TRANSPORT STYRELSEN

Swedish Transport Agency

Beteckning/Reference

TSV 2016-4392

E5

Communication concerning approval granted of a type of electrical/electronic sub-assembly with regard to Regulation No 10

Approval No:		05288
1.	Make: (trade name of manufacturer)	Standby AB
2.	Type and general commercial description:	L51 12LED 2color 451 5 701X (Blue), 451 6 701X (Red), 451 7 701X (White),451 8 701X (Amber), 451 9 701X (Green) L51 4LED 451 5 702X (Blue), 451 6 702X (Red), 451 7 702X (White),451 8 702X (Amber), 451 9 702X (Green) L51 2x2LED 451 5 703X (Blue), 451 6 703X (Red), 451 7 703X (White),451 8 703X (Amber), 451 9 703X (Green) L51 12LED 451 5 704X (Blue), 451 6 704X (Red), 451 7 704X (White),451 8 704X (Amber), 451 9 704X (Green)
3.	Means of identification of type, if marked on the component:	Standby type identification
3.1.	Location of that marking:	L51 12LED 2color X451 X 701X L51 4LED X451 X 702X L51 2x2LED X451 X 703X L51 12LED X451 X 704X
4.	Category of vehicle:	N/A
5.	Name and address of manufacturer:	Standby AB Nohabgatan 12C SE-461 53 TROLLHÄTTAN
6.	Location and method of affixing the ECE approval mark:	See item 3
7.	Address(es) of assembly plant(s):	Standby AB Nohabgatan 12C SE-461 53 TROLLHÄTTAN
8.	Additional information:	See appendix
9.	Technical service responsible for carrying out the tests:	SP Technical Research Institute of Sweden Box 857 SE-501 15 BORÅS

10.	Date of test reports:	2016-06-22, 2016-08-09, 2016-06-22 and 2016-06-15
11.	Number of test reports:	6P04693A, 6P04693B, 6P04693C, and 6P04693D
12.	Remarks (if any):	See appendix
13.	Place:	Borlänge
14.	Date:	2016-10-26

15. Signature: Swedish Transport Agency

Lars Rask

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

- Information document TD451X7XXX, dated 2016-09-08, pages 2.
- Test reports see item 10 and 11

Appendix to type approval communication form No: 05288
Concerning the type approval of an electrical/electronic
sub-assembly under Regulation No. 10

1. Additional information

L51 12LED 2color: Circuit diagram, S45120010B, Layout, E45120010B
Assembly drawing, B451X701XA
Bill of material, K451X0010A, K451X701XA
Marking drawing, X451X701XA

L51 4LED: Circuit diagram, S4512004A, Layout, E45120004v100a
Assembly drawing, B451X702XA
Bill of material, K451X0004A, K451X702XA
Marking drawing, X451X702XA

L51 2x2LED: Circuit diagram, S4512006A, Layout, E45120006v101
Assembly drawing, B451X703XA
Bill of material, K451X0006A, K451X703XA
Marking drawing, X451X703XA

L51 12LED: Circuit diagram, S4512002A, Layout, E45120002A
Assembly drawing, B451X704XA
Bill of material, K451X0002A, K451X704XA
Marking drawing, X451X704XA

See SP Report number:

L51 12LED 2color,	6P04693D
L51 4LED V2,	6P04693C
L51 2x2LED,	6P04693A
L51 12LED,	6P04693B

1.1.	Electrical system rated voltage:	+10 – 30 VDC, negative ground
1.2.	This ESA can be used in any vehicle type with the following restrictions:	N/A
1.2.1.	Installation conditions:	N/A
1.3.	This ESA unit can be used only in the following vehicle types:	N/A
1.3.1.	Installation conditions:	N/A
1.4.	The specific test method(s) used and the frequency ranges covered to determine immunity were:	ISO 11 452-4, 20-200 MHz ISO 11 452-2, 200-800 MHz ISO 11 452-2, 800-2000 MHz
1.5.	Approved laboratory responsible for carrying out the test:	SP Technical Research Institute of Sweden Box 857 SE-501 15 BORÅS

2. Remarks: