

SENSORS

SS4 Door Sensor

TYPE **SS4-D-VTLA 144**

Multifunctional door sensor for distance, depth, temperature, tension, angle and stability.

- Multifunctional
- Increased battery capacity
- Robust and innovative construction
- 5 year warranty



SS4 DoorSensor

An important factor in all kinds of trawling is having control of your trawl doors. Water flow, speed, depth, wire length, bottom conditions and underwater currents all affect the performance of your doors and the trawl efficiency.

Functions in the new SS4 DS

DISTANCE	Door distance, bottom and pelagic trawl
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DEPTH	Door depth
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TEMPERATURE	Sea water temperature
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TENSION	Tension in trawl wires or sweeps
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ANGLE	Door angle (roll and pitch)
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STABILITY	Door stability (ScanFactor)
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The sensors can be bought with one or several functions, and can be upgraded later via license.

Construction

The new design with double casting of the electronics provides 100% protection. Scanmar's newly developed super plastic drastically reduces damage to the sensor from strokes, tension, or if the doors get hooked on the bottom.

Batteries and charging

With new long lasting lithium-ion batteries, charging is in many cases no longer an issue. Many are able to keep the sensor on the door for the whole trip, and only charge when back from the fishing ground.

Technical specifications

Distance	
Range	0-300 / 0-600 m
Accuracy	± 0.5% of value

Angle	
Roll angle	-90° to +90°
Pitch angle	-90° to +90°
ScanFactor roll	0° to +20°
ScanFactor pitch	0° to +20°
Accuracy	± 1°

Depth

Range (full scale)	300/600/1200/1800 m
Accuracy ¹	1 m

Temperature

Range	-5°C to +30°C
Accuracy	± 0.15°C

Tension

Range	12 ton
Accuracy	± 60 kg
Repeatability	± 30 kg
Overload	48 ton

Height²

Range	1 - 60 m
Accuracy	± 0.5% of value

Operation

Mounting position	Door
Mode	Master or slave
Trawl	Single, double and triple trawl
Update rate	3 to 20 sec
Operation time ³	Up to 700 ⁴ hrs (350 ⁵ hrs typical)
Max. depth	1500 m continuously (2000 m for a short period ⁶)

Uplink

Frequency range	38.9 - 43.4 kHz
Source level	170 - 191 dB //1uPa @ 1m
Beam width	55° (- 3dB)
Range to vessel ⁷	Approx. 2500 m (max power)

Distance measurement

Frequency	144 kHz
Source level	168 - 193 dB //1uPa @ 1m
Beam width	60° (- 3dB)

Battery

Smart battery	Lilon 10.8V / 7200 mAh
Charging time	Typ. 1.5 hour (QBC-X1)

Configuration

FID, measurement type (telegram), mounting position, depth range and uplink & transponder transmit power.

Weight

In air	6.7 kg
In water	2.0 kg

Available accessories and spare parts

Mounting kit trawl door	107705
Battery pack (standard)	108164
Battery pack (DoorHeight)	110754
Battery charger	QBC-X1

Environmental

Storage	-20°C to 55°C
Waste treatment of sensor	According to WEEE-directive