Commercial in Confidence

A WHOLE NEW VISION UNDERWATER

FarSounder, Inc.

Drawing Package for the FarSounder-500

(F31602 Rev. 1.3.0)

FarSounder, Inc.
151 Lavan Street
Warwick, RI 02888
United States

phone: +1 401 784 6700

info@farsounder.com
www.farsounder.com

Revision Issue Date: September, 2013

Included Drawings

D71767 (Rev 1.1.2) – Transducer Module

D71775 (Rev 1.0.1) – Power Module (bulkhead mount)

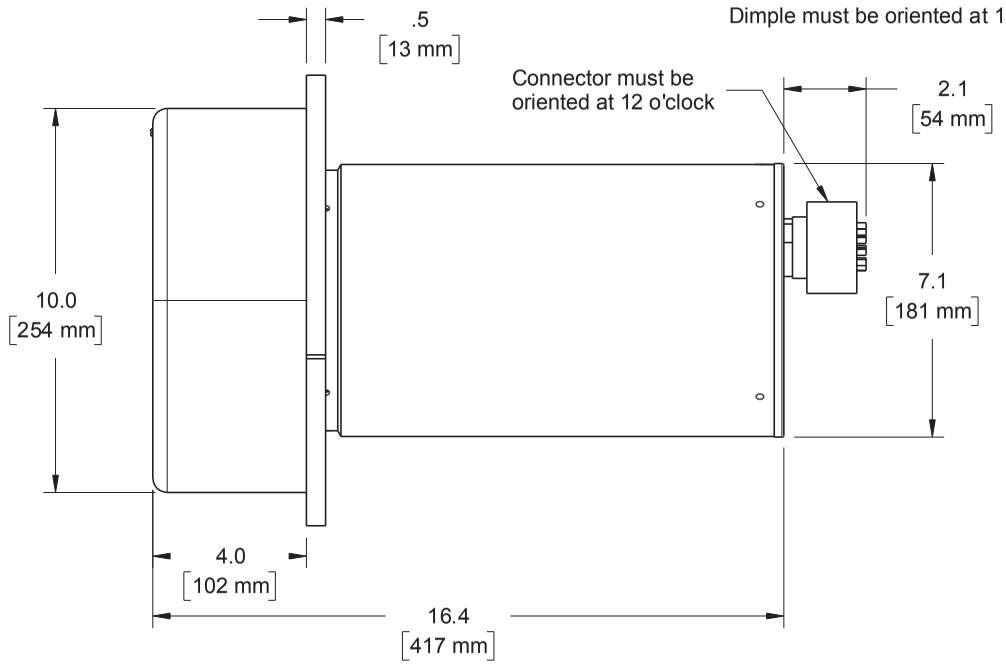
D31598 (Rev 1.2.0) – Wiring Diagram

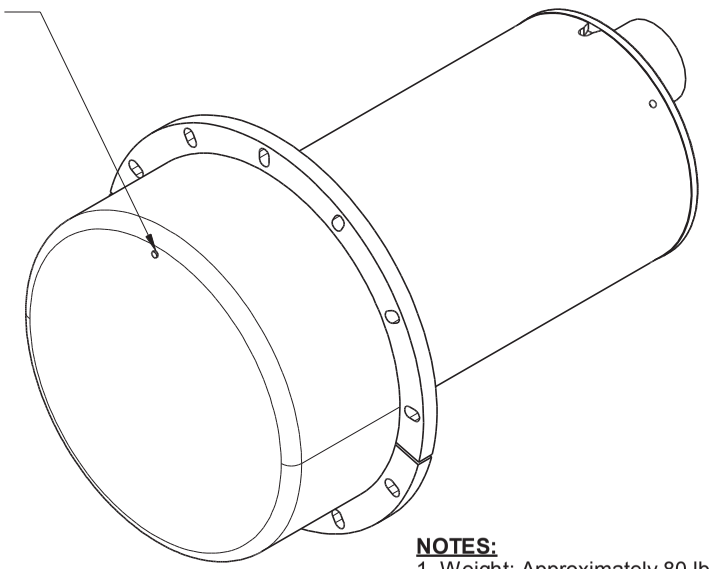
D31603 (Rev 1.5.0) – Fairing Concepts

Overview

The FarSounder-500 3D Forward Looking Obstacle Avoidance Sonar system replaces the FS-3DT sonar. The system consists of a Transducer Module, Power Module, Computer, and Transducer Module Cable.

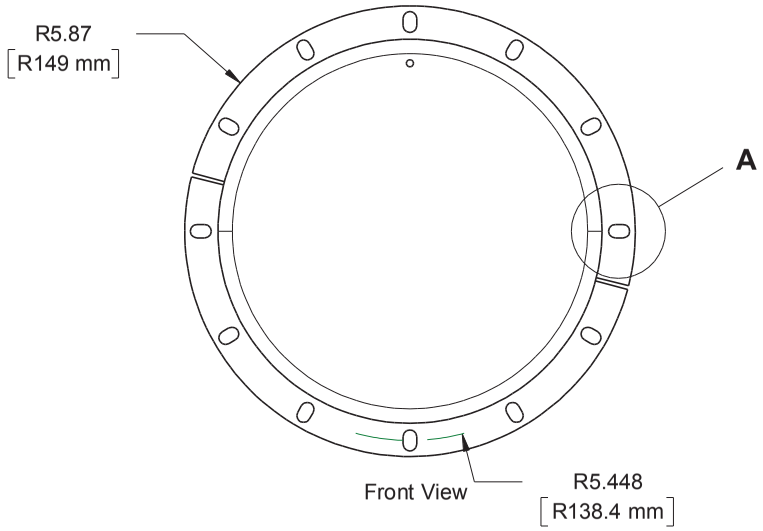
The Power Module is only available as bulkhead mountable. The rack mount version is no longer available.



