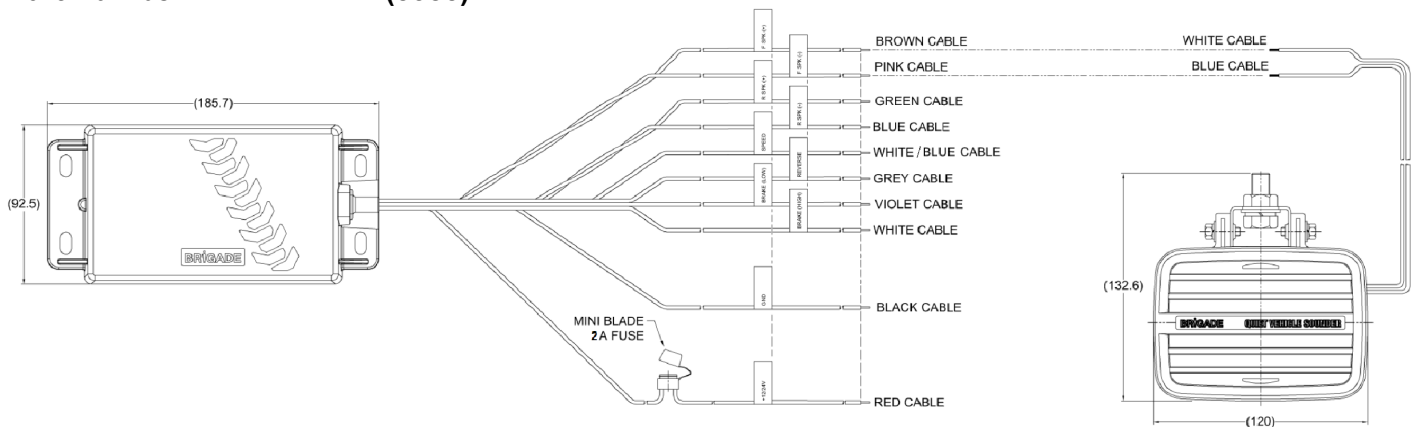


# Product Specification



Brigade Model Number: QVS-001-75  
Part Number: (5385)



Dimensions: mm

## Environmental Specifications:

- Vibration Rating: 7G Speaker
- ECU IP Rating: IP30
- Speaker IP Rating: IP68
- Operating Temperature: -30° to +70°C
- Storage Temperature: -40° to +85°C

## Approved Standards:

- CE - (EN 61000-6-2:2016) / (EN 61000-6-3:2006+AMD1:2010)
- FCC - (47 CFR Part 15 Subpart B)
- IC - (ICES-003:2016, Issue 6)
- E-Mark - (UNECE regulation R10 revision 5)
- E-Mark - (UNECE regulation R118)
- Elements of ISO 16750
- RoHS
- WEEE

## Technical Specifications:

- Operating Voltage: +12V D.C. / +24V D.C.
- Current Consumption: ≤100mA @ +12V D.C.
- Power Consumption: ≤1.5W
- System power on time: 2.2 seconds
- Maximum SPL: 76±1dBA @ 2m
- Speaker Impedance: 8Ω
- Rated Frequency Range: 250Hz to 8kHz
- Audible Output: BBS mixed with pitch-shifted tonal sounds
- No. of Triggers: 4, (Speed, Reverse, Park High Park Low)

## Technical Specifications Continued...

- Cable Thicknesses: 20 AWG
- Cable Lengths:
  - ECU cables: 300mm
  - Speaker cables: 1m
- Weights:
  - ECU unit: 200 grams
  - Speaker unit: 590 grams
- Overall Dimensions: (exc. cables)
  - ECU unit: 185.7mm (W) x 92.5mm (D) x 26mm (H)
  - Speaker unit: 120mm (W) x 119mm (D) x 132.6mm (H)
- Casing Material: ABS Plastic
- Casing Colour: Matt Black
- Mounting Location:
  - ECU Unit: Interior
  - Speaker Unit: Exterior (top hung by bracket)
- Fuse Specifications: 2A - Mini blade

## Features:

- Acoustic Vehicle Alerting System (AVAS), enabling quiet road transport vehicles to comply with UNECE R138 and 47 CFR Part 571 and 585.
- Pitch and volume increase with vehicle speed to mimic an internal combustion engine.
- Operational below speeds of 20MPH.
- BBS (white sound) mixed with pitch-shifted tonal sounds, for greater pedestrian awareness of vehicle.
- Supports vehicles requiring front QVS speaker outputs (optional rear speaker available).
- Vehicle speed obtained from tachograph B8 speed signal.

## Package Contents:

- 1x ECU
- 1x Speaker with Mounting Bracket
- 1x Installation Guide