PROJECT SPECIFIC PRODUCT RANGE



POWER & DATA DISTRIBUTION / INTERFACES

MD36/5/W WEATHERPROOF SYNCHRO TO NMEA INTERFACE

SKU: F036025

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FEATURES

- **IPX6 Weatherproof Marinised enclosure**
- **Converts Analogue 3-Phase Synchro to Digital NMEA 0183**
- **Allows legacy equipment to connect to NMEA systems**
- **115 V – 400 Hz Reference Voltage**
- **90 V per phase Synchro**
- **Low Power Consumption**
- **Compact and Robust**

OVERVIEW

The MD36/5/W is a Weatherproof, solid-state Synchro to Digital Interface. It converts an AC Synchro-transformer based transmission of ships heading from legacy equipment to a modern IEC61162-1 (NMEA 0183) compliant Digital Transmission format.

Constructed in a robust die cast aluminium enclosure and finished in RAL7040 Window grey semi-gloss powder coat paint, the MD36/5/W is designed to complement other marine navigation equipment. Supplied for bulkhead mounting.

The MD36/5/W Weatherproof Synchro to NMEA Converter from Marine Data, easy to install and simple to maintain.

APPLICATIONS

- The MD36/5/W is suitable for converting from a three-phase synchro transmission format to a digital NMEA 0183 (IEC61162 1) transmission format. This is especially useful for retro-fitting legacy systems with modern equipment requiring a digital transmission of ships heading.
- Suitable for installing in a damp environment

RELATED PRODUCTS

- MD36/5 - Single Channel Synchro to NMEA Interface
- The complete range of Marine Data Heading Repeaters

This product is an example of a baseline specification which we are not currently stocking as a standard product. Please contact us with your project-specific requirements, and we can discuss opportunities to provide a bespoke solution.

SPECIFICATIONS

PHYSICAL	
Weight:	1.0 kg
Dimensions:	H 120.4 mm; W 122 mm; D 83 mm
Mounting:	Bulkhead mounted
Connections:	Cable glands: 1x M20, 1x M16; Earth Stud M6
Construction:	Die Cast Aluminium enclosure
Finish:	RAL7040 Window Grey, semi-gloss

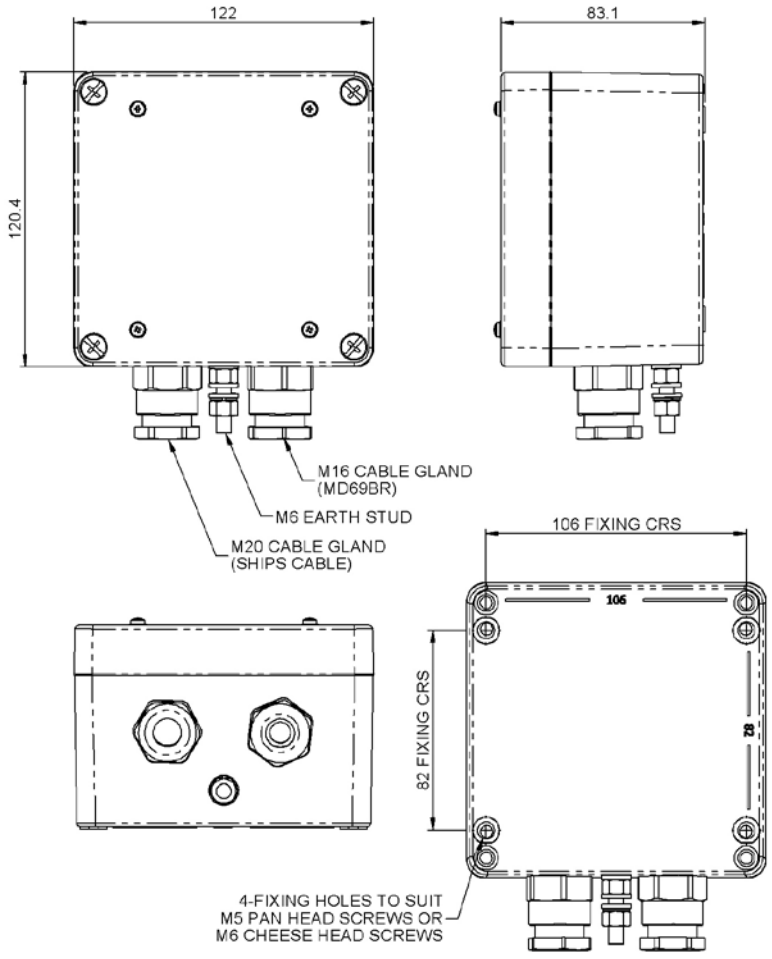
ELECTRICAL	
Power Supply:	24 V dc nominal; 4 W max; (0.12 amps @ 24 V); 18-32 V dc
Data input:	Synchro; 115 V Ref @ 400 Hz 90 V l-l signal, 3 phases Ratio 1:1 (1 rev = 360 deg)
Data Output:	NMEA 0183 (IEC 61162-1 $HEHDT,xxx.xx,T*CS<CR><LF> 4800 Baud; 10 messages per second

OPERATIONAL	
Performance:	±0.1° accuracy
MTBF:	>30,000 hours
Error Indication:	Status LEDs on internal PCB Status in NMEA sentence set to 'invalid'

ENVIRONMENTAL	
IP rating:	IPX6
Operating temp:	-15°C to +55°C
RoHS:	Compliant
Compass:	Safe Distance 50 cm

APPROVALS	
Conforms with:	IEC 60945; IEC 61162-1

ADDITIONAL	
Option:	Custom paint colour and stainless steel cable glands - Subject to MOQ



All dimensions in mm

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