



THE UNITED KINGDOM VEHICLE APPROVAL AUTHORITY

COMMUNICATION CONCERNING APPROVAL GRANTED ⁽¹⁾ / APPROVAL EXTENDED ⁽¹⁾ /
~~APPROVAL REFUSED ⁽⁴⁾ / APPROVAL WITHDRAWN ⁽⁴⁾ / PRODUCTION DEFINITELY
DISCONTINUED ⁽¹⁾~~ OF A TYPE OF ELECTRICAL / ELECTRONIC SUB-ASSEMBLY ⁽¹⁾ WITH
REGARD TO REGULATION NO. 10.06



Approval No: E11*10R06/02*12112*02

1. Make (trade name of manufacturer): Brigade Electronics Group PLC
2. Type and general commercial description(s): Backsense ® LED Display
3. Means of identification of type, if marked on the ~~vehicle~~ / component / ~~separate technical unit~~ ⁽¹⁾:
BS-7100D, BS-7100D-D, BS-7100, BS-71XXXXXXXXXX, BS-8200D, BS-8200D-D, BS-8200,
BS-82XXXXXXXXXX. (Where "X" can represent any character for any associated variant.
Bespoke models can have reduced electronic component population and cabling, software
changes, customised settings or differing equipment connections. Brigade confirms that the
sample submitted for test is the worst-case. The EMC performance of any associated variant
will be equivalent or superior to this worst-case sample).
- 3.1. Location of that marking: Adhesive Label applied to the bottom face of the product housing.
4. Category of vehicle: Not applicable
5. Name and address of manufacturer:

Brigade Electronics Group PLC
Brigade House
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: Adhesive Label applied to the bottom face of the product housing.

7. Address(es) of assembly plant(s):
No. 78, Gongye 3rd Road Technology Industrial Park
Tainan City
70955
Taiwan
People's Republic of China
8. Additional information (where applicable): See appendix below
9. Technical Service responsible for carrying out the tests: TÜV SÜD
10. Date of test report: As before (18 November 2024)
11. No. of test report: As before (75958882-01 Issue 02)
12. Remarks (if any): See appendix below
13. Place: BRISTOL
14. Date: 17 March 2026
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: The LED on the display board has been changed from the Edison Opto ET-5050X-3E1W to the E.S.E TEIC ES5050T6/29H/28/80/3/60/ACGB. This change is a direct drop-in replacement due to the end-of-life (EOL) status of the Edison LED. No other design aspects have been altered as part of this change. There are no PCB modifications and no EMC-relevant changes, and the LED driving conditions remain unchanged.

Appendix

to type-approval communication form No. E11*10R06/02*12112*02
concerning the type-approval of an electrical / electronic sub-assembly under Regulation No. 10.06

1. Additional information:
 - 1.1. Electrical system rated voltage: 12-24V. ~~pos-~~ neg ground ⁽¹⁾
 - 1.2. This ESA can be used on any vehicle type with the following restrictions: Not applicable.
 - 1.2.1. Installation conditions, if any: Please see Manufacturer's Installation Instructions.
 - 1.3. This ESA can be used only on the following vehicle types: Not applicable.
 - 1.3.1. Installation conditions, if any: Please see Manufacturer's Installation Instructions.
 - 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):

Not applicable. The LED is not listed as a key component and the circuitry will remain the same so no repeat testing has been completed.
 - 1.5. Laboratory accredited to ISO 17025 and recognized by the Approval Authority responsible for carrying out the tests: TÜV SÜD Ltd, Snitterfield Road, Bearley, Warwickshire, CV37 0EX.
 2. Remarks: None.
- (1) Strike out what does not apply.