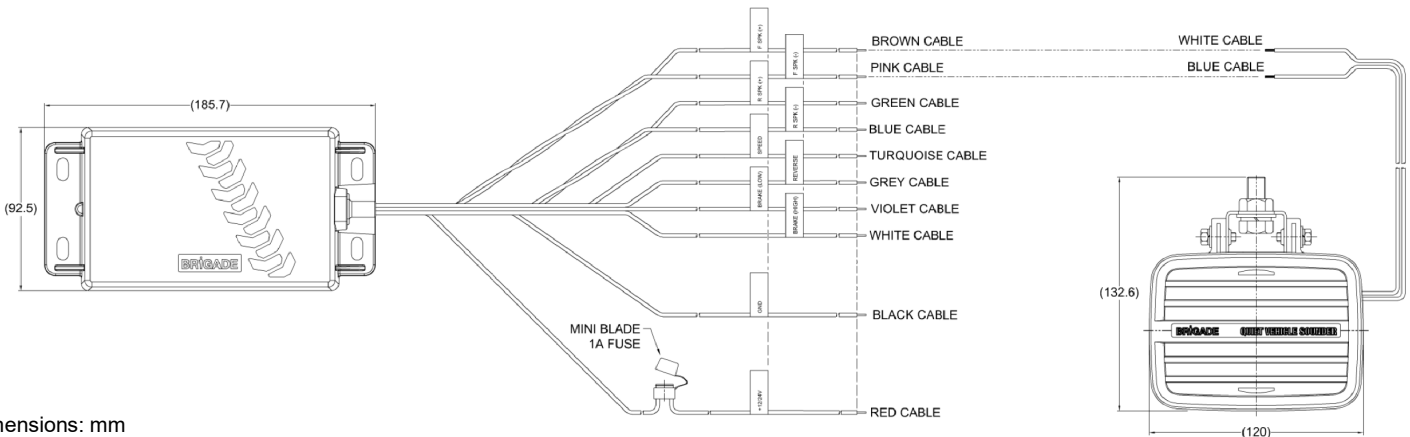


Product Specification



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 and IP69K
- 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: ≤1.28W
- 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: 1A - Mini blade

Features:

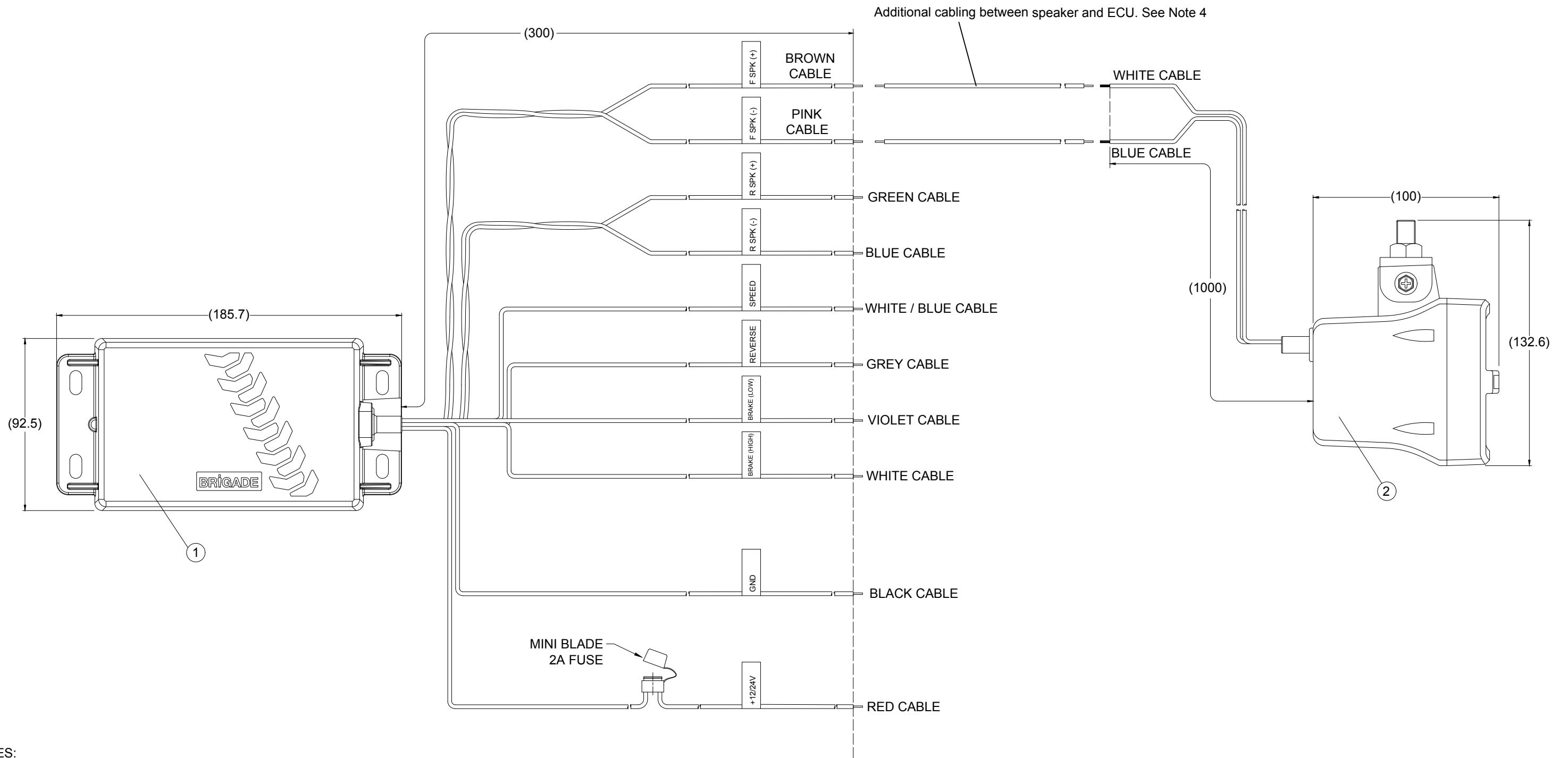
- An acoustic vehicle alerting system, allowing electric vehicles and other quiet road transport vehicles to comply with UNECE R138 regulation (or international equivalent), due to reduced audibility when travelling at speeds less than 20km/h.
- BBS (white sound) mixed with pitch-shifted tonal sounds, for greater pedestrian awareness of vehicle.
- Supports vehicles requiring front QVS speaker outputs (optional rear speaker available).
- ECU storage for up to 3 user configurable sound profiles.
- Sound output silenced when park brake is applied.
- Vehicle speed obtained from tachograph B8 speed signal.

Package Contents:

- 1x ECU
- 1x Speaker
- 1x Installation Guide

ITEM	PART NO.	VARIANT	QTY	DESCRIPTION
①	(5387)	N/A	1	QUIET VEHICLE SOUNDER ECU, BBS & TONAL. 2 SPEAKER CONNECTION, 12 - 24V
②	(5389)	WGB	1	QVS SPEAKER ASSEMBLY 77MM
③	(5652)	N/A	1	QVS INSTALLATION GUIDE (NOT SHOWN)

Revision Notes.				
R1 -				
APA: -	Drawn:-	Checked:-	Approved:-	Date: -



NOTES:

- FOR COMPONENT DETAIL, REFER TO INDIVIDUAL COMPONENT DRAWINGS.
- PLEASE REFER TO INSTALLATION GUIDE FOR CORRECT SETUP, CONFIGURATION AND INSTALLATION.
- ANY CUSTOMER MODIFICATION OF THIS PRODUCT CAUSING SUBSEQUENT FAILURE IS NOT A LIABILITY OF BRIGADE ELECTRONICS GROUP PLC.
- ADDITIONAL CABLING MAY BE REQUIRED BETWEEN SPEAKER AND ECU. THIS MUST BE SUPPLIED BY INSTALLER. MINIMUM 20AWG INSULATED WIRE MUST BE USED.
- FOR LABEL AND PACKAGING DETAIL REFER TO THE LATEST VERSION OF THE MASTER BOM.

PROPRIETARY NOTICE

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BRIGADE®

Assembly Pl Approval N.BUTTERFIELD	Approved by BARRY CHILDS	Checked by L.PILLAY	Drawn by J.STEWART
Angle of Projection	Units mm	Scale N/A	Released 18/03/19
Third Angle	Status RELEASED	QVS-001-75	
	Part No 5385	BE-003976-00-19	