Actisense®

PRO-NBF-1

Type Approved NMEA Buffer

The Type Approved NMEA Buffer, PRO-NBF-1, isolates and buffers NMEA 0183 data with the power to drive multiple devices.

Able to distribute up to six identical, amplified streams of data from one source, the NMEA signals are buffered to ensure that each Listener receives the data at the required voltage levels, providing consistent data quality.

Isolation on the input and outputs ensures the protection of the source Talker device and destination Listener devices.

The NMEA Buffer has ISO-Drive™ technology on the outputs and OPTO-isolation on the input which enables you to connect the NMEA 0183 Buffer with complete peace of mind.

The stainless steel housing makes the device rugged, sturdy and gives increased durability. The metal case also acts as an RF Shield, making the device an ideal addition to commercial installations.

To make installation quick and simple the PRO-NBF-1 features 2-part pluggable connectors that allow use of screw terminals. The PRO-NBF-1 is designed to be mounted on a bulkhead or alternatively it can be mounted on a DIN Rail using the optional brackets.

The optional strain relief brackets can be provided to ensure reliable professional cable management.

Part number: PRO-NBF-1

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Feature	Advantage	Benefit
One OPTO-isolated input	Meets isolation requirements of protecting talker devices	Peace of mind and highest reliability
Six ISO-Drive™ outputs	Isolates and buffers up to six listeners distributing identical data to each Listener, protecting against ground loops	ISO-Drive separates the Listener from the Talker to protect both the NBF-3 and each connected device
Compatible with RS422, RS232 and RS485 connections	Wide input voltage range and powerful output current drive	Easy installations due to wide compatibility
Up to 115200 baud	Covers all commonly used baud rates	Wide compatibility meaning simplified installation
Outputs automatically track the input baud rate	Automatic autobaud, no configuration required	Quick, easy installation
Protocol independent	Passes all data, no configuration required	Simple installation saves time and money and provides peace of mind
Wide operating voltage	Allows operation on 12V or 24V systems	Compatible with all common power systems
Input Protection	Protects against reverse polarity and transients	Protects against faults
Stainless Steel Housing	Sturdy construction providing optimal corrosion resistance and RF shielding	Increased durability and high performance
Isolation from battery ground	Each output has >1000V of isolation from the DC power supply ground	Critical to keeping connected devices protected from ground loop damage
Power LED	Clear feedback of power status for ease of debugging	See power is connected correctly
Input indicator LED	Confirms correct connection and presence of data	Clear feedback of input status for ease of debugging
Pluggable two-part screw terminal connectors	Quick installation of cables and easy debugging by simple unplug operation	Fast and simple installation, saving the overall cost
Type Approved	Certified to unified requirements of IACS E10 / IEC 60945	Can be installed on vessels governed by Class Society Rules
Panel or Optional DIN rail mount	Can mount to bulkhead or DIN rail using optional mounting brackets	Flexible installation options to save time and money

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