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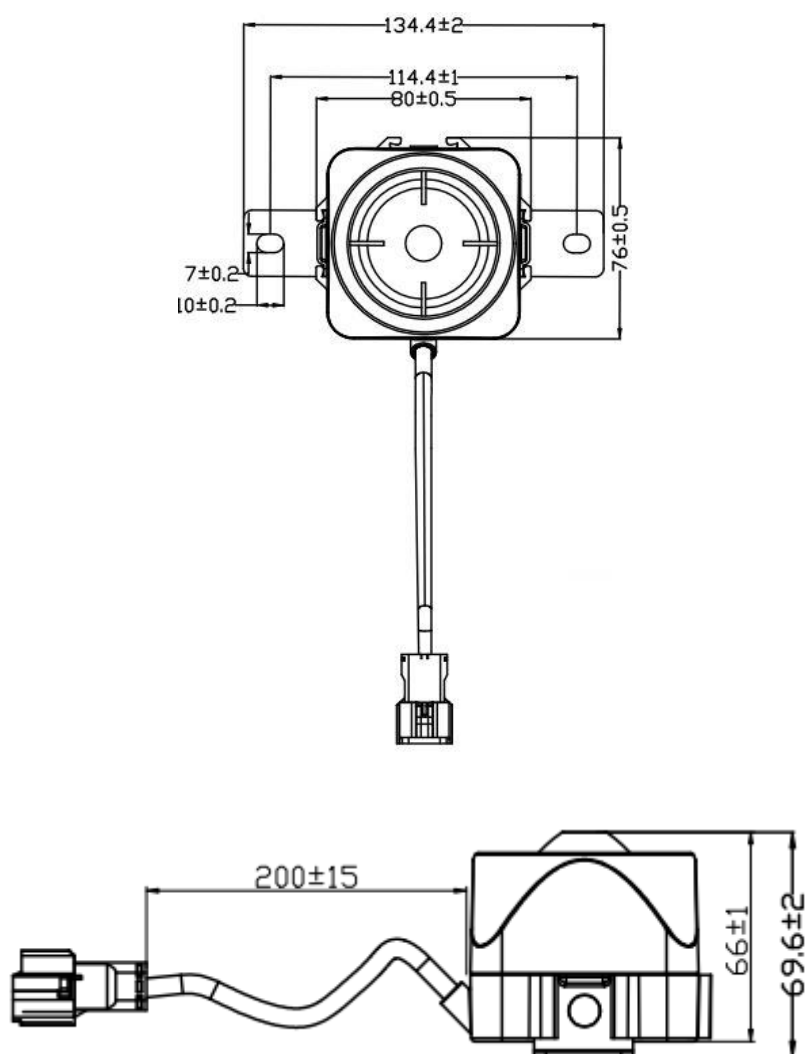
# **Acoustic Vehicle Alarm System Datasheet**

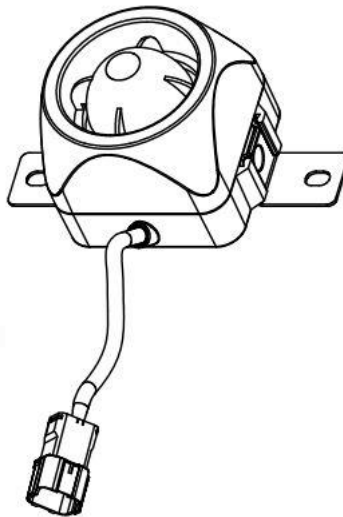
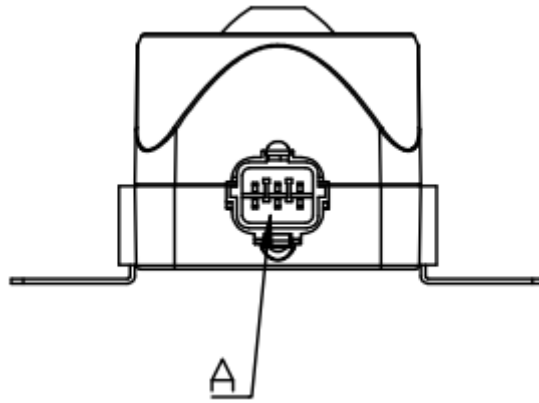
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# 1. Generic

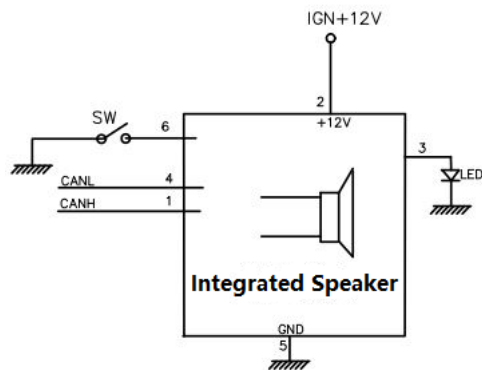
EV is completely driven by motors. HEV can also be completely driven by motors in some working conditions. However, the noise of motors in case of low vehicle speed is too low to draw attention of other people on the road, which brings new potential risks of transport security and may lead to accidents. In order to avoid this problem, Acoustic Vehicle Alert System (AVAS) is introduced to EV and HEV. The main function of AVAS is to send out an acoustic signal when vehicle speed is inferior to 20km/h to remind other people on the road the coming of vehicles. This doc is a datasheet of AVAS made by Shanghai TRION.

# 2. Dimension



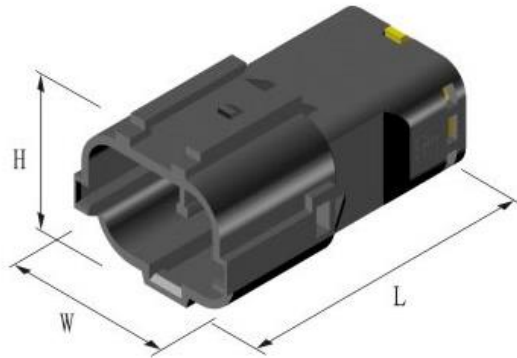


### 3. Principal Drawing

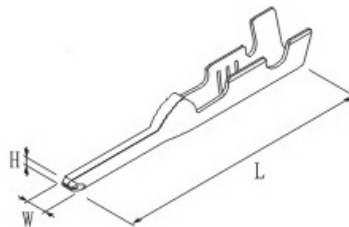


## 4. Connector Spec

Connector of device:

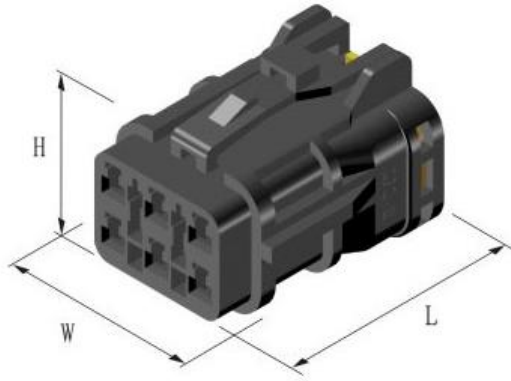


Pin Number	Model	Material	Color	Dimension	Wire Seal	Terminal
6	DJ7061-1.8-11	PA66	Black	W 25.6 H 23.5 L 42.2	MFD003-2	DJ611-1.8

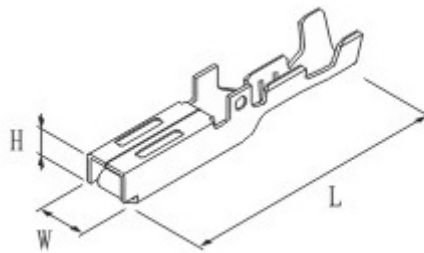


Pin Number	Model	Material	Thickness	Dimension	Diameter of Wire
N/A	DJ611-1.8	H65Y	0.3	W 1.8 H 0.6 L 24	0.5-0.75

Connector of Harness:

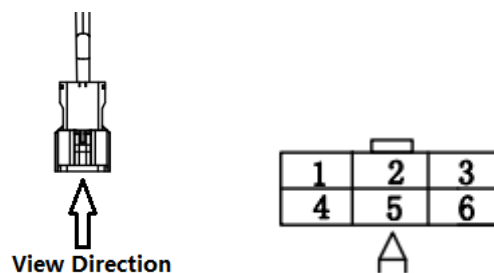


Pin Number	Model	Material	Color	Dimension	Wire Seal	Terminal
6	DJ7061-1.8-21	PA66	Black	W 23 H 19.2 L 29.1	MFD003-2	DJ621-1.8



Pin Number	Model	Material	Thickness	Dimension	Diameter of Wire
N/A	DJ621-1.8A	H65Y	0.3	W 2.8 H 2.5 L 18.5	0.35-0.75

## 5. Pin Definition



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Pin 1: CAN\_H

Pin 2: Power Supply (DC 12V or 24V)

Pin 3: Indicator LED

Pin 4: CAN\_L

Pin 5: GND

Pin 6: Pause Switch

## 6. Function Description

### 6.1. Generating noise when vehicles are in low speed

Controller should get gear status of vehicle and vehicle speed.

- Neutral: no noise
- Drive: no noise when vehicle speed is zero
- Drive: from 0 to 20km/h, generating traditional engine noise, volume goes up or down with vehicle speed
- Reverse: The warning sound is "Du Du"

### 6.2. Pause Switch

- Press pause switch to deactivate the system and indicator LED is ON
- Press pause switch to activate the system and indicator LED is OFF

Pause switch should be a spring-return switch.

## 7. CAN Spec

The product has one CAN in compliance with ISO 11898-2. The CAN baud rate is 500kbps by default. The CAN baud rate can also be customized as 250kbps.

The CAN protocol can be referred in another document which is provided to customers separately.

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## 8. Parameters

Rated Voltage: DC12V or DC24V

Working Voltage: DC 9V ~ 16V (12V Model) or 16V ~ 32V (24V Model)

Working Temperature: -30°C ~ 85°C

Storage Temperature: -40°C ~ 105°C

Working Current:  $\leq 0.8A/12V$

Volume: Max 75dB (12V/1m from front of vehicle)

Type of Sound: Simulation of traditional engine's noise

Protection Level: IP65
