

# DATASHEET

## SE/MARK FOG SIGNAL

- **Lightweight & easy to handle**
- **2 NM (nautical mile) range**
- **Directional sound output**
- **Compression driver monitoring**
- **Sound level control for test mode**
- **Standard NAI bus interface for power supply and communication**

The SeaMark fog signal is a directional fog signal, designed to be lightweight and easy to handle for service technicians.

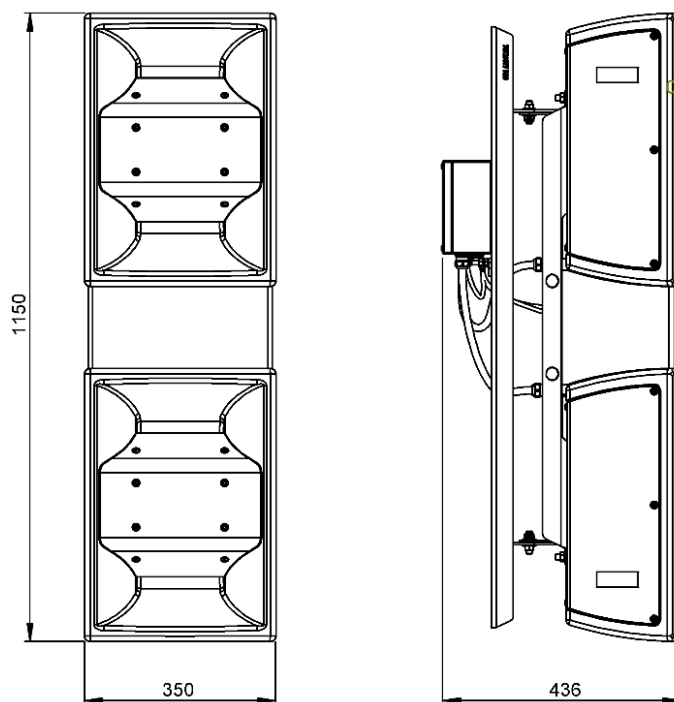
The fog signal consists of 2 units. Individually they produce a 0.5 NM sound output and when combined an effective 2NM output range.

Sound output is limited to  $\pm 50^\circ$  (-6 dB) in the horizontal plane to reduce energy consumption and eliminate interference caused by reflected sound waves from the structure on which it is mounted.

The NAI controller sets the blast code, triggers the fog signal and transmits status and error messages to the central ParkMaster™ Server and central SCADA system.

The fog signal satisfies IALA recommendation O-139A and E-109B.

## Dimensions & Weight



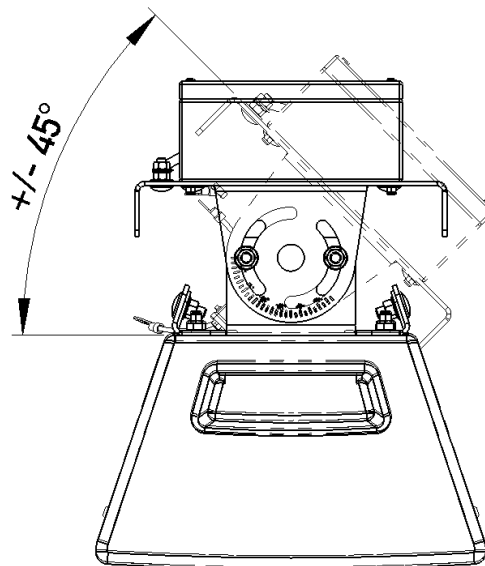
Dimensions (width x height x depth)	350 mm x 1150 mm x 436 mm
Dimensions of each unit FS005 (width x height x depth)	350 mm x 500 mm x 205 mm
Weight including junction box and mounting kit	48.7 kg
Weight of each unit FS005	14.9 kg

