

July 7, 2014

RDW rijksdienst voor het wegverkeer
Certification and Supervision
Europaweg 205
2700 AT Zoetermeer
The Netherlands

Subject for ECE-type approval

Dear Sir:

We hereby apply for type approval according to:

Function	ECE approval number	EEC approval number
Front position lamp	E4-7R-028630	---

Trade name or trade mark :

Manufacturer's name for type of device :

Name and address of manufacturer :

We herewith declare that we have not applied and will not apply for approval with another Contracting Party of the ECE for the same type of product. Nor has any other member state granted a corresponding approval.

Sincerely

Signature:



Name: Mr. Xie Xinmiao / General Manager





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- ~~approval withdrawn~~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 7.

Approval number: E4-7R-028630

Extension number:00

Approval mark:

02 A



8630

1. Trade name or mark of the device :
2. Manufacturer's name for the type of device :
3. Manufacturer's name and address : ..
4. If applicable, name and address of the manufacturer's representative : ---
5. Submitted for approval on : July 7, 2014
6. Technical service responsible for conducting approval tests : TÜV Rheinland Kraftfahrt GmbH
Technologiezentrum Verkehrssicherheit
Am Grauen Stein
D-51105 Köln (Poll)
7. Date of report issued by that service : July 14, 2014
8. Number of report issued by that service : 87-R7-674/14-00



P.O. Box 777
2700 AT Zoetermeer
The Netherlands

Tel. + 31 (0)79 345 83 02
E-mail ttv@rdw.nl
www.rdw.nl

Vehicle Approval and Information

9. Concise description
- 9.1 By category of lamp : Front position lamp, category A
- For mounting either outside or inside or both : outside / ~~inside~~ / both ⁽¹⁾
- Colour of light emitted : ~~red~~ / white ⁽¹⁾
- Number and category(ies) of filament lamp(s) : 4 LEDs, non-replaceable light sources
- Voltage and wattage : 12V 0.3W
- Light source module specific identification code : not applicable
- 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⁾
- 9.2 Function(s) produced by an interdependent lamp forming part of an interdependent lamp system
- Front position lamp : yes/no ⁽¹⁾
- R1 Rear position lamp : yes/no ⁽¹⁾
- R2 Rear position lamp : yes/no ⁽¹⁾
- S1 Stop lamp : yes/no ⁽¹⁾
- S2 Stop lamp : yes/no ⁽¹⁾
- S3 Stop lamp : yes/no ⁽¹⁾
- S4 Stop lamp : yes/no ⁽¹⁾
- End-outline marker lamp : 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

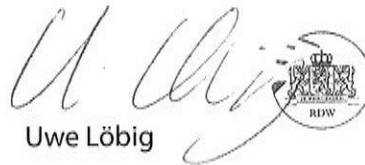


Approval number: E4-7R-028630

Extension number: 00

14. Date : 31-JUL-2014

15. Signature :


Uwe Löbig

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.

Application date : July 7, 2014

1. Specification data

Type			
Function	Front position lamp		
Emitted color	White		
Rated	Voltage	12V (Input range: 10V – 30V)	
	Wattage	0.3W	
Applicable Regulation (ECE)		R7.02 Category A	
Number and category of filament lamp(light source)		4LEDs, 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

