

1171-Series Scanning Sonar

650 m Multi-frequency Mini Sonar Head

(Subconn MCBHRA4M Series Connector configuration)



KONGSBERG

P/N 975-27110000

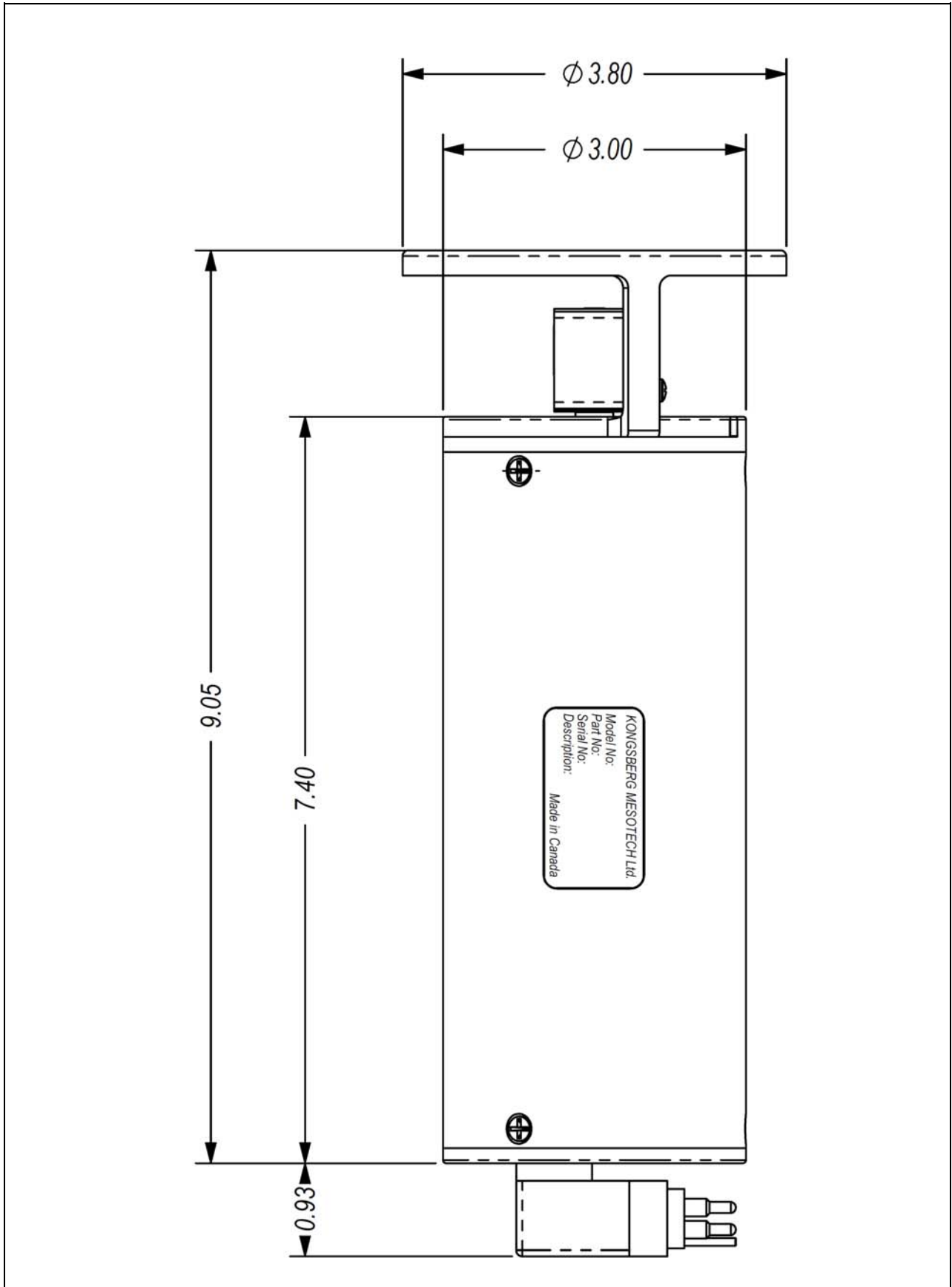
This 1171 Sonar Head is designed for applications where size and weight are critical performance criteria. A unique drive and sensor section design, together with improved hardware and software, has resulted in lower current draw and improved angle/range resolution. The design also provides extended operating frequencies and enhanced coverage at longer ranges when using the LFM CHIRP capability.

The sonar head is compatible is RS485 and RS232 compatible and is automatically sensed and configured at start up to match the telemetry link. The sonar head operation is configured and controlled using the MS1000 Software Processor.

Operating Frequency:	Tunable or user selectable presets : 625 kHz, 675 kHz, 750 kHz, 800 kHz
Beam Width:	1.7° x 20° Fan (nominal) @ 675kHz, 1.4° x 15° Fan (nominal) @ 800 kHz
Range:	0.5 - 100 m typical (@ 675 kHz) 0.5 – 75 m typical (@ 800 kHz) NOTE: Extended ranges are achievable using the LFM Chirp capability.
Range Resolution:	≥ 0.5 cm (determined by transmit pulse width and receive bandwidth settings)
Sampling Resolution:	≥ 0.5mm (function of range selection)
Scan Speed:	nominal 28 sec/360° @ 10 m and 0.45° step size (CW mode, 460 kbps) nominal 70 sec/360° @ 50 m and 0.45° step size (CW mode, 460 kbps)
Scan Angle:	360° continuous (software controlled)
Step Size:	0.45° - 7.2 (user selectable)
Transmit Pulse Widths:	5 µs to 1000 µs (auto selected for optimized operation)
Receive Bandwidth:	200 kHz max. (auto selected to suit pulse length & sample rate)
Telemetry :	RS485 or RS232 asynchronous serial data
Telemetry Rates:	Downlink: 9600 bps to 460 bps (Uplink: same speed as downlink)
Telemetry configurations	Fixed Downlink: 9600 bps to 460 kbps (user selected for compatibility with other serial communication equipment) Optimized Downlink: 9600 bps to 460 kbps (auto set to highest rate allowed by the quality of the telemetry link)
Power Requirement:	22-26 VDC @ ≤ 0.6 A
Temperature Range:	-10 to +40°C operating -30 to +40°C storage
Operating Depth:	650 m
Connector:	Subconn MCBHRA4M
Materials:	Alum 6061-T6, 300 Series S.S., Urethane
Finish:	Anodize, Black MIL-A-8625 type II
Dimensions:	Diameter: 3.0 in/76 mm Length: 9.05 in/230 mm (excluding connector)
Weight	In Air: 4.1 lb/1.9 kg In Seawater: 2.0 lb/0.9 kg

Specifications subject to change without notice
P/N 975-27117901 Iss 1.0

KONGSBERG MESOTECH LTD. 1598 Kebet Way, Port Coquitlam B.C. Canada V3C 5M5
Tel: (604) 464 8144 Fax: (604) 941 5423



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