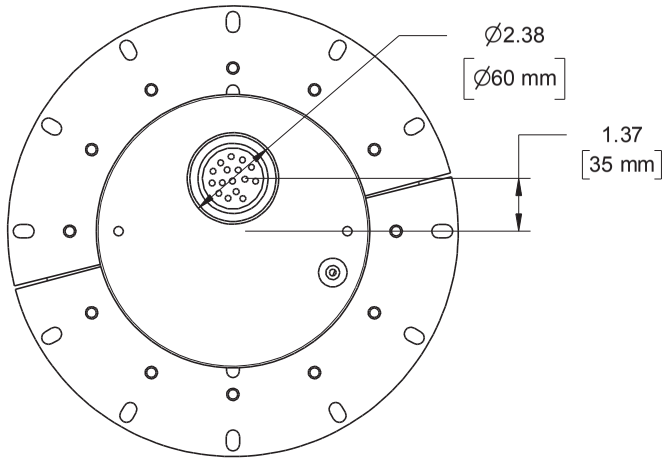


NOTES:

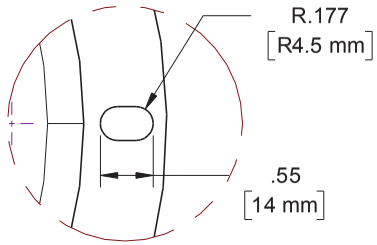
1. Weight: Approximately 80 lbs (36.4 kg)
2. Material: Stainless 316/316L
3. DO NOT PAINT URETHANE
4. Leave at Least 19 Inches (480 mm) Behind Connector for Cable Bend Clearance
5. Connector is underwater wet matable



Front View



Rear View



Detail A

TOLERANCES UNLESS NOTED			
.X	.XX	.XXX	Angles
± .050	± .010	± .003	± .5°
CONCENTRICITY .004 TIR			
PRIMARY UNITS ARE INCHES			

FarSounder, Inc.

