (IMO, 2004)
Type Approval:	DNV - When used with a Type Approved Rate of Turn Sensor in accordance with IMO Resolution A.526 (13)









All dimensions in mm

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