Simrad ES38-12

Split beam echo sounder transducer

Introduction

The **Simrad ES38-12** is a splitbeam transducer incorporating 32 piezo-ceramic elements distributed over four quadrants.

Order numbers

Transducer: KSV-111497 Mounting plate: 499-111492^(*) (*) This item must be ordered separately.

Technical specifications

The following specifications are valid when all four quadrants are wired in parallel. Note that the specifications may be altered without prior notice.

• Resonant frequency: 38 kHz

• Circular beamwidth: 12 ±2°

• Directivity: 210 ±20%

• Equivalent two-way beam angle: 0.027 ±20%

• Side lobes: \leq -17 dB

• Back radiation: \leq -26 dB

Nominal impedance: 15 Ω
(Each quadrant: 60 Ω)

• Transmitting response: 180.5 ±2 dB re 1μPa per V

 Receiving sensitivity, open circuit: -182,5 ±3 dB re 1V per μPa

• Electro-acoustic efficiency: 60%

 Max. pulse power input: Hull mounted: 1000 W In towed body: 1500 W

• Max. continuous input: 20 W1

Max. transducer depth: 150 m

• Cable length: 20 m

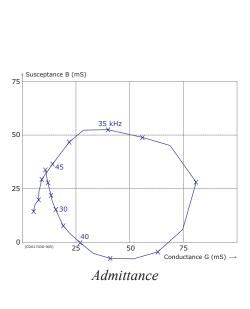
• Cable diameter: 10,6 mm

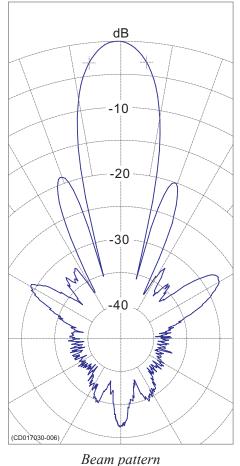
Weight without cable: 12 kg

• Storage temperature:

-20° to +55°C







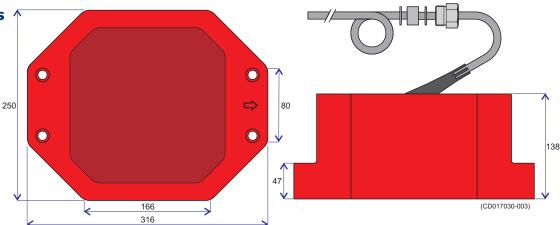




¹⁾ The ping rate (pings per second) multiplied with the pulse duration (in seconds), and then multiplied with the power output, must be less than 20 W.

Outline dimensions 4

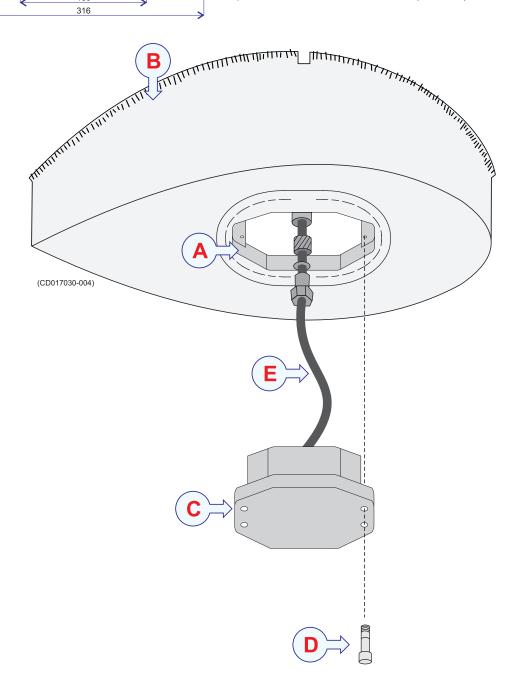
All dimensions in mm



Installation principle

- A Mounting plate
- B Steel blister
- C Transducer
- D Bolt, penetrates transducer and secures it to the mounting plate
- E Transducer cable, must run in cable conduit

For more information regarding the installation, refer to the *Simrad ES38-12 Installation manual*.



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