## Material

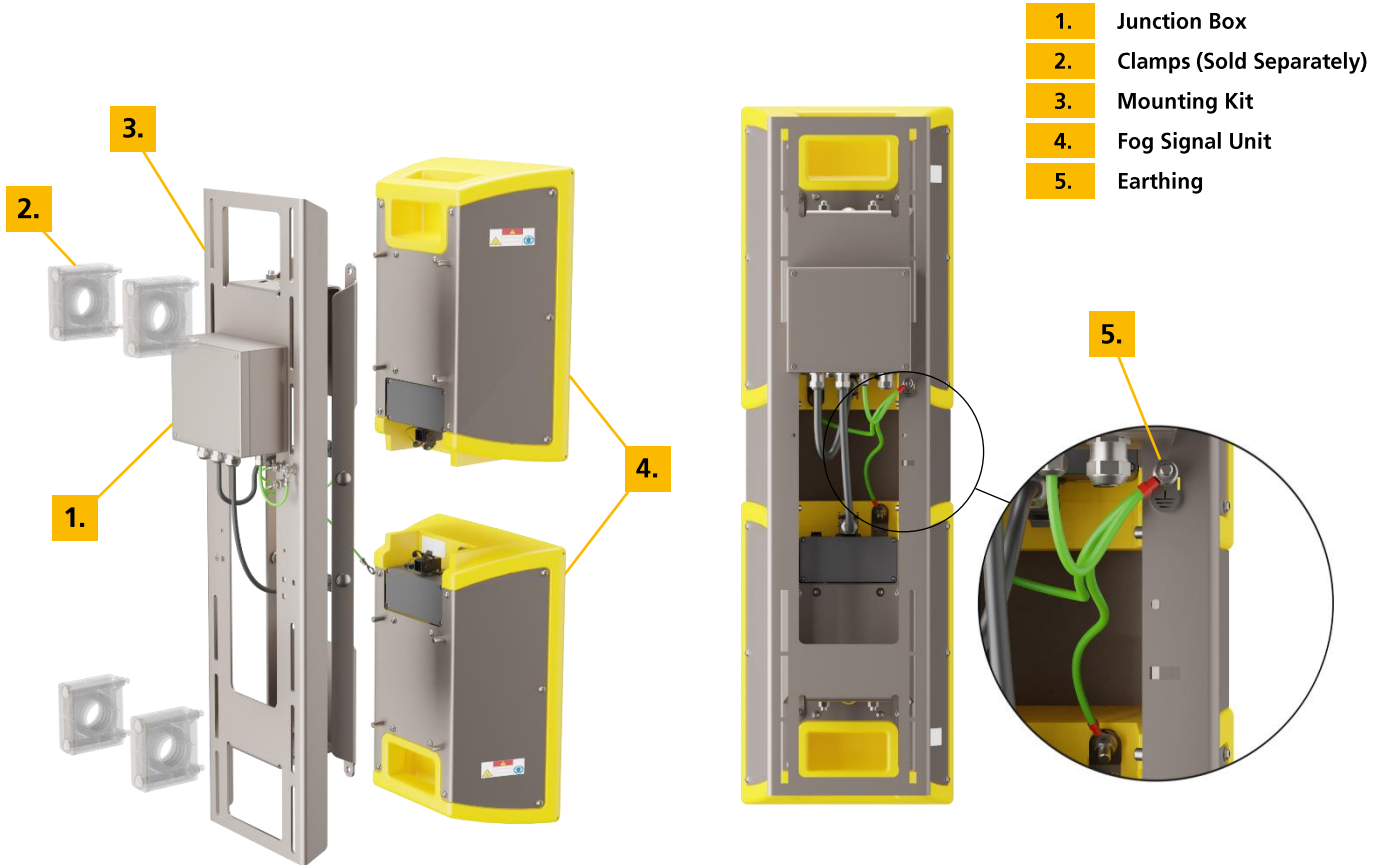
Housing	Polyethylene (colour: RAL1023)
Frontal plate, rear wall and mounting kit	Stainless-steel 316 L / 1.4404

## Acoustic System

Signal output	134 dB @ 1 m (FS02 unit); 127 dB @ 1 m (FS005 unit)
Output frequency	850 Hz
Nominal range	2 NM (FS02 unit); 0.5 NM (FS005 unit)
Signal output horizontal angle	$\pm 35^\circ$ (-3 dB); $\pm 50^\circ$ (-6 dB);
Classification of energy source radiation	RS3*



