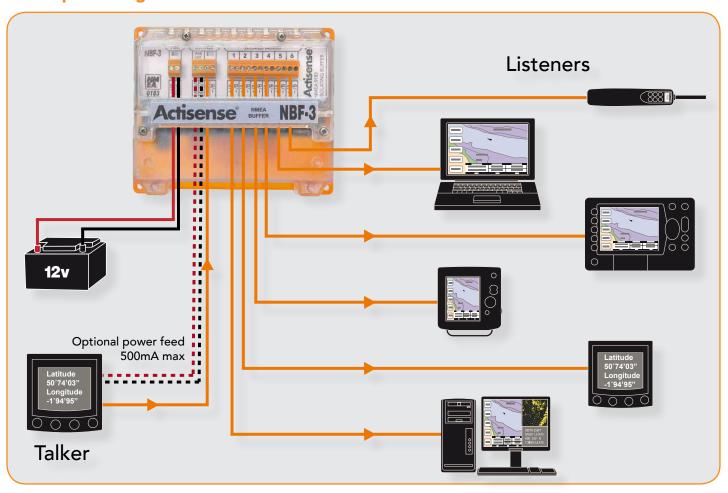


Example Configuration



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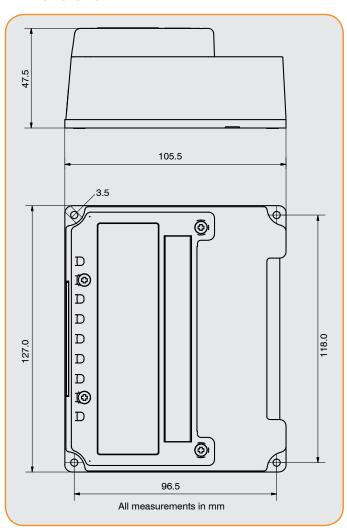


NBF-3 Technical Specifications

Power Supply	
Input Supply Voltage	10 to 35V DC
	100mA max @ 12V DC (all outputs
Input Supply Current (NBF-3 only)	@ full drive into 100Ω loads)
(NBF-3 Offly)	
Input Supply Connector	Pluggable 2 way screw terminal,
	3.5mm pitch
Input Protection	Continuous reverse polarity and
(NBF-3 only)	ESD protection
Power Indicator	LED, blue (lit constantly indicates
	correct operation when input supply connected)
Listener Power Output	10 to 35V DC derived directly from
Voltage	the input supply voltage
Listener Power Output	
Current	500mA max (PTC resettable fuse)
Listener Power Output	Pluggable 2 way screw terminal,
Connector	3.5mm pitch
NMEA 0183 Port - List	
Number of	erier & raiker
Listener/Input Ports	One NMEA 0183 Listener
Number of	
1	Six isolated NMEA 0183 Talkers
Talker/Output Ports	Fully NMEA 0183, RS422 & RS232
Compatibility	compatible. RS485 Listener
Compatibility	compatible. R3403 Listerier
	2500V input to ground 1500V
Galvanic Isolation	output to ground using ISO-Drive
Speed/baud rate	4800 to 115200 bps
Talker Output Voltage	
drive	$>= 2.1V$ (differential) into 100Ω
Talker Output Current	
drive	20mA max.
Talker Output Protection	Short circuit and ESD
Listener Input Voltage	-15V to +15V continuous, -35V to
Tolerance	+35V short term (<1 second)
	Current limited, overdrive
Listener Input	protection to 40V DC and ESD
Protection	protection
Listener Data Indicator	LED, green (flashes at data rate)
_	Pluggable 2-way screw terminals,
Connectors	3.5mm pitch
Approvals and Certific	•
EMC	IEC60945 (sections 9 & 10)
Environmental	
Protection	IP66
Operating Temperature	-20°C to +70°C
Storage Temperature	-40°C to +85°C
Relative Humidity	0 to 80% RH
Guarantee	3 years

Mechanical	
Housing Material	Polycarbonate
Protective Lid Material	Polycarbonate
Sealing Materials	Expanded silicone foam gasket, closed cell polyurethane splash guard and ePTFE waterproof vent
Dimensions	127mm (L) x 106mm (W) x 48mm (H)
Weight	210g
Mounting	4 x 3.5mm lugs to allow panel mount with self tapping screws (included), optional DIN rail mount available on request.

Dimensions



All specifications are taken with reference to an ambient temperature (TA) of $+25^{\circ}$ C.

Part Number	Description
NBF-3-BAS	NMEA Buffer with an OPTO input, 6 ISO-Drive outputs and Talker power feed
	Accessory Description
DIN-KIT-1	DIN Rail mounting kit suitable for use with rail types: Top hat rail EN 50 022 or G section rail EN 50 035