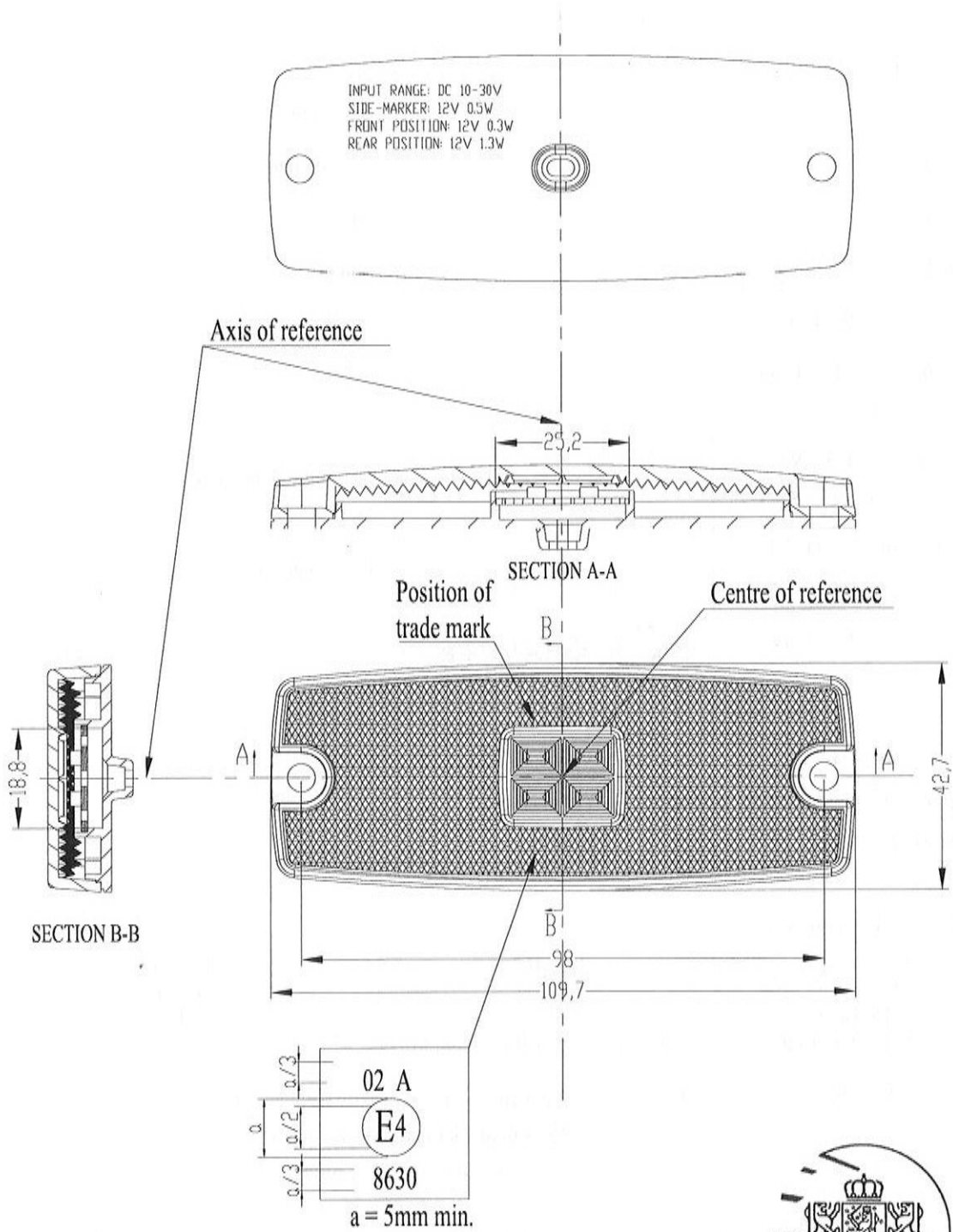
Construction	Material	Remarks
Outer lens	PC	Clear
Housing	ABS	White
Electrical wiring	Copper covered with insulation	---

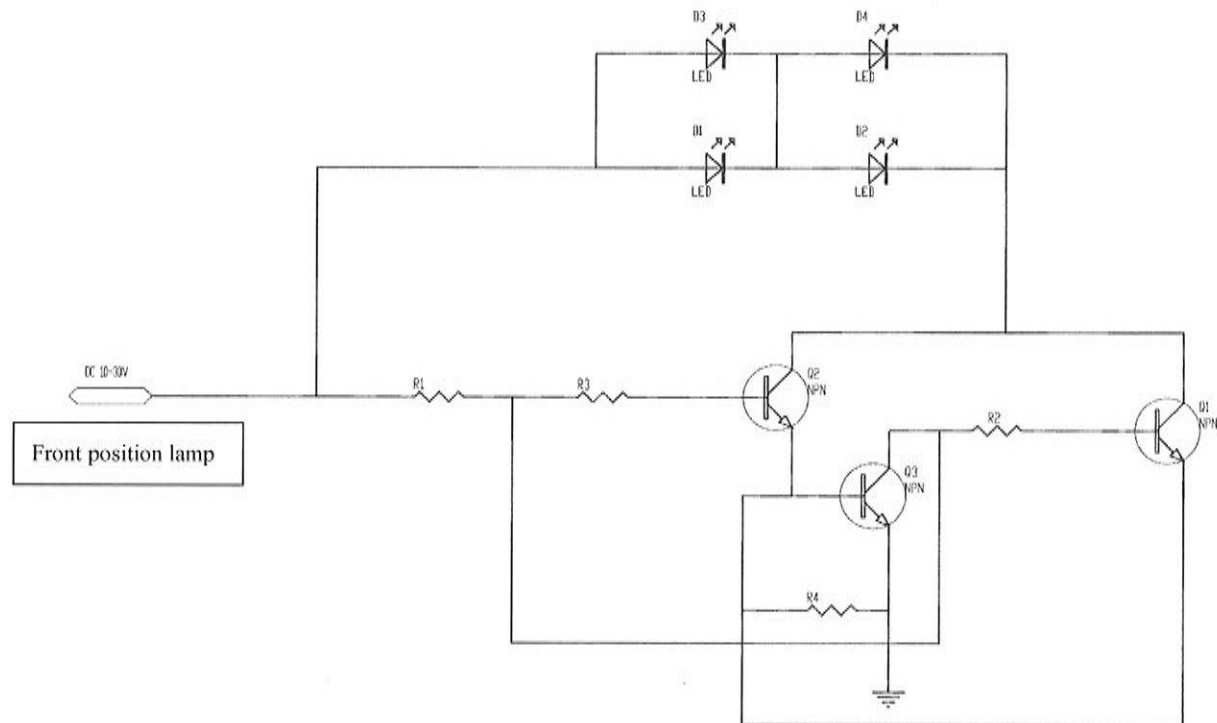
3. Name and address of manufacturer :

