



RDW

Vehicle Technology Division

THE NETHERLANDS
(N E D E R L A N D)



COMMUNICATION

Concerning ⁽¹⁾:

- approval granted
- ~~approval extended~~
- ~~approval refused~~
- ~~approval withdrawn~~
- ~~production definitely discontinued~~

of a type of device pursuant to Regulation number 6.

Approval number: E4-6R-0116003

Extension number:00

Approval mark:

IB 2a R1-S1
02 01 02 (E4) 16003


1. Trade name or mark of the device : —
2. Manufacturer's name for the type of device : GS-LTL1010
3. Manufacturer's name and address : —
4. If applicable, name and address of the manufacturer's representative : —
5. Submitted for approval on : August 22, 2011
6. Technical service responsible for conducting approval tests : TÜV Rheinland Kraftfahrt GmbH
Technologiezentrum Verkehrssicherheit
Am Grauen Stein,
D-51105 Köln (Poll)
7. Date of test report issued by that service : October 27, 2011
8. Number of test report issued by that service : 87-R6-589/11



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Vehicle Approval and Information

9. Concise description
- | | |
|--|---|
| Category | : 1, 1a, 1b, 2a, 2b, 5, 6 ⁽²⁾ |
| Number, category | : Non-replaceable light sources, 5 LEDs |
| Voltage and wattage | : 12V, 1.2W |
| Light source module specific identification code | : not applicable |
| Only for installation on M1 and/or N1 category vehicles | : yes/no ⁽¹⁾ |
| Only for limited mounting height of equal to or less than 750 mm above the ground | : yes/no ⁽¹⁾ |
| Geometrical conditions of installation and relating variations, if any | : not applicable |
| Application of an electronic light source control gear/variable intensity control | : not applicable |
| (a) being part of the lamp | : yes/no ⁽¹⁾ |
| (b) being not part of the lamp | : yes/no ⁽¹⁾ |
| Input voltage(s) supplied by an electronic light source control gear/variable intensity control | : not applicable |
| Electronic light source control gear/variable intensity control manufacturer and identification number (when the light source control gear is part of the lamp but is not included into the lamp body) | : not applicable |
| Variable luminous intensity | : yes/no ⁽¹⁾ |
10. Position of the approval mark : on the lens
11. Reason(s) for extension (if applicable) : ---
12. Approval : granted ~~/extended/refused/withdrawn~~⁽¹⁾
13. Place : Zoetermeer
14. Date : 03-NOV-2011
15. Signature : 
16. The list of documents deposited with the Administrative Service which has granted approval is annexed to this communication and may be obtained on request.
-Information document
-Test report

⁽¹⁾ Strike out what does not apply.

⁽²⁾ For direction indicator lamps of categories 1, 1a, 1b, 2a and 2b, information regarding the signal according to paragraph 6.4.2.

Re Application date : August 22, 2011

1. Specification data

Type		GS-LTL1010			
Function		Rear retro-reflector	Rear direction indicator	Rear position lamp	Stop lamp
Emitted color		Red	Amber	Red	Red
Rated	Voltage	---	12V		
	Wattage	---	1.2W	0.3W	1.2W
Applicable Regulation (ECE)		R3.02 Class IB	R6.01 Category 2a	R7.02 Category R1-S1	
Number and category of filament lamp(light source)		---	5LEDs, Non-replaceable light source	5LEDs, Non-replaceable light source	
Location of marking	Rated Voltage and Wattage	Marked on Housing			
	Trade mark			Marked on Lens	
	Approval mark	Marked on Lens			
Special supply voltage		Not applicable			
Application of additional supply system		Yes / No			
Light source module		Yes /No			

