

Simrad ES120-7CD

Split beam echo sounder transducer

Introduction

The Simrad ES120-7CD is a 120 kHz split-beam composite transducer with a large bandwidth. This provides a fine range resolution, which is important for single fish detection and target strength measurements. The transducer has four quadrants. The ES120-7CD has been designed to withstand a large water pressure. It is therefore well suited for towed bodies.

Order numbers

Transducer: 324410

Clamping ring: ES1-203672

Mounting ring: ES1-204719

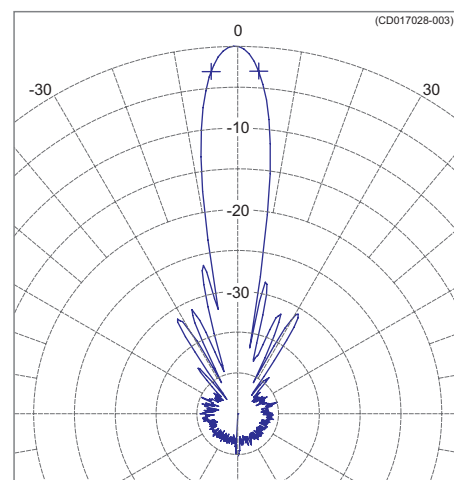
The clamping and mounting rings must be ordered separately.



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.