DRAWING DESCRIPTION: **Transducer Module**

PROJECT: **SH4 Transducer Module**

DRAWING NUMBER: **D71767**

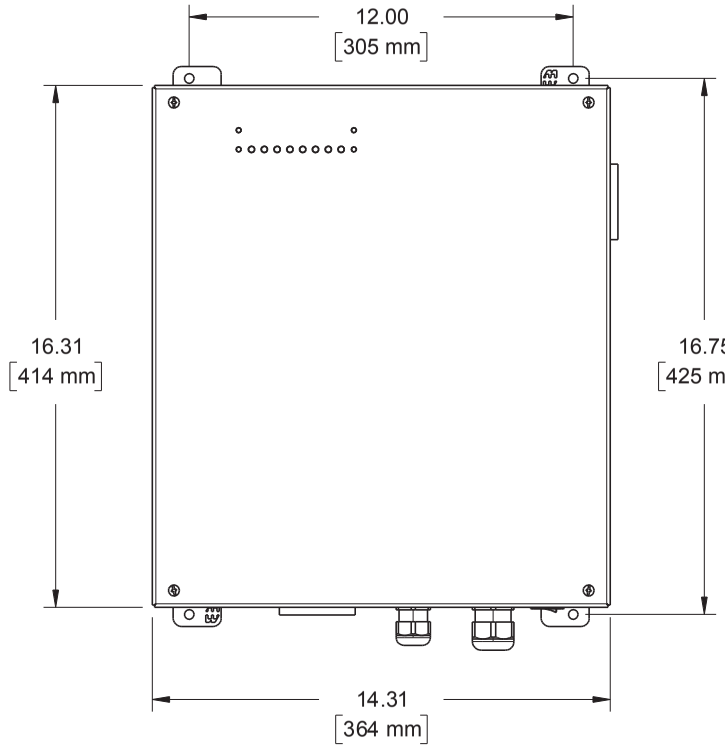
PART NUMBER: **F71767**

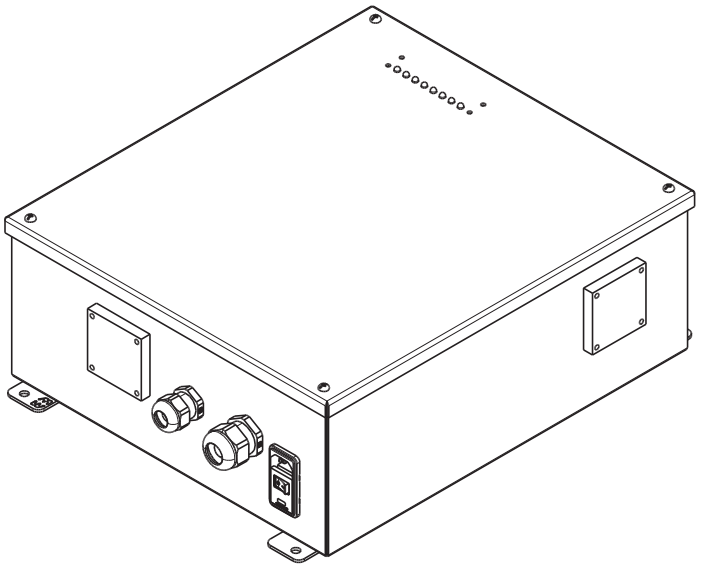
Scale: n/a

Date: 2012/08/21

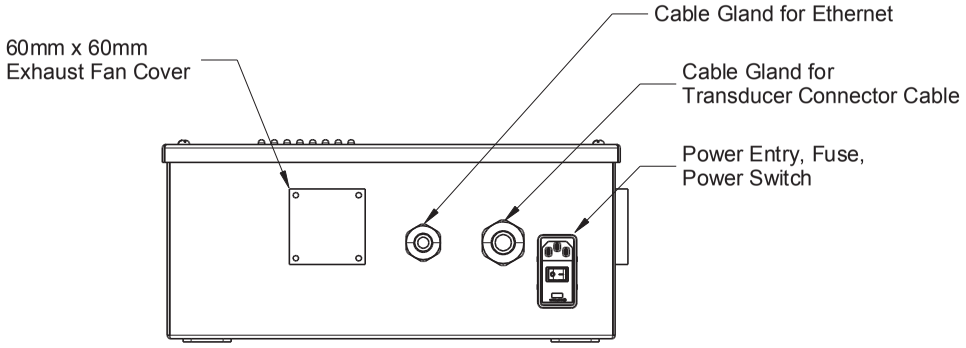
Page 1 of 1

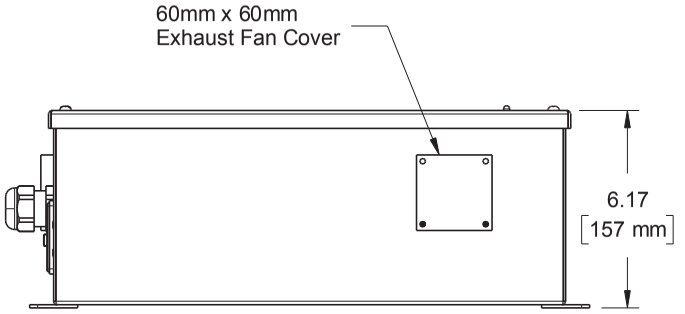
REVISION: **1.1.2**





NOTES:
Unit NOT intended for wet or moist environment.
Powered by 110/220V 50/60Hz
Allow 8 inches (203mm) min. clearance behind unit for cable connections
Minimum bend radius of Transducer Module Connection Cable: 6 in (152mm)
Enclosure material: steel





TOLERANCES UNLESS NOTED			
.X	.XX	.XXX	Angles
± .050	± .010	± .003	± .5°
CONCENTRICITY .004 TIR			
PRIMARY UNITS ARE INCHES			

FarSounder, Inc.

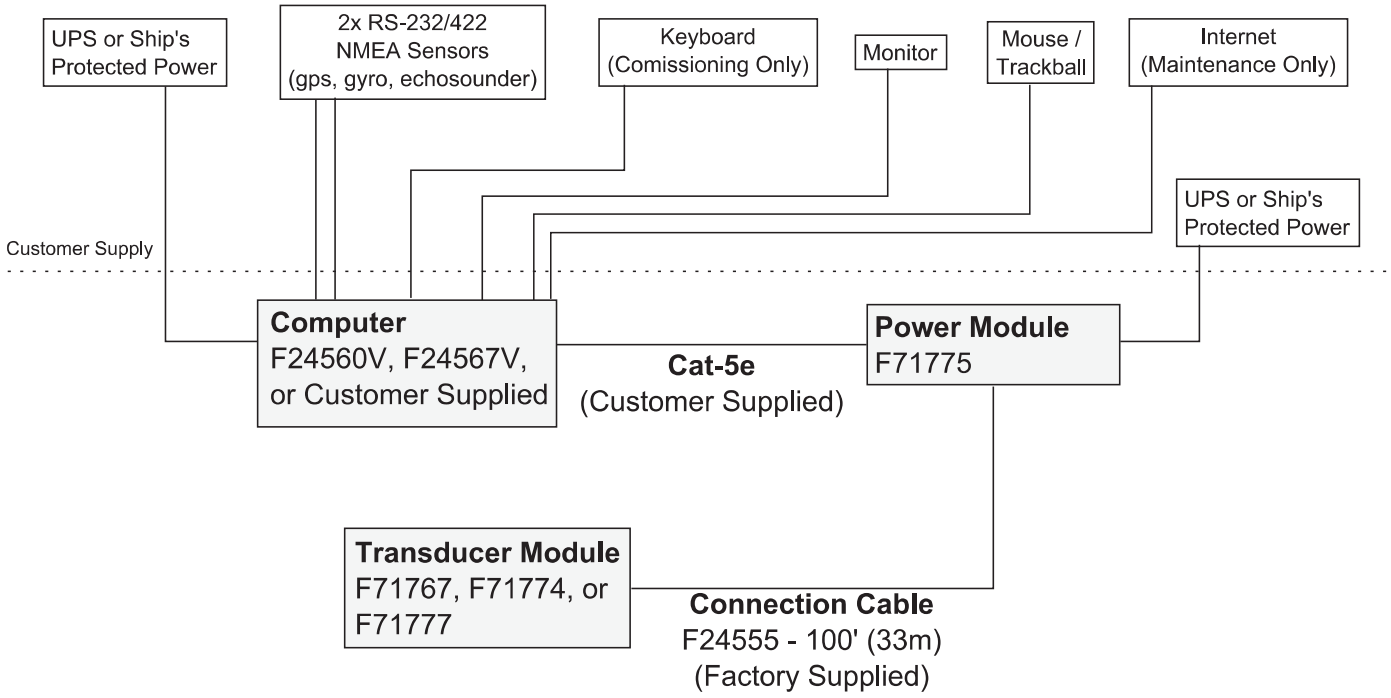
DRAWING DESCRIPTION: **Power Module (Bulkhead Mount)**