2. Construction and material

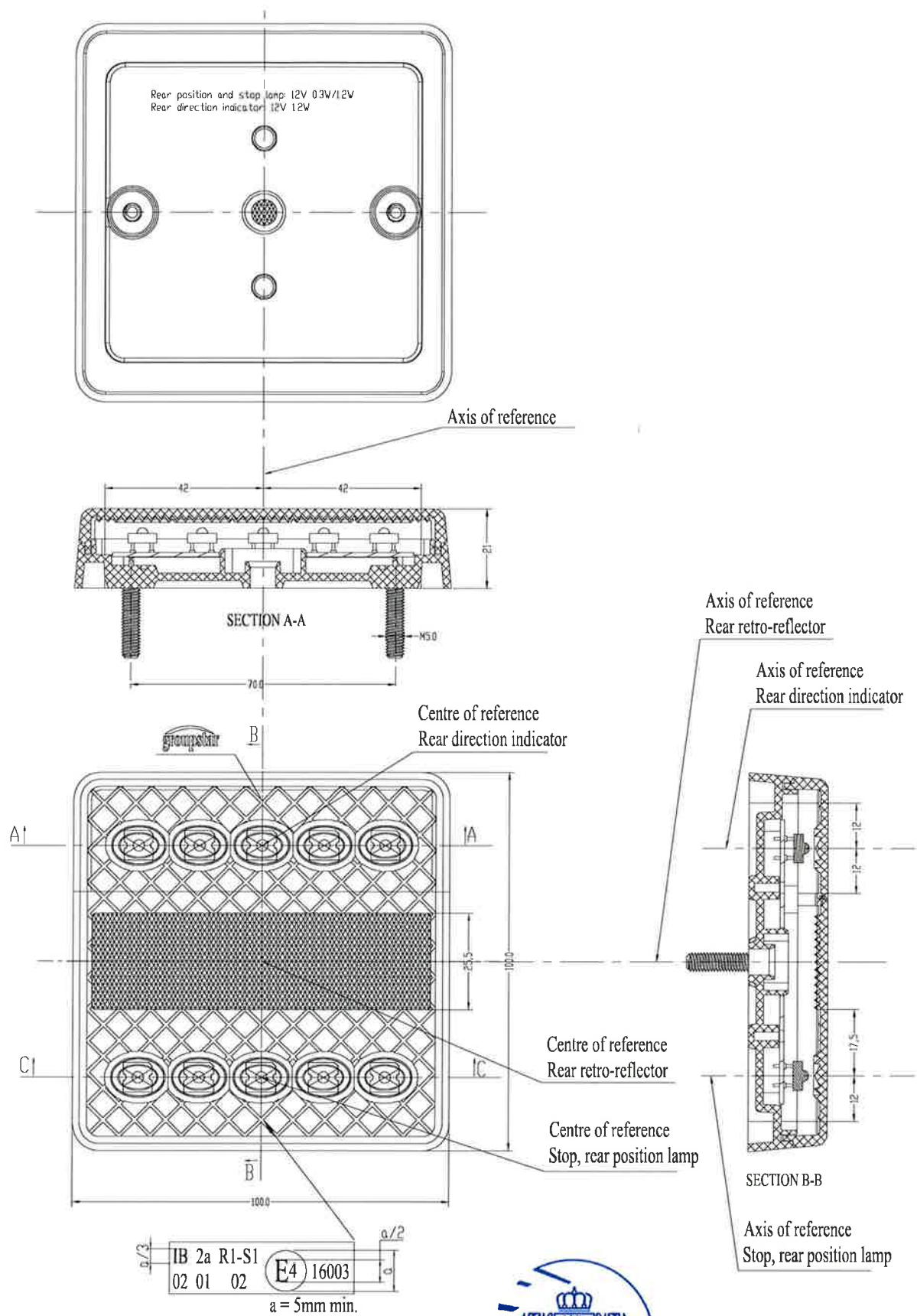
Construction	Material	Remarks
Outer lens	PC	Rear direction indicator: Amber Rear retro-reflector: Red Stop and rear position lamp: Red
Housing	ABS	-
Electrical wiring	Copper covered with insulation	-