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

This information document consists of 3 pages.





CIRCUIT DIAGRAM

4LEDs, 12V 0.3W, Non-replaceable light source



Manufacturer :
Type :

TEST REPORT

according to ECE-Regulation

Uniform provisions concerning the approval of front and rear position (side) lamps, stop-lamps and end-outline marker lamps for power-driven vehicles and their trailers

ECE-R7

including all amendments until

**series of Amendments: 02
Supplement 22**

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 :
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 :
date of issue : July 7, 2014
date of last amendment : ---

1. Test object(s) and general test information

- 1.1. Test object(s)
identification number : ---
version : ---
Remark : Light source: Non-replaceable light sources, 4 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 : July 8, 2014
- 1.2.4. Test site : Automotive Component Testing Center of Ningbo
No. 99, Jingu South Road, Yinzhou Investment & Business Incubation, 315104, Ningbo, P.R. 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 0.~~

~~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 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 WHITE 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.

The front position lamp containing more than one light source, comply with the minimum intensity required when any one light source has failed.



Manufacturer :
Type :

Results of photometric tests of the **front position lamp, category A**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	5.390	140	4
sample no. 2	5.641	140	4

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°	-	-	0.8	-	0.8	-	-
	U5°	0.4	0.8	-	2.8	-	0.8	0.4
	H	-	1.4	3.6	4	3.6	1.4	-
	D5°	0.4	0.8	-	2.8	-	0.8	0.4
	D10°	-	-	0.8	-	0.8	-	-
vertical angle sample no. 1	U10°	-	-	5.171	-	5.188	-	-
	U5°	4.497	5.079	-	5.252	-	5.049	4.461
	H	-	5.121	5.241	5.251	5.201	5.094	-
	D5°	4.471	5.040	-	5.191	-	5.005	4.470
	D10°	-	-	4.979	-	4.972	-	-
vertical angle sample no. 2	U10°	-	-	5.154	-	5.209	-	-
	U5°	4.510	5.113	-	5.374	-	5.237	4.551
	H	-	5.260	5.422	5.474	5.463	5.383	-
	D5°	4.658	5.211	-	5.470	-	5.322	4.690
	D10°	-	-	5.240	-	5.333	-	-

	sample no. 1	sample no. 2	allowable maximum	required minimum
maximum intensity [cd]	5.287	5.491	140	4
minimum intensity in the fields defined in Annex 1 of the Regulation [cd]	0.224	0.236		0.05



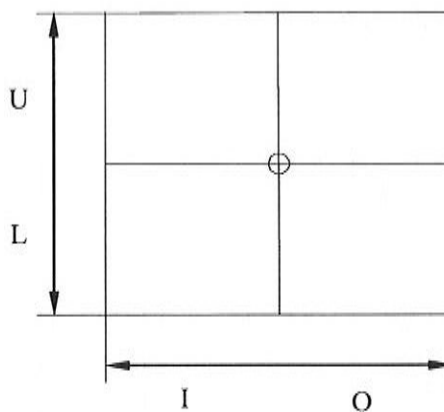
Manufacturer :
Type :

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

⊕ centre of reference



function	upper boundary (U) [mm]	lower boundary (L) [mm]	inner boundary (I) [mm]	outer boundary (O) [mm]
Front position	9	9	12	12

2.6. Explanatory note

: Not applicable



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

1 Information folder no.

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:

Designation Number: RDW-99050014-06

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.

Engineering Centre Shanghai, July 14, 2014
HH



Heng Huang
Expert Technical Service



Manufacturer :
Type :

List of modifications

Appendix 0

Correction of : ---

Modification of : ---

Addition of : ---

Deletion of : ---



July 7, 2014

RDW rijksdienst voor het wegverkeer
Certification and Supervision
Europaweg 205
2700 AT Zoetermeer
The Netherlands

Subject for ECE-type approval

Dear Sir:

We hereby apply for type approval according to:

Function	ECE approval number	EEC approval number
Rear position lamp	E4-7R-028629	---

Trade name or trade mark :

Manufacturer's name for type of device :

Name and address of manufacturer :

We herewith declare that we have not applied and will not apply for approval with another Contracting Party of the ECE for the same type of product. Nor has any other member state granted a corresponding approval.

Sincerely

Signature:



Name: Mr. Xie Xinmiao / General Manager





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 7.

Approval number: E4-7R-028629



Extension number:00

Approval mark:

02 R1



8629

1. Trade name or mark of the device : 
2. Manufacturer's name for the type of device :
3. Manufacturer's name and address : 
4. If applicable, name and address of the manufacturer's representative : ---
5. Submitted for approval on : July 7, 2014
6. Technical service responsible for conducting approval tests : TÜV Rheinland Kraftfahrt GmbH
Technologiezentrum Verkehrssicherheit
Am Grauen Stein
D-51105 Köln (Poll)
7. Date of report issued by that service : July 14, 2014
8. Number of report issued by that service : 87-R7-673/14-00



9. Concise description
- 9.1 By category of lamp : rear position lamp, category R1
- For mounting either outside or inside or both : outside / ~~inside~~ / both ⁽¹⁾
- Colour of light emitted : red / ~~white~~ ⁽¹⁾
- Number and category(ies) of filament lamp(s) : 4 LEDs, non-replaceable light sources
- Voltage and wattage : 12V 1.3W
- Light source module specific identification code : not applicable
- 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⁾
- 9.2 Function(s) produced by an interdependent lamp forming part of an interdependent lamp system
- Front position lamp : yes/no ⁽¹⁾
- R1 Rear position lamp : yes/no ⁽¹⁾
- R2 Rear position lamp : yes/no ⁽¹⁾
- S1 Stop lamp : yes/no ⁽¹⁾
- S2 Stop lamp : yes/no ⁽¹⁾
- S3 Stop lamp : yes/no ⁽¹⁾
- S4 Stop lamp : yes/no ⁽¹⁾
- End-outline marker lamp : 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



Approval number: E4-7R-028629

Extension number: 00

14. Date : 31-JUL-2014

15. Signature :


Uwe Löbig



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.

Application date : July 7, 2014

1. Specification data

Type			
Function	Rear position lamp		
Emitted color	Red		
Rated	Voltage	12V (Input range: 10V – 30V)	
	Wattage	1.3W	
Applicable Regulation (ECE)		R7.02 Category R1	
Number and category of filament lamp(light source)		4LEDs, 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

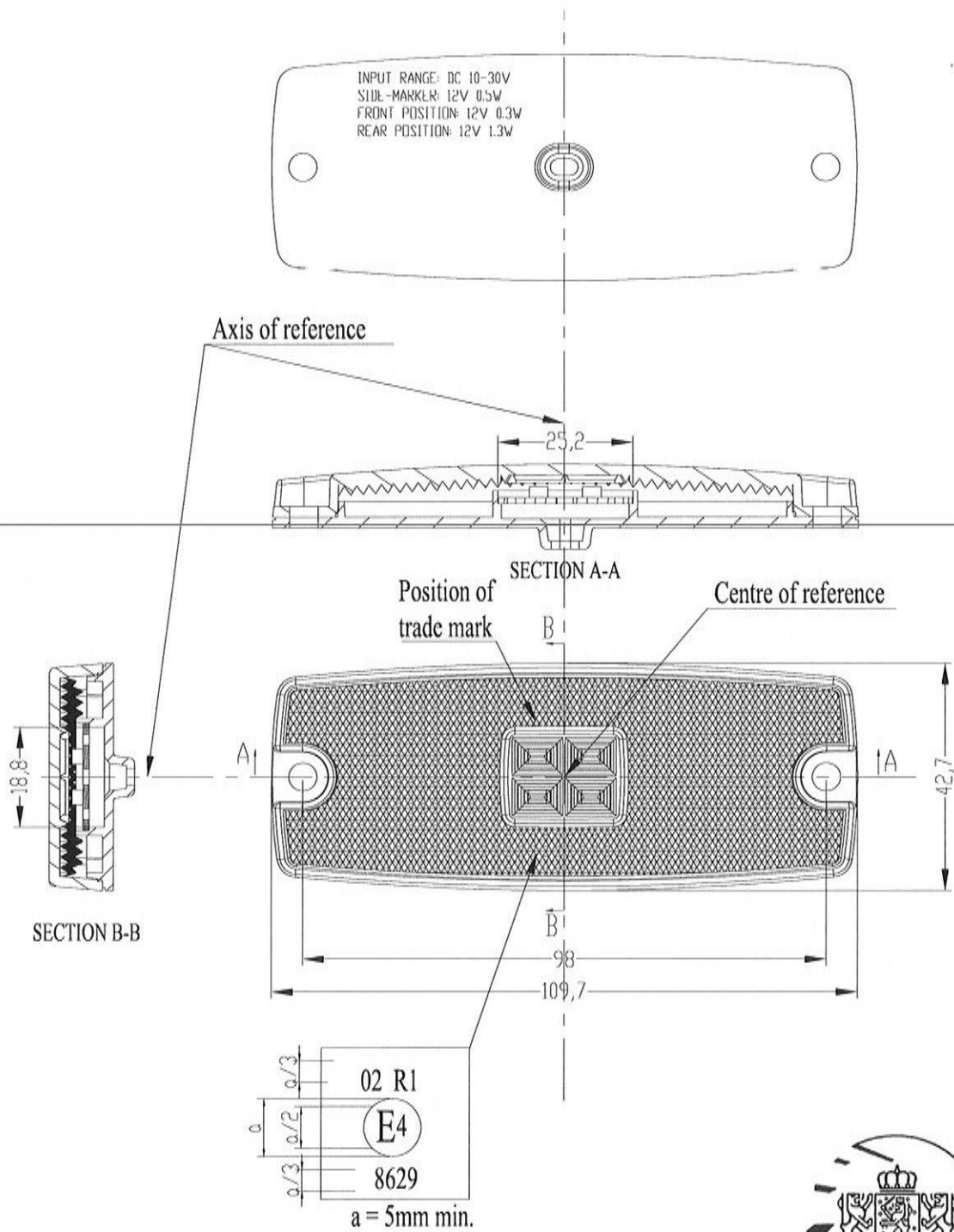
Construction	Material	Remarks
Outer lens	PC	Red color
Housing	ABS	White
Electrical wiring	Copper covered with insulation	---

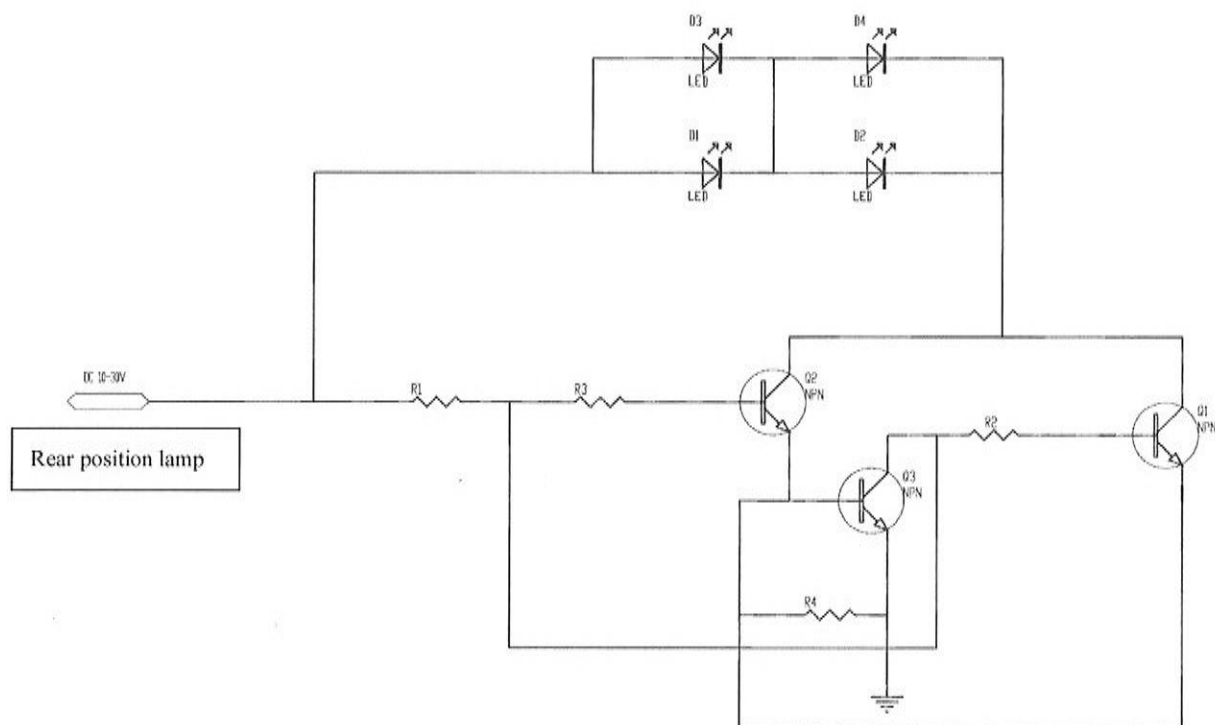
3. Name and address of manufacturer :

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

This information document consists of 3 pages.





CIRCUIT DIAGRAM

4LEDs, 12V 1.3W, Non-replaceable light source



Manufacturer :
Type :



TEST REPORT

according to ECE-Regulation

Uniform provisions concerning the approval of front and rear position (side) lamps, stop-lamps and end-outline marker lamps for power-driven vehicles and their trailers

ECE-R7

including all amendments until

**series of Amendments: 02
Supplement 22**

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 :
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 : LCL1101R-00
date of issue : July 7, 2014
date of last amendment : ---

1. Test object(s) and general test information

- 1.1. Test object(s)
identification number : ---
version : ---
Remark : Light source: Non-replaceable light sources, 4 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 : July 8, 2014
- 1.2.4. Test site : Automotive Component Testing Center of Ningbo
No. 99, Jingu South Road, Yinzhou Investment & Business Incubation, 315104, Ningbo, P.R. 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 0.~~

~~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 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 RED 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.

The rear position lamp containing more than one light source, comply with the minimum intensity required when any one light source has failed.



Manufacturer
Type

Results of photometric tests of the rear position lamp, category R1

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	5.932	17	4
sample no. 2	5.531	17	4

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	U10°	-	-	0.8	-	0.8	-	-
	required							
	U5°	0.4	0.8	-	2.8	-	0.8	0.4
	minimum							
	H	-	1.4	3.6	4	3.6	1.4	-
intensity	D5°	0.4	0.8	-	2.8	-	0.8	0.4
	D10°	-	-	0.8	-	0.8	-	-
vertical angle	U10°	-	-	3.671	-	3.726	-	-
	U5°	3.386	3.955	-	4.121	-	3.907	3.486
	H	-	4.279	4.359	5.260	4.329	4.211	-
	D5°	3.576	4.257	-	4.327	-	4.146	3.651
	D10°	-	-	4.076	-	3.949	-	-
vertical angle	U10°	-	-	4.231	-	4.335	-	-
	U5°	4.161	4.608	-	4.698	-	4.809	4.089
	H	-	4.157	4.138	5.211	4.212	4.138	-
	D5°	3.363	3.824	-	3.860	-	3.931	3.468
	D10°	-	-	3.878	-	3.951	-	-

	sample no. 1	sample no. 2	allowable maximum	required minimum
maximum intensity [cd]	5.590	5.773	17	4
minimum intensity in the fields defined in Annex 1 of the Regulation [cd]	0.153	0.133		0.05

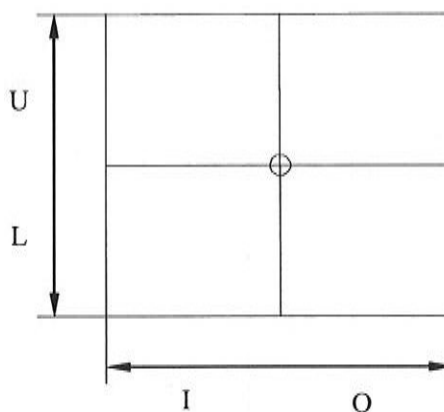


Manufacturer
Type

- 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

⊕ centre of reference



function	upper boundary (U) [mm]	lower boundary (L) [mm]	inner boundary (I) [mm]	outer boundary (O) [mm]
Rear position	9	9	12	12

- 2.6. Explanatory note : Not applicable



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
- 1 Information folder no.

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:

Designation Number: RDW-99050014-06

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.

Engineering Centre Shanghai, July 14, 2014
HH



Heng Huang
Expert Technical Service



Manufacturer
Type

List of modifications

Appendix 0

Correction of : ---

Modification of : ---

Addition of : ---

Deletion of : ---



July 14, 2011

RDW rijksdienst voor het wegverkeer
Certification and Supervision
Europaweg 205
2700 AT Zoetermeer
The Netherlands

Subject for ECE-type approval

Dear Sir:

We hereby apply for type approval according to:

Function	ECE approval number	EEC approval number
Side Marker Lamp	E4-91R-009186	---

Trade name or trade mark :

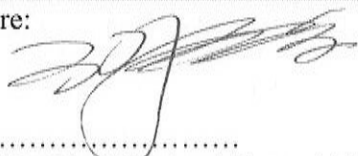
Manufacturer's name for type of device :

Name and address of manufacturer :

We herewith declare that we have not applied and will not apply for approval with another Contracting Party of the ECE for the same type of product. Nor has any other member state granted a corresponding approval.

Sincerely

Signature:



Name: Mr. Xie Xinmiao / General Manager





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 side-marker lamp marked SM1/SM2 ⁽¹⁾ pursuant to Regulation No. 91.

Approval number: E4-91R-009186

Extension number: 00

Approval mark:

00 SM1



9186

1. Trade name or mark of the side-marker lamp : -
2. Manufacturer's name for the type of side-marker lamp
3. Manufacturer's name and address
4. If applicable, name and address of the manufacturer's representative : ---
5. Submitted for approval on : July 14, 2011
6. Technical service responsible for conducting approval tests : TÜV Rheinland Kraftfahrt GmbH
Technologiezentrum Verkehrssicherheit
Am Grauen Stein
D-51105 Köln
7. Date of report issued by that service : August 04, 2011
8. Number of report issued by that service : 87-R91-383/11



P.O. Box 777
2700 AT Zoetermeer
The Netherlands

Tel. + 31 (0)79 345 81 43
Fax + 31 (0)79 345 80 43
www.rdw.nl

Vehicle Approval and Information

9. Concise description ⁽²⁾

Colour of light emitted : amber / ~~red~~ ⁽¹⁾
Number and category(ies) of filament lamp(s) : 4LEDs, 12V 0.5W, non-replaceable light source
Light source module : ~~yes~~ / no ⁽¹⁾
Light source module specific identification code : not applicable
Geometrical conditions of installation and relating variations, if any : not applicable

10. Position of the approval mark : on the lens

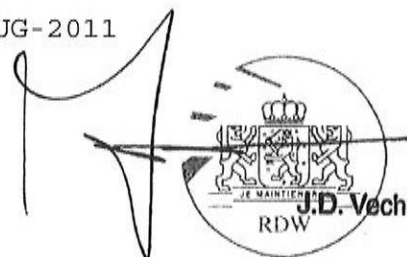
11. Reason(s) for extension (if applicable) : ---

12. Approval : granted / ~~extended~~ / ~~refused~~ / ~~withdrawn~~ ⁽¹⁾

13. Place : Zoetermeer

14. Date : 24-AUG-2011

15. Signature :

A handwritten signature in black ink is written over a circular official stamp. The stamp features a coat of arms with a crown on top and the text 'RDW' at the bottom. To the right of the stamp, the name 'J.D. Vecht' is printed in a bold, sans-serif font.

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.

(1) Strike out what does not apply.

(2) For lamps with non-replaceable light sources indicate the number and the total wattage of the light sources.

Re Application date : July 14, 2011

1. Specification data

Type			
Function	Side Marker Lamp		
Emitted color	Amber		
Rated	Voltage	12V(Input range: 10V~30V)	
	Wattage	0.5W	
Applicable Regulation (ECE)		R91.00 Category SM1	
Number and category of filament lamp(light source)		4LEDs, 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