PROJECT: **Power Module**

DRAWING NUMBER: **D71775**

PART NUMBER: **F71775**

Scale: n/a | Date: 2012/08/21 | Page 1 of 1 | REVISION: **1.0.1**



TOLERANCES UNLESS NOTED			
.X	.XX	.XXX	Angles
± .050	± .010	± .003	± .5°
CONCENTRICITY .004 TIR			
PRIMARY UNITS ARE INCHES			

FarSounder, Inc.

DRAWING DESCRIPTION: **Wiring Diagram**

PROJECT: **Navigation Sonars**

DRAWING NUMBER: **D31598**

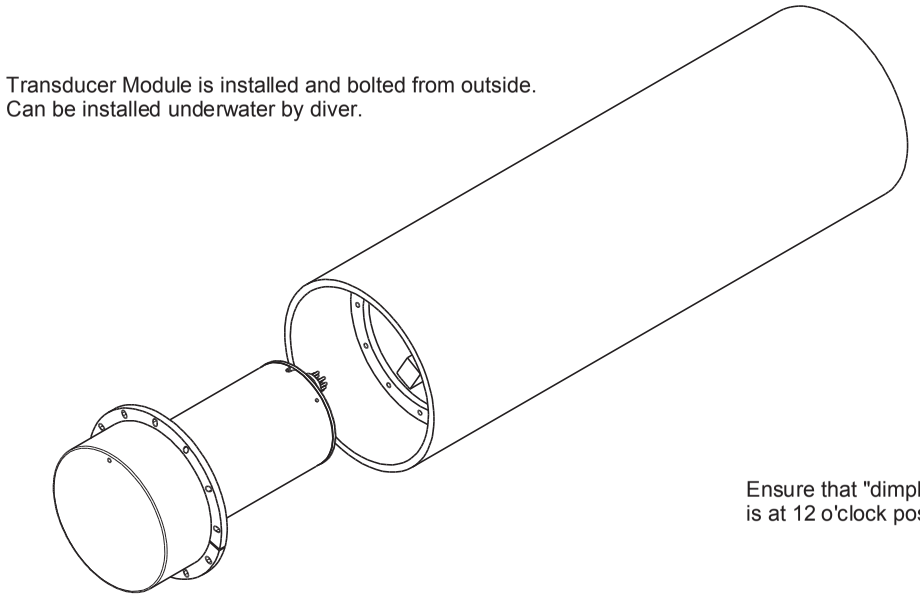
PART NUMBER:

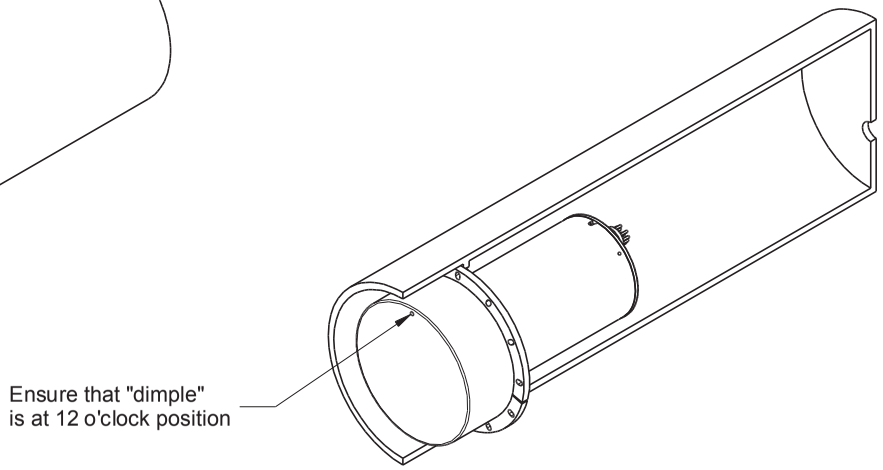
Scale: n/a

Date: 2013/09/13

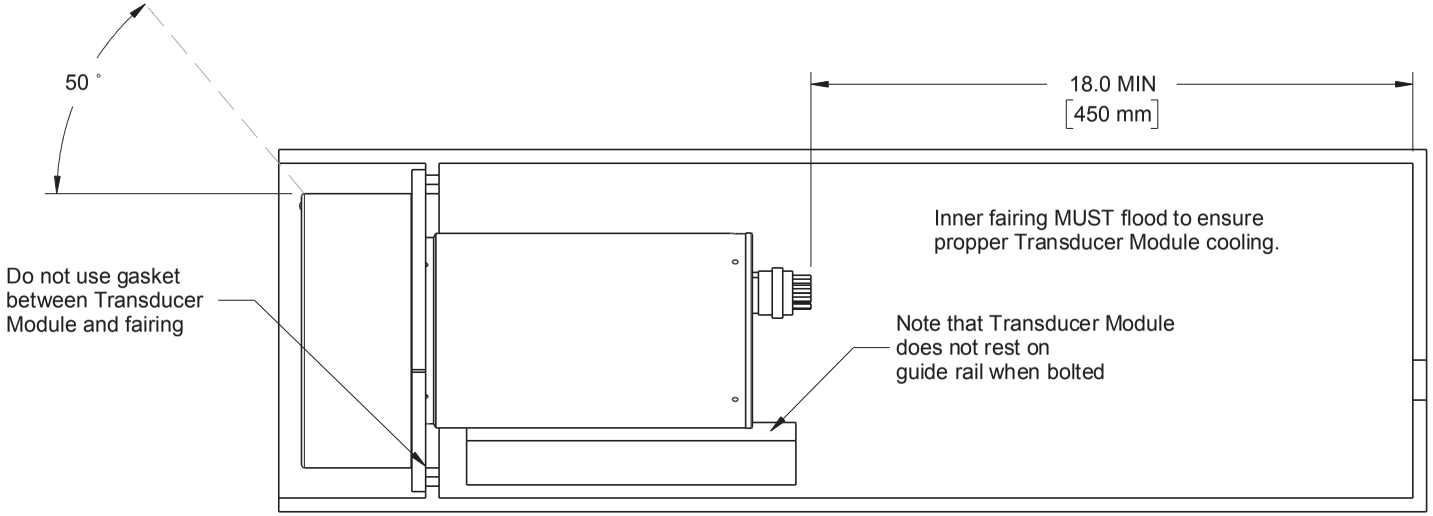
Page 1 of 1

REVISION: **1.2.0**





Cross Section of Installed Transducer Module



Cross Section of Installed Transducer Module

NOTES, UNLESS OTHERWISE SPECIFIED:

1. These drawings are provided by FarSounder for reference only. Customer is responsible for ensuring proper design verification and modification for integration into ship's hull. FarSounder is not responsible for actual architectural design.
2. Fairing not provided by FarSounder.
3. Fairing tube ID can be larger but must accomodate transducer module.
4. Fairing tube can be longer but must ensure minimum cable clearance and bend radius.

TOLERANCES UNLESS NOTED			
.X	.XX	.XXX	Angles
± .050	± .010	± .003	± .5°
CONCENTRICITY .004 TIR			
PRIMARY UNITS ARE INCHES			

FarSounder, Inc.

DRAWING DESCRIPTION: **Fairing Concept**

PROJECT: **FarSounder-500**

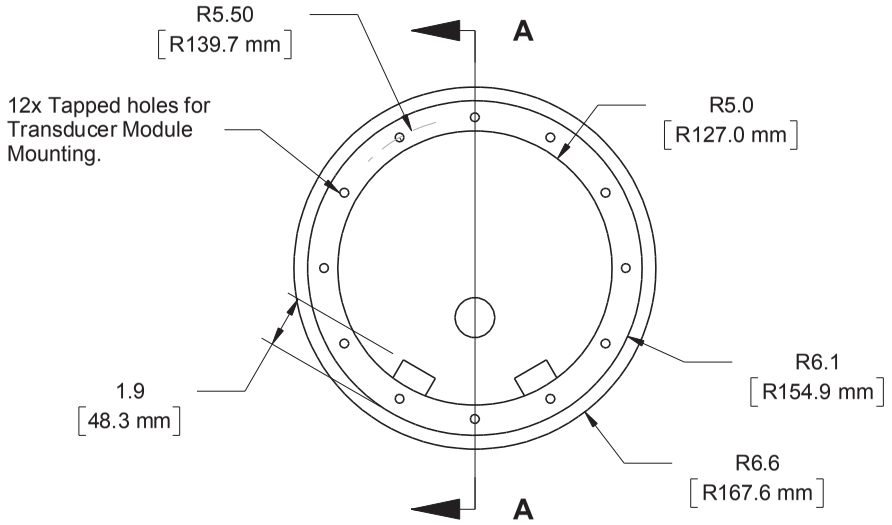
DRAWING NUMBER: **D31603**

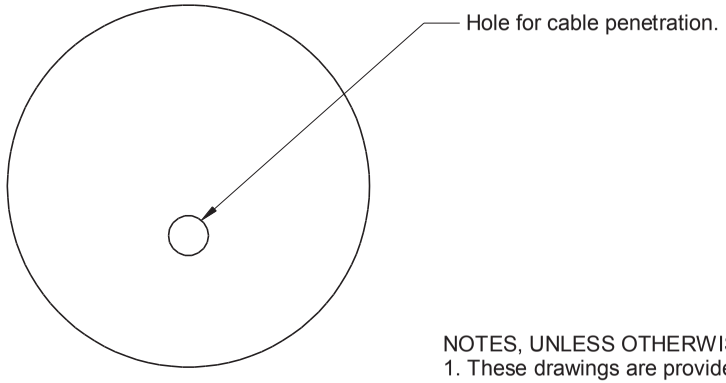
PART NUMBER:

Scale: n/a

Date: 2012/08/21

REVISION: **1.5.0**





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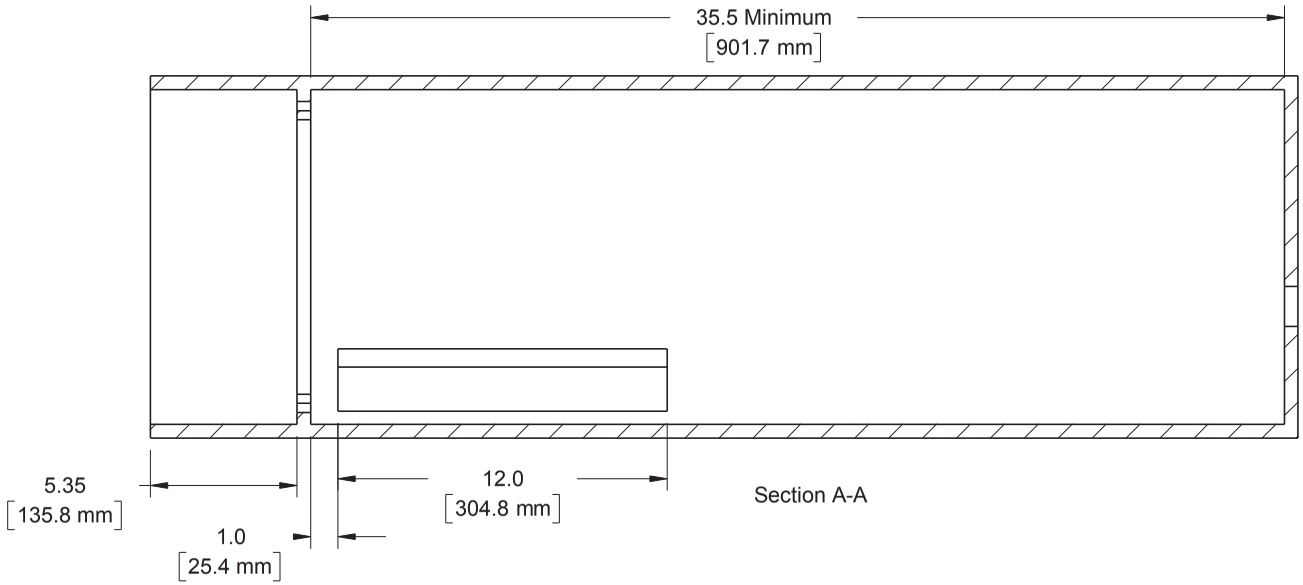


TOLERANCES UNLESS NOTED			
.X	.XX	.XXX	Angles
± .050	± .010	± .003	± .5°
CONCENTRICITY .004 TIR			
PRIMARY UNITS ARE INCHES			

FarSounder, Inc.

DRAWING DESCRIPTION: **Fairing Concept**

PROJECT: **FarSounder-500**

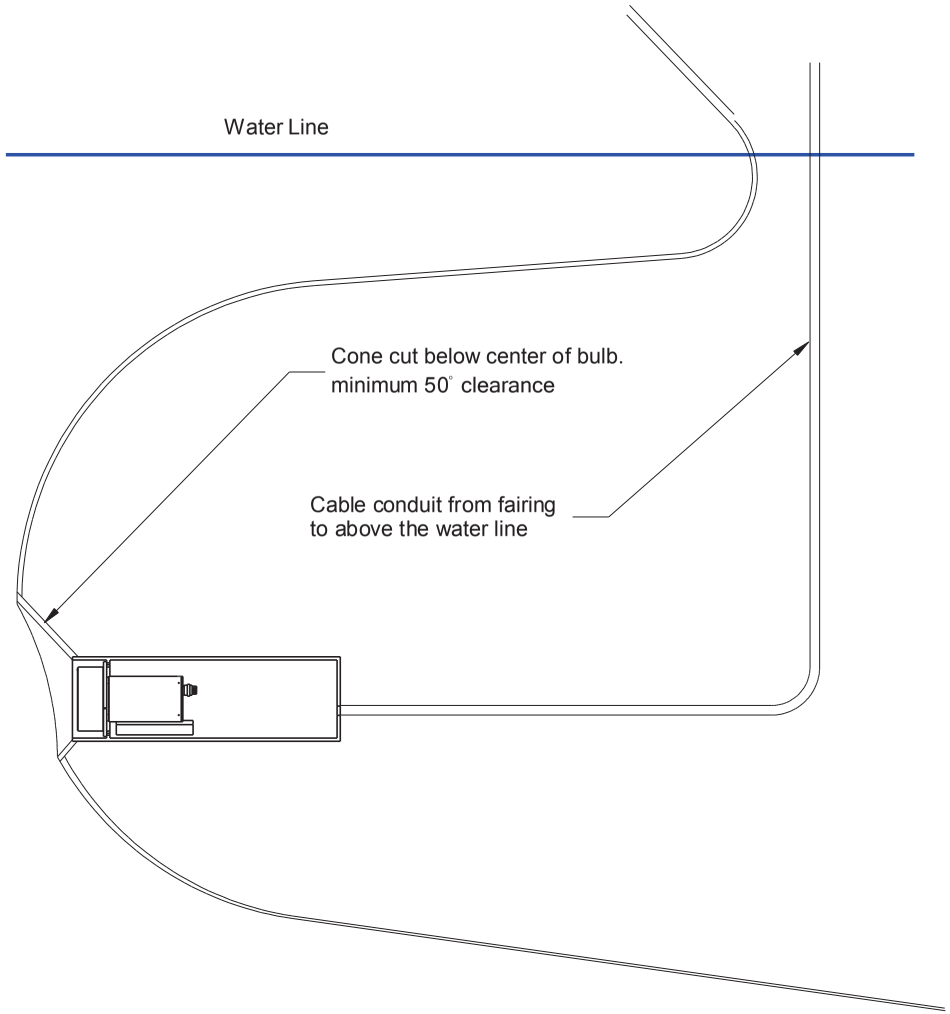
DRAWING NUMBER: **D31603**

PART NUMBER:

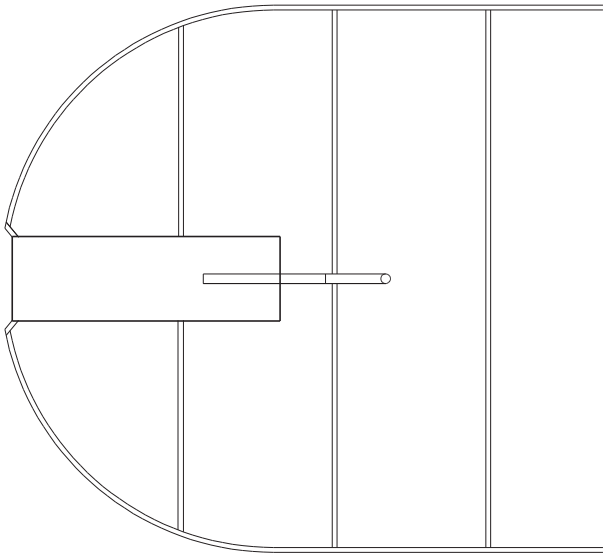
Scale: n/a

Date: 2012/08/21

REVISION: **1.5.0**



Cross Section Through Centerline



Plan View Through Fairing

TOLERANCES UNLESS NOTED			
.X	.XX	.XXX	Angles
± .050	± .010	± .003	± .5°
CONCENTRICITY .004 TIR			
PRIMARY UNITS ARE INCHES			

FarSounder, Inc.

DRAWING DESCRIPTION: **Bulb Example**

PROJECT: **FarSounder-500**

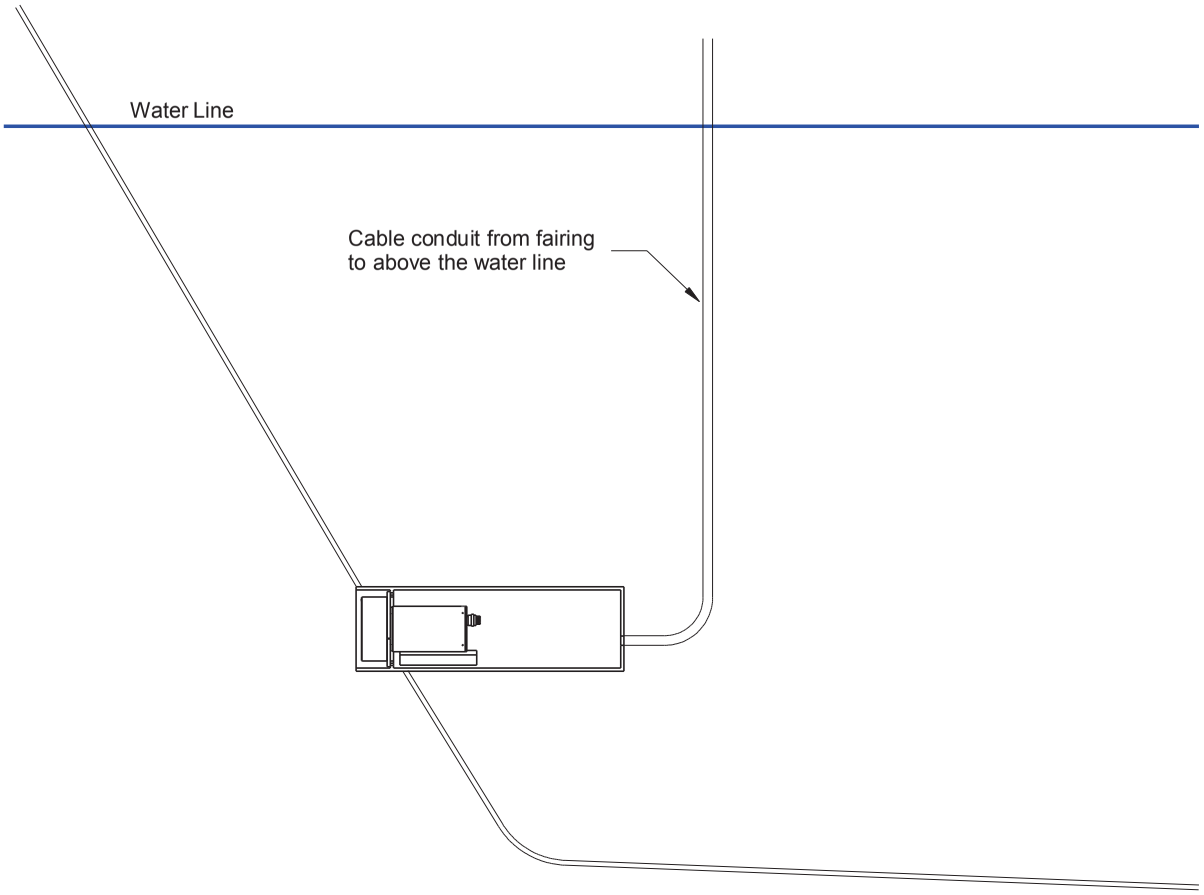
DRAWING NUMBER: **D31603**

PART NUMBER:

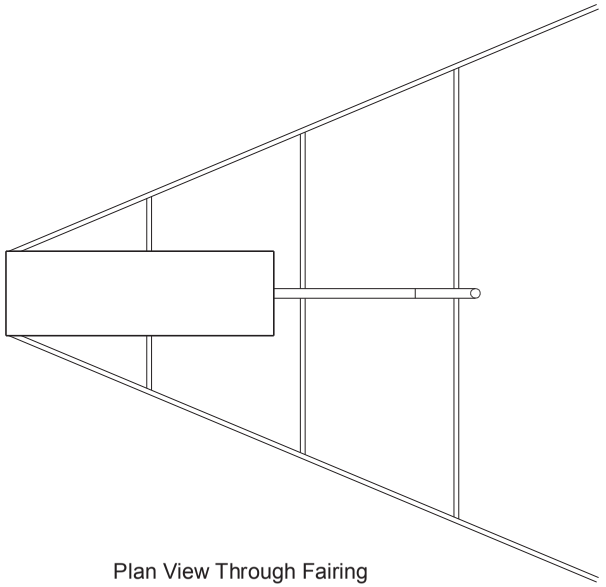
Scale: n/a

Date: 2012/08/21

REVISION: **1.5.0**



Cross Section Through Centerline



Plan View Through Fairing

TOLERANCES UNLESS NOTED			
.X	.XX	.XXX	Angles
± .050	± .010	± .003	± .5°
CONCENTRICITY .004 TIR			
PRIMARY UNITS ARE INCHES			

FarSounder, Inc.

PROJECT: **FarSounder-500**

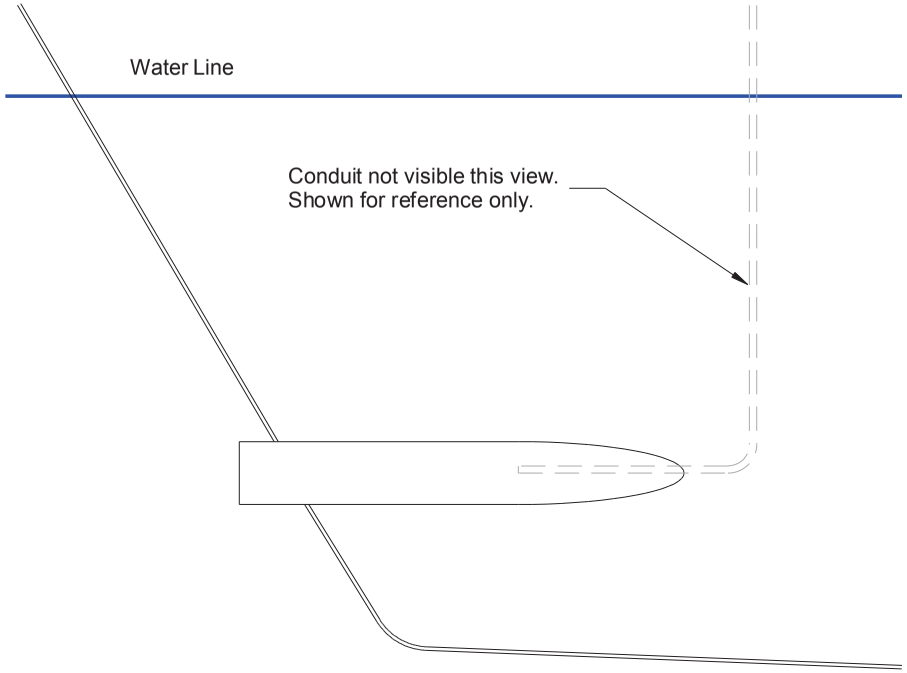
Scale: n/a Date: 2012/08/21

DRAWING DESCRIPTION: **Stem Centerline Example**

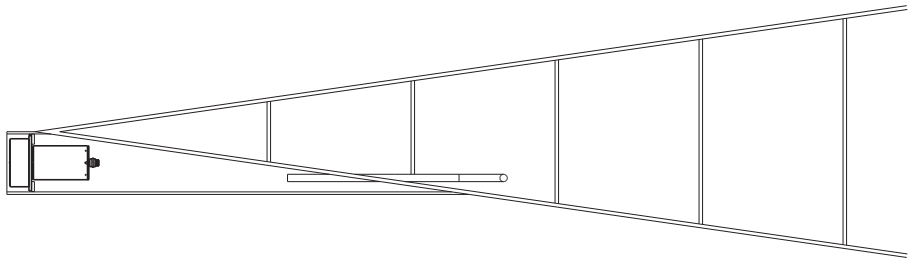
DRAWING NUMBER: **D31603**

PART NUMBER:

REVISION: **1.5.0**



Side View from Outside Hull



Plan View Through Fairing

TOLERANCES UNLESS NOTED			
.X	.XX	.XXX	Angles
± .050	± .010	± .003	± .5°
CONCENTRICITY .004 TIR			
PRIMARY UNITS ARE INCHES			

FarSounder, Inc.

PROJECT: **FarSounder-500**

Scale: n/a

Date: 2012/08/21

DRAWING DESCRIPTION: **Side of Stem Example**

DRAWING NUMBER: **D31603**

PART NUMBER:

REVISION: **1.5.0**