



**NOVAX**  
INDUSTRIES CORPORATION

With over twenty-five years of experience in the design and Manufacture of **Audible Warning Signals** and **Traffic Signal Control** solutions, Novax proudly presents the DS100™ Series APS for Train Crossings. **Part Number DS101-DC-EVTR-1040**



# Series DS100™

## **Novax Model DS101-DC-EVTR-1040**

DC Series Train Crossing  
Audible Warning Signal  
Utilizes Leading Edge  
**Technology.**

- ❑ **Approved Train Crossing Sound**
- ❑ **Intelligent Dynamic Proportional Volume Compensation for high audibility**
- ❑ **10 to 30 VDC Power for Standard Rail Crossing Operation**
- ❑ **Maximum Volume Settings are selectable for rail crossings in residential areas**
- ❑ **Custom Sounds are Available that can be Easily Programmed for the Crossing**



## DS101-DC-EVTR-1040 Train Crossing Audible Warning Signal **INSTALLATION GUIDE**

### Outputs

Sound File: **EVTR1040**

PARAMETER	SOUND #1	SOUND #2	SOUND #3	SOUND #4
Sound Type	Train Bell	Train Bell	Train Bell	Train Bell
MAX Volume Level	65dB	70dB	75dB	80dB
Standards	Per MUTCD Standard	Per MUTCD Standard	Per MUTCD Standard	Per MUTCD Standard
Note:	Custom Sound and Voice Available Per Order			

### General Description:

Up to 4 Train Bell Sounds with different Volume level can be selected with DSW1 Sound Select Switch.

The User can select a Train Bell sound with maximum volume level of 65dB, 70dB, 75dB or 80dB. A

**DIPswitch Designation label** is provided inside the Enclosure.

### Volume Adjustment:

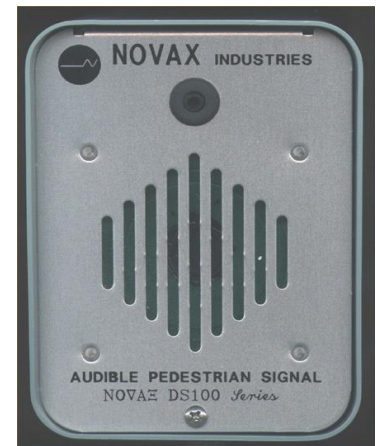
The volume adjustment on the faceplate facilitates simple installation. Turn the control clockwise to increase the volume.

If the volume must be altered, it is best adjusted during a time of low street noise.

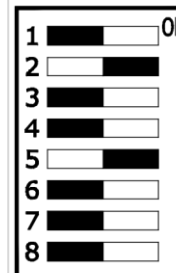
### Installation:

- 1) Remove the Device from Packaging and check for Possible Damage. If Damaged, Return to Either Address on the Back of this Manual.
- 2) Drill a ½" Hole into the Top of the Pedestrian Signal Head.
- 3) Place the Audible Ped Signal (APS) Wires thru the Hole and then Mount the Heavy-Duty Swivel Arm using the Lock Washer and Nut provided. Loosen the Swivels Side Locking Nut and Orient the Head such that it is Tilted Forward and in the Direction of the Crosswalk. Tighten all Fittings.
- 4) Terminate the APS Wires as follows:
  - Red ..... +10 to +30VDC
  - Black..... DC Common
  - Green ..... Protective (Earth) Ground
- 5) Check Operation of APS. **No Other Adjustment should be Necessary.**
- 6) If Volume Level Adjustment is required, use a Small Slotted Screwdriver at the Top Front of the APS and Adjust the Minimum Volume as required. A Clockwise Rotation will increase the Volume.

**Note: Adjustments should only be made during Minimal Ambient Street Noise.**



### DIPSWITCH - DSW1



- 1 ☒ ON TRAIN SOUND - 65dB MAX VOLUME
- 2 ☒ TRAIN SOUND - 70dB MAX VOLUME
- 3 ☒ TRAIN SOUND - 75dB MAX VOLUME
- 4 ☒ TRAIN SOUND - 80dB MAX VOLUME
- 5 ☒ AUTO-REPEAT
- 6 ☒ PLAY/REC MODE (OFF = PLAY)
- 7 ☒ RECORD ENABLE
- 8 ☒ Not Used

(Factory Settings Shown)

Label: LBL000476A1

### Specification:

Electrical Connections:	3 Wire 20 Gauge
Power Requirement:	10 to 30VDC @ 200 mA (Max)
Dimensions:	12.7cm x 9.5cm x 12.7cm L x W x H
Output:	90dB at One Meter (Max). With Proportional Control, Output will Self-adjust from Minimum. Volume Setting to 90db based on Street Noise Level
Colour:	Standard ASA 61 Grey, Customer Specified
Operating Temp:	Tested to: -37°C to 74°C (-35°F to 165°F)
Enclosure:	Weatherproof Deep Draw Housing, External Adjustments, No Dismantling Required
Loudspeaker:	Waterproof, UV Resistant, Vinyl Impregnated Cloth
Mounting:	Positive Lock Heavy Duty Swivel
Weight:	Approximately 0.3 Kg (0.7 Lbs)
Certification:	Intertek Testing Approved to CSA C22.2