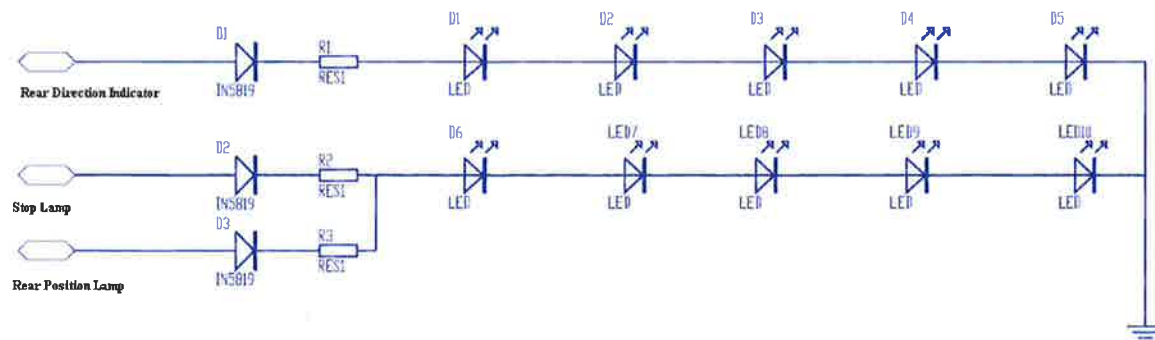
3. Name and address of manufacturer

4. Name and address of representative of manufacturer : Not applicable

This information document consists of 3 pages.







Rear direction indicator; 5LEDs, 12V 1.2W, Non-replaceable light source

Rear position and stop lamp; 5LEDs, 12V 0.3/1.2W, Non-replaceable light source



Manufacturer
Type

⋮
⋮
⋮

TEST REPORT

according to ECE-Regulation

**Uniform provisions concerning the approval of direction indicators
For power-driven vehicles and their trailers**

ECE-R6

including all amendments until

**series of Amendments: 01
Supplement 20**

Previously granted
ECE - certificate

Structure of report:

0. general information
1. Test object(s) and general test information
2. Test minutes
3. Remarks concerning tested object(s)
4. Appendices
5. Statement of conformity

Manufacturer
Type:
:
:**0. General information**

- 0.1. Trademark or trade name of the lamp :
0.2. Manufacturer's name for the type of the lamp : GS-LTL1010
0.3. Name and address of the manufacturer :
0.4. Name and address of manufacturer's authorized representative : not applicable
0.5. No. of information folder : GS-LTL1010-00
date of issue : August 22, 2011
date of last amendment : ---

1. Test object(s) and general test information

- 1.1. Test object(s)
identification number : ---
version : ---
Remark : Non-replaceable light sources, 5 LEDs
1.2. General test information
1.2.1. Order issued by (if different from manufacturer) : ---
1.2.2. Test object / test vehicle received on : not applicable
1.2.3. Test date : October 26, 2011
1.2.4. Test site : Quality Inspection And Testing Centre For Vehicle
Lamps And Lanterns Products
Jiangsu, China
1.2.5. Remark : The results of the test refer exclusively to the object(s)
mentioned under point 1.1 of this report.

Manufacturer :
Type :

2. Test minutes

- 2.1. Test facilities : The test facilities are in compliance with the requirements of the regulation.
- 2.2. Test results : ~~The type has been examined according to the amendments mentioned in appendix O.~~

An actual test of the type was not required. The results of the previous tests are still valid.
- Markings : The trade mark is marked clearly legible and indelible on the lens and on the housing of the lamp.

The rated voltage and rated wattage is clearly legible and indelible marked on the lens and on the housing of the lamp.

Space for the approval mark and for additional symbols is provided on the lens (the lens can not be separated from the housing).
- 2.3. General specifications : The lamps are designed and made that under normal use their satisfactory operation is ensured and they retain the required characteristics.

The colour of the light emitted is within the limits of the coordinates for Amber as prescribed in Annex 5 of the Regulation.
- 2.4. Photometric tests : The light intensity was measured after 1 minute burning period and after 30 minutes burning in reference axis. The distribution of the light intensity after 1 minute burning period was calculated using the ratio of the two described measurements. The light intensity and its distribution are in compliance with the requirement after 1 minute burning period and after 30 minutes burning period.

The light distribution angles and levels of intensity have been measured in accordance with Annex 4 of the Regulation, based on the manufacturer's indication of the centre of reference and axis of reference.

All light sources are connected in a series as one light source.

