



THE UNITED KINGDOM VEHICLE APPROVAL AUTHORITY

COMMUNICATION CONCERNING THE APPROVAL GRANTED ⁽⁴⁾/ APPROVAL EXTENDED ⁽¹⁾/
APPROVAL REFUSED ⁽⁴⁾/ APPROVAL WITHDRAWN ⁽⁴⁾/ PRODUCTION DEFINITELY
DISCONTINUED ⁽⁴⁾ OF A TYPE OF ELECTRICAL/ ELECTRONIC SUB-ASSEMBLY ⁽¹⁾ WITH
REGARD TO REGULATION NO. 10.04



Approval No: E11 10R-045257

Extension No: 02

1. Make (trade name of manufacturer): Brigade Electronics PLC
2. Type and general commercial description(s): Sidescan Control Module
3. Means of identification of type, if marked on the vehicle/component/ separate technical unit: ⁽¹⁾
TS-001, TS-001(XXX), TS-001-ECU, TS-001-ECU(XXX)

(Where "X" can represent any character for any associated variant. Bespoke models can have reduced electronic component population and cabling, software changes, customized settings or differing equipment connections)

- 3.1. Location of that marking: Back of the product housing by an adhesive label
4. Category of vehicle: Not applicable
5. Name and address of manufacturer:

Brigade Electronics Group PLC
The Mills
Station Road
South Darenth
Kent
DA4 9BD
United Kingdom

6. In the case of components and separate technical units, location and method of affixing of the approval mark: On the adhesive label applied on the back of the product.

7. Address(es) of assembly plant(s):

Unit 107-109
The Burrows, East Goscote
Leicester LE7 3XD
United Kingdom

8. Additional information (where applicable): See appendix

9. Technical Service responsible for carrying out the tests: SGS United Kingdom Limited

10. Date of test report: Letter 3rd March 2023 (16th April 2014)

11. No. of test report: AUT313161/1 (AUT188534/1)

12. Remarks (if any):

See Appendix

13. Place: BRISTOL

14. Date: 10 MARCH 2023

15. Signature:



C MCCABE
Chief Technical and Statutory Operations Officer

16. The index to the information package lodged with the Approval Authority, which may be obtained on request, is attached.

17. Reasons for extension: Simplify and reduce the technical content of the technical pack

(1) Strike out what does not apply.

Appendix

to type-approval communication form No. E11 10R-04527 Extension 02

concerning the type-approval of an electrical/electronic sub-assembly under Regulation No. 10.04

1. Additional information:
 - 1.1. Electrical system rated voltage: V. pos/neg ground ⁽¹⁾ 12V – 24V DC, negative ground
 - 1.2. This ESA can be used on any vehicle type with the following restrictions:
12V and 24V neg. ground
 - 1.2.1. Installation conditions, if any: See manufacturer's documentation
 - 1.3. This ESA can be used only on the following vehicle types: Not applicable
 - 1.3.1. Installation conditions, if any: Not applicable
 - 1.4. The specific test method(s) used and the frequency ranges covered to determine immunity were: (Please specify precise method used from Annex 9): 20 to 2000MHz (Free field at 30V/m).
 - 1.5. Laboratory accredited to ISO 17025 and recognized by the Approval Authority responsible for carrying out the tests: SGS United Kingdom Limited, Durham, United Kingdom.
 2. Remarks:
- (1) Strike out what does not apply.

ECE Reg 10.04 information regarding
approval for E-marking of Component/STU.

General Details:

- Section 1 Make. (trade name of manufacturer)
Brigade Electronics Group PLC
- Section 2 Type: General Commercial Description.
Sidescan Control Module
- Section 3 Means of identification of type, if marked on the Component/STU.
TS-001, TS-001(XXX), TS-001-ECU, TS-001-ECU(XXX)
- (Where "X" can represent any character for any associated variant.
Bespoke models can have reduced electronic component
population and cabling, software changes, customized settings or
differing equipment connections)*
- Section 3.1 State where the identification / model number is situated on the product,
and how it is marked.
Back of the product housing by an adhesive label
- Section 4 Name and address of Manufacturer
Brigade Electronics Group PLC
The Mills
Station Road
South Darenth
Kent
DA4 9BD
United Kingdom
- Section 4.1 Name and address of Manufacturer's representative inside the
European Union
As stated in Section 4
- Section 5 State how and where the type approval E mark will be affixed
On the adhesive label applied on the back of the product.
- Section 6 Address(es) of assembly plant(s)
Unit 107-109
The Burrows, East Goscote
Leicester LE7 3XD
United Kingdom
- Section 7 This product shall be approved as a
Component Component
- Section 8 Restrictions of use and conditions for fitting.
N/A
- Section 9 Electrical system rated voltage Positive/negative Ground.
12V – 24V DC, negative ground



Only applicable for charging systems: _____ (REESS)
N/A

Section 10 _____ Charger: on board/external².
N/A

Section 11 _____ Charging current: direct current/alternating current (number of phases/frequency²).
N/A

Section 12 _____ Maximal nominal current (in each mode if necessary). N/A

Section 13 _____ Nominal charging voltage.
N/A

Section 14 _____ Basic ESA interface functions: ex. L1/L2/L3/N/PE/control pilot. N/A

Section 15 _____ Minimum R_{sce} value (see paragraph 7.11. of this Regulation). N/A