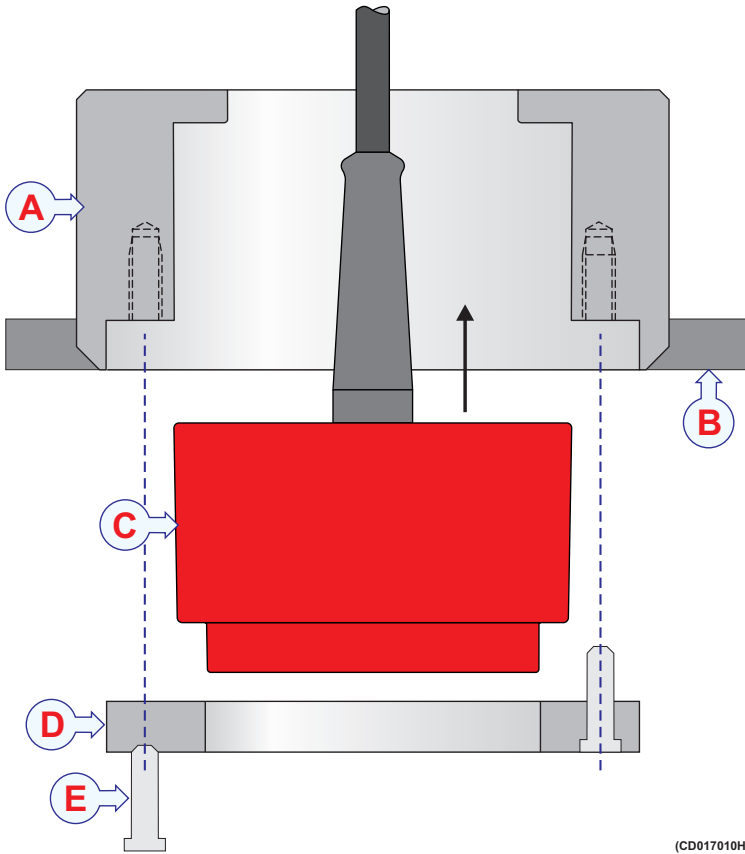
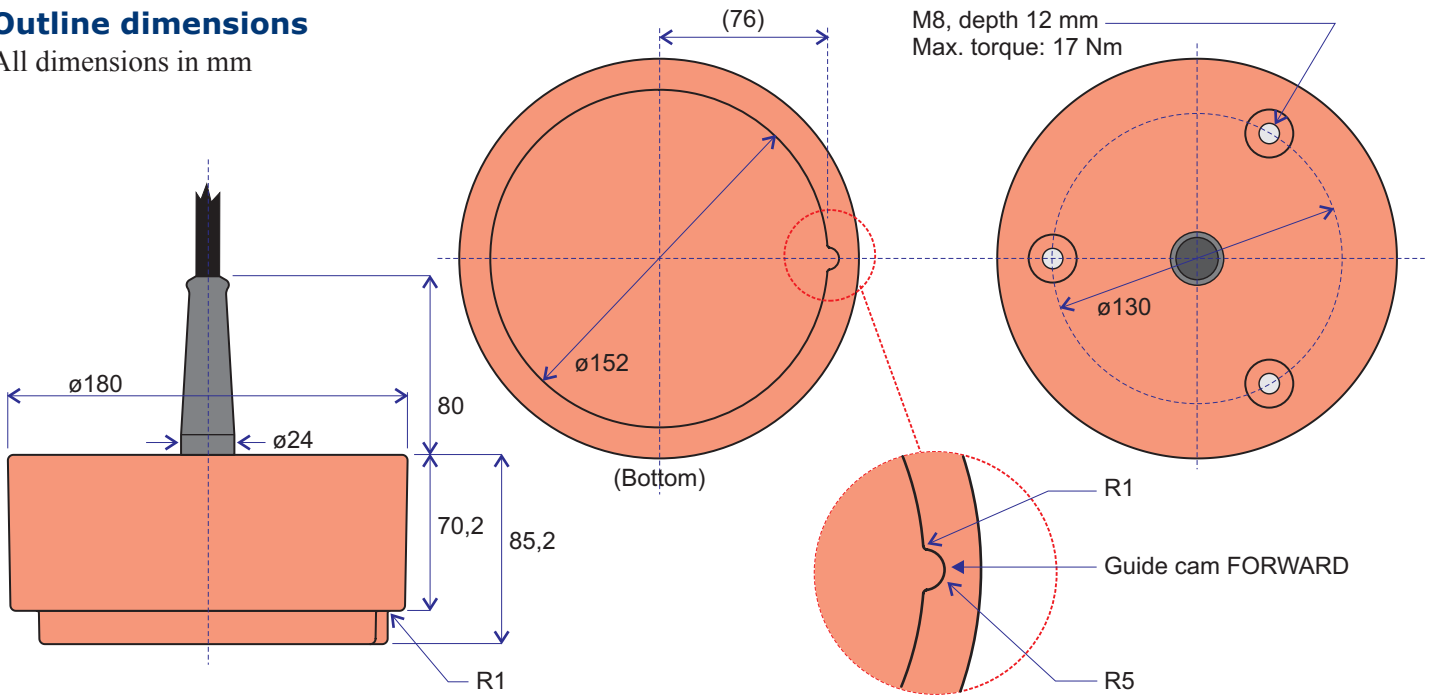
- Resonant frequency: 120 kHz
- Circular beamwidth: 7 deg
- Directivity: 28 dB
- Equivalent two-way beam angle: -20,7 dB
- Side lobes: Less than -23 dB
- Back radiation: Less than -35 dB
- Nominal impedance: 19 Ω (Each quadrant: 75 Ω)
- Transmitting response: 183 dB re 1 μ Pa per V
- Receiving sensitivity, open circuit: -187 dB re 1V per μ Pa
- Electro-acoustic efficiency: 0.6
- Max. pulse power input: 500 W
- Max. continuous input: 5 W
- Max. transducer depth: 1500 m
- Cable length: 1,5 m
- Connector: Burton 5501-2008
- Weight with cable: 4,5 kg
- Storage temperature: -20° to +55°C



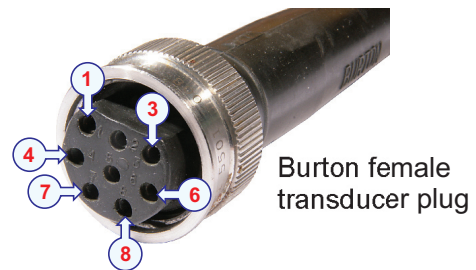
Beam pattern

Outline dimensions

All dimensions in mm

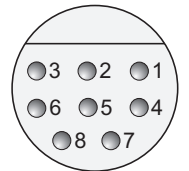


(CD017010H)



Pin 1	+	Q1	Aft starboard
Pin 4	-	Q2	Aft port
Pin 2	+	Q3	Fore port
Pin 5	-	Q4	Fore starboard
Pin 3	+		
Pin 6	-		
Pin 7	+		
Pin 8	-		

Male receptor



(CD017014D)

Burton underwater connector

Pin configuration

Installation principle

- A Mounting ring
- B Towed body's hull plating
- C Transducer
- D Clamping ring
- E Bolts

For more information regarding installation, refer to the *Simrad ES120-7CD Installation manual*.

Simrad

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