Manufacturer :
Type :

Results of photometric tests of the **Rear direction indicator lamp, category 2a**

measured after 1 minute burning period when all light sources lit

	light intensity of the lamps in reference axis [cd]	allowable maximum	required minimum
sample no. 1	117.9	500	50
sample no. 2	110.2	500	50

measured after 30 minutes burning period when all light sources lit

distribution of the intensity of the lamps in [cd]								
horizontal angle		L20°	L10°	L5°	V	R5°	R10°	R20°
vertical angle required minimum intensity	U10°	-	-	10	-	10	-	-
	U5°	5	10	-	35	-	10	5
	H	-	17.5	45	50	45	17.5	-
	D5°	5	10	-	35	-	10	5
	D10°	-	-	10	-	10	-	-
vertical angle sample no. 1	U10°	-	-	47.30	-	59.98	-	-
	U5°	7.03	42.23	-	93.83	-	85.96	24.13
	H	-	44.84	73.44	109.1	119.4	82.85	-
	D5°	6.11	44.92	-	81.85	-	84.18	28.90
	D10°	-	-	33.33	-	34.82	-	-
vertical angle sample no. 2	U10°	-	-	19.79	-	22.36	-	-
	U5°	5.22	41.80	-	57.11	-	61.06	11.79
	H	-	51.72	79.35	101.0	102.9	76.87	-
	D5°	10.17	59.23	-	114.3	-	85.30	24.63
	D10°	-	-	53.18	-	57.04	-	-

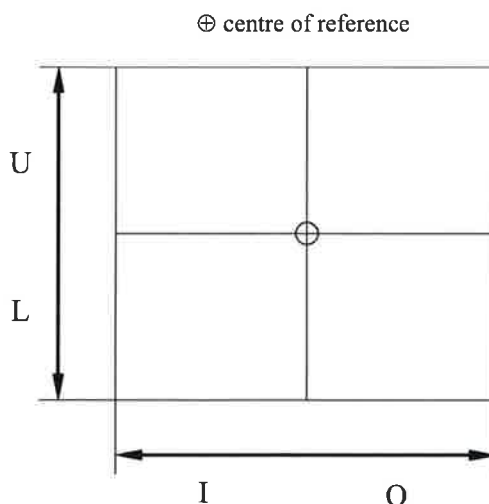
	sample no. 1	sample no. 2	allowable maximum	required minimum
maximum intensity [cd]	121.6	115.8	500	50
minimum intensity in the fields defined in Annex 1 of the Regulation [cd]	0.34	0.35	-	0.3

Manufacturer :
Type :

2.5. Illuminating surface

⚠ Vertical and horizontal outlines of the illuminating surface of the light-signalling device in relation to the centre of reference and in accordance with Annex 3 of the Regulation No. 48

Definition of the illuminating surface of the device



function	upper boundary (U) [mm]	lower boundary (L) [mm]	inner boundary (I) [mm]	outer boundary (O) [mm]
rear direction indicator lamp	11	11	40	40

2.6. Explanatory note

⚠ This report describes the examination of the rear direction indicator lamp as a part of a lamp device.

For the examination of the other lamp of the device, refer to the following report:

Type of lamp	Test Report No.
Rear retro-reflector	87-R3-588/11
Rear position and stop lamp	87-R7-590/11

Manufacturer
Type

:
:

3. Remark concerning tested object(s)

All versions of the lamps as stated in the information document are covered with the tested version(s) and test object(s) respectively.

4. Appendices

0 List of modifications

Information folder no. : GS-LTL1010-00

5. Statement of conformity

The information folder and the type described there comply with the requirements in the above mentioned regulation.

The test laboratory is accredited for the above mentioned tests by the RDW, Vehicle Technology and Information Centre, the Netherlands;

Accreditation Number: RDW-99050014-05.

The test report comprises the pages 1 to 7 and shall not be reproduced except in full without the written approval of the test laboratory.

Cologne, October 27, 2011
ND/HH



B.S.M.E. N. Deng



Manufacturer :
Type :

List of modifications

Appendix 0

Correction of	: ---
Modification of	: ---
Addition of	: ---
Deletion of	: ---