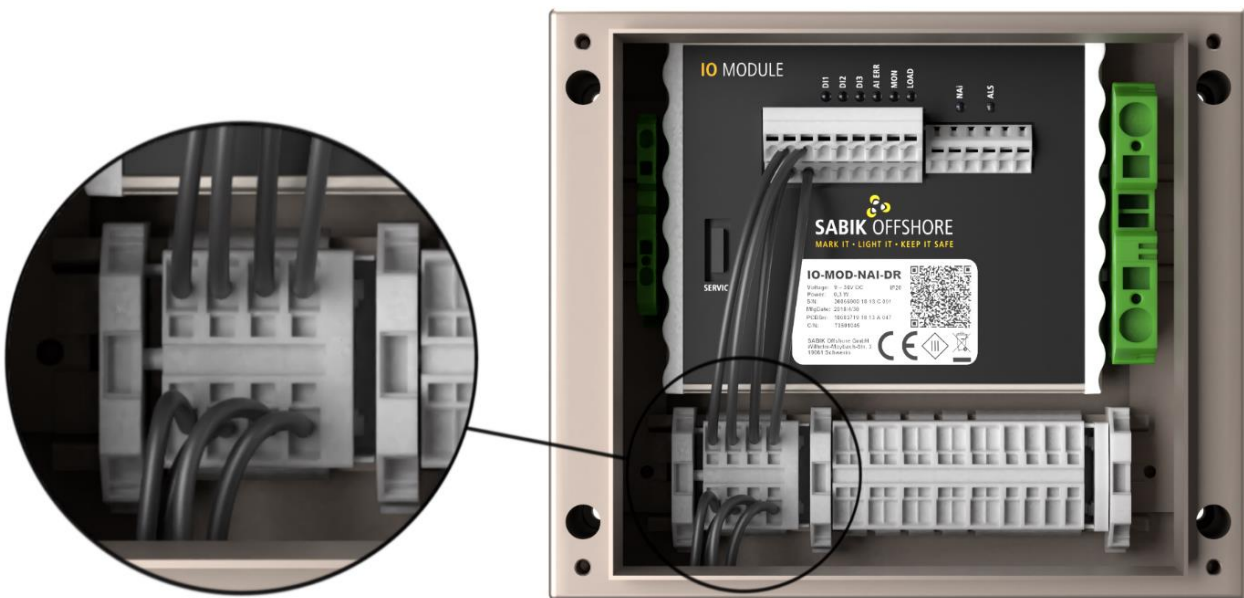
## Components



	Size	For Cable Diameter	Key Width
EMC Cable Gland	M20 x 1.5	8.0 – 15.0 mm	24 mm

## Electrical Connection

Electrical connection	Spring terminal block, max. 2.5 mm <sup>2</sup>
Operating voltage $V_{IN}$	DC 24.0 V (-25% / +15%)
Power consumption (Peak, $V_{IN} = DC 24 V$ )	54 W



1	VPI	Power supply input (Positive)
2	VN	Power supply input (Negative)
3	DP	NAi data (Positive)
4	DN	NAi data (Negative)

## Environmental Conditions

Ambient temperature (operation)	-25 °C to 55 °C
Ambient temperature (storage / transport)	-40 °C to 70 °C
Humidity (operation / storage / transport)	95 % r.h. up to 45 °C 70 % r.h. for T > 45 °C
Atmospheric pressure (operation / storage / transport)	80 kPa to 108 kPa
Degree of protection (acc. to IEC 60529)	IP66
Impact protection	IK08
Wind zone classification (acc. to IEC 61400-1 Ed. 4)	I
Lightning protection zone (acc. to IEC 62305-4:2010)	LPZ0 <sub>B</sub>

## Electrical Safety and Health

Protection class	Class III
Overvoltage protection	Class III
Pollution degree	3

## Reliability

MTBF	436.000 h
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## Compliance

Electromagnetic Compatibility	EN 61000-6-2:2005 EN 61000-6-4:2007 + A1:2011
Environmental	EN 60945:2002, category "exposed" IEC 61892-1:2019 IEC 61892-3:2019
Product Safety	EN 62368-1:2014 + AC:2015
Mechanical	EN 60945:2002, category "exposed" IEC 61892-1:2019 IEC 61892-3:2019

## Ordering Information

Item Number	Product ID	Option Name
30 29 12 00	FS02-NAI	SeaMark NAI 2 NM Fog Signal