



Electronic Highway Crossing Bell

Ansaldo STS USA Part Numbers	
N46730701	OB-1 360 Degree Broadcast
N46730702	UB-1 180 Degree Broadcast



- ◆ Description
- ◆ Installation

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Revision History

Rev.	Date	Nature of Revision
1	February 2009	Initial Issue

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1. INTRODUCTION

The electronic highway crossing bell is a solid-state electronic bell that was designed using requirements taken from AREMA manual part 3.2.6.1, "Recommended Design Criteria for an Electronic Highway-Rail Grade Crossing Bell (Reaffirmed 2000)." Two versions are available. Model OB-1 is omnidirectional and broadcasts in a 360 degree pattern. Model UB-1 is unidirectional and broadcasts in a 180 degree pattern. Both models will mount on a 4 or 5 inch mast. Electrical connections are made to standard AAR binding posts. The bell contains no user-serviceable parts and should be returned to the ASTS USA Service Center for repair.

2. SPECIFICATIONS

FCC Part 15 Compliant

Environmental per AREMA C&S manual 11.5.1 Class B

Vibration and Shock per ASTS USA spec EU-7997 Class B

OB-1 Sound Pressure Level: 75 dBA (minimum) – 105 dBA (maximum) @ 10 feet. Measured in a 360 degree plane around the perimeter of the housing.

Operating Power 12 volts dc, ± 3 volts, less than 0.5 Amps

Impulses: 100 to 325 per minute

Mast Mounting 4 or 5 inch mast

3. INSTALLATION

Proceed as follows to install the OB-1 and UB-1 units:

NOTE

The units are designed for direct current (DC) operation only.
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1. Connect the 12 volt positive lead from the power source to the AAR terminal labeled +12V on the bottom of the unit.
2. Connect the negative (ground) lead from the power source to the AAR terminal labeled - on the bottom of the unit.
3. Position the unit on the mast.

4. Orient the UB-1 unit so that the screened opening is facing in the direction in which the sound is to be directed. The OB-1 unit does not need to be orientated.
5. Securely tighten the three screws that are located on the mounting base.
6. Tighten the nuts securely to the base and ensure that the lock washers are fully compressed.

4. TECHNICAL SUPPORT

The Rapid Action Information Link Team (RAIL Team) is a group of experienced product and application engineers ready to assist you to resolve any technical issues concerning this product. Contact the RAIL Team at 1-800-652-7276 or by e-mail at railteam@ansaldo-sts.us.





End of Manual