Ping Sonar - Altimeter & Echosounder

Single-beam underwater ranging | Confirmed current-product dual-supply configuration

ACOUSTICS

Maximum range	**50 m**
Minimum range	**0.2 m / 20 cm**
Depth rating	**300 m**
Beamwidth	**14 degrees**
Acoustic frequency	**200 kHz**
Range resolution	**10 cm at 30 m**

ELECTRICAL & COMMUNICATION

Communication supply	**5 V / 150 mA**
Power-stage supply	**12 V / 1 A max.**
External 12 V source	**At least 1.5 A**
TTL logic / baud	**3.3 V / 115200**
Native interface	**TTL Serial**
Recommended capacitor	**100-470 uF**

MECHANICAL REFERENCE

Body: 50 mm diameter, 83 mm long. Length to cable-gland end: 96.50 mm.

Rear mounting: 4 x M4 threaded holes, 6 mm deep, on a 30 mm pitch circle.

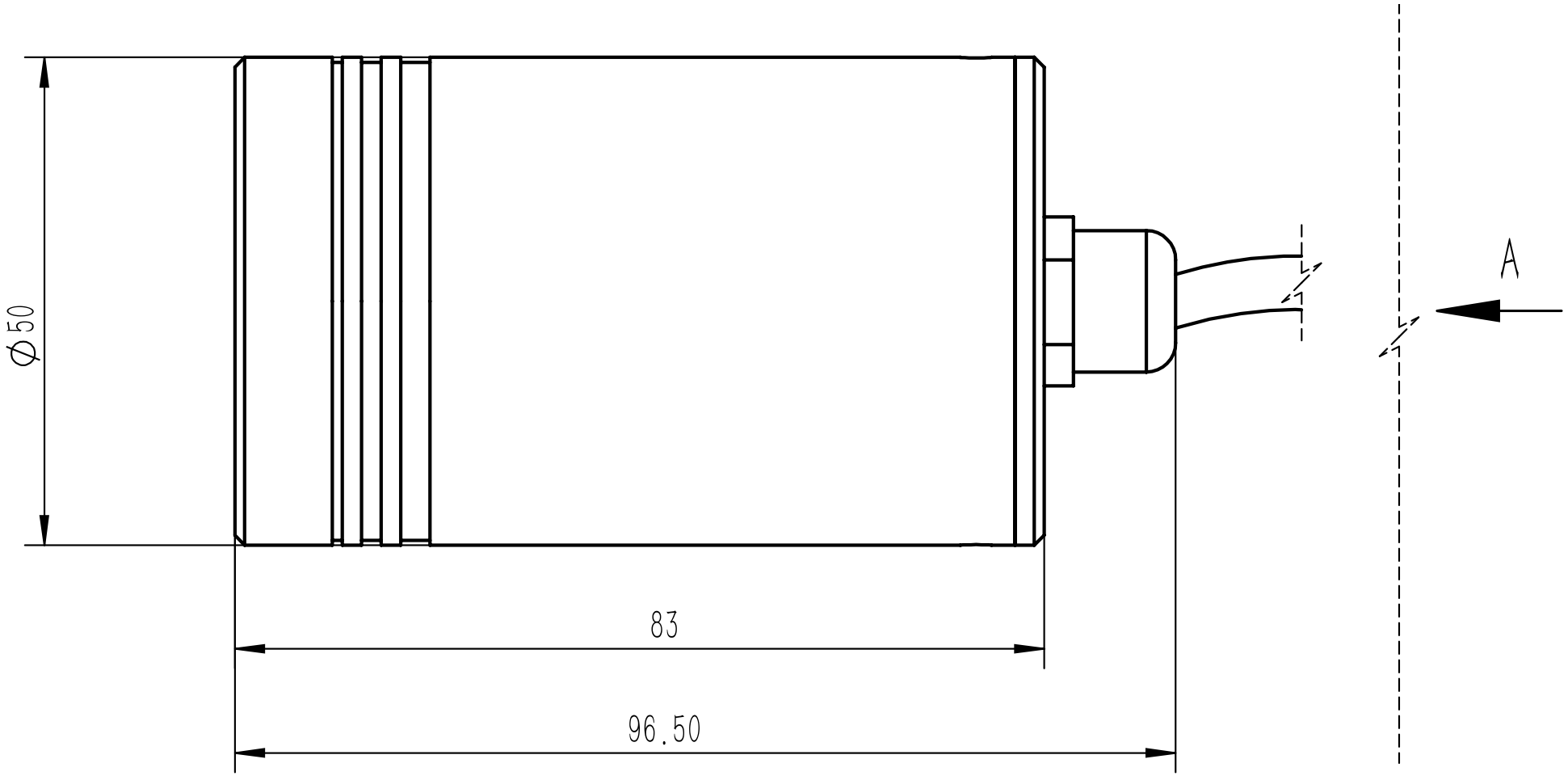
Outputs: strongest-echo distance and full echo response (echo strength versus time).

Use both designated GND leads; connect communication first, then the 12 V power stage.

See the separate user manual and wiring reference for lead colours and connection details.

Envelope dimensions - side view

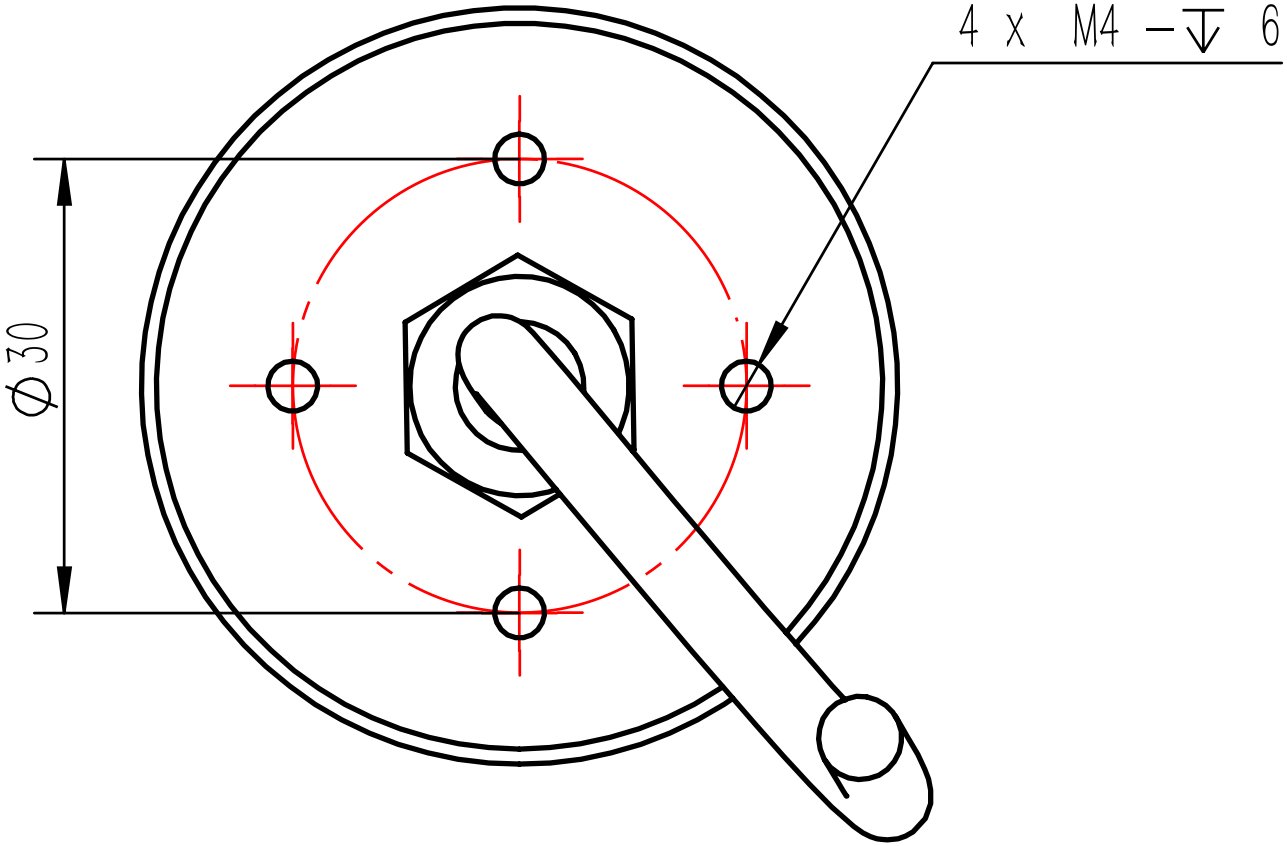
Original engineering geometry retained | All dimensions in millimetres



50 mm body diameter | 83 mm body length | 96.50 mm to cable-gland end

Rear mounting - View A

Original engineering geometry retained | All dimensions in millimetres



4 x M4 threaded holes, 6 mm deep

30 mm mounting-hole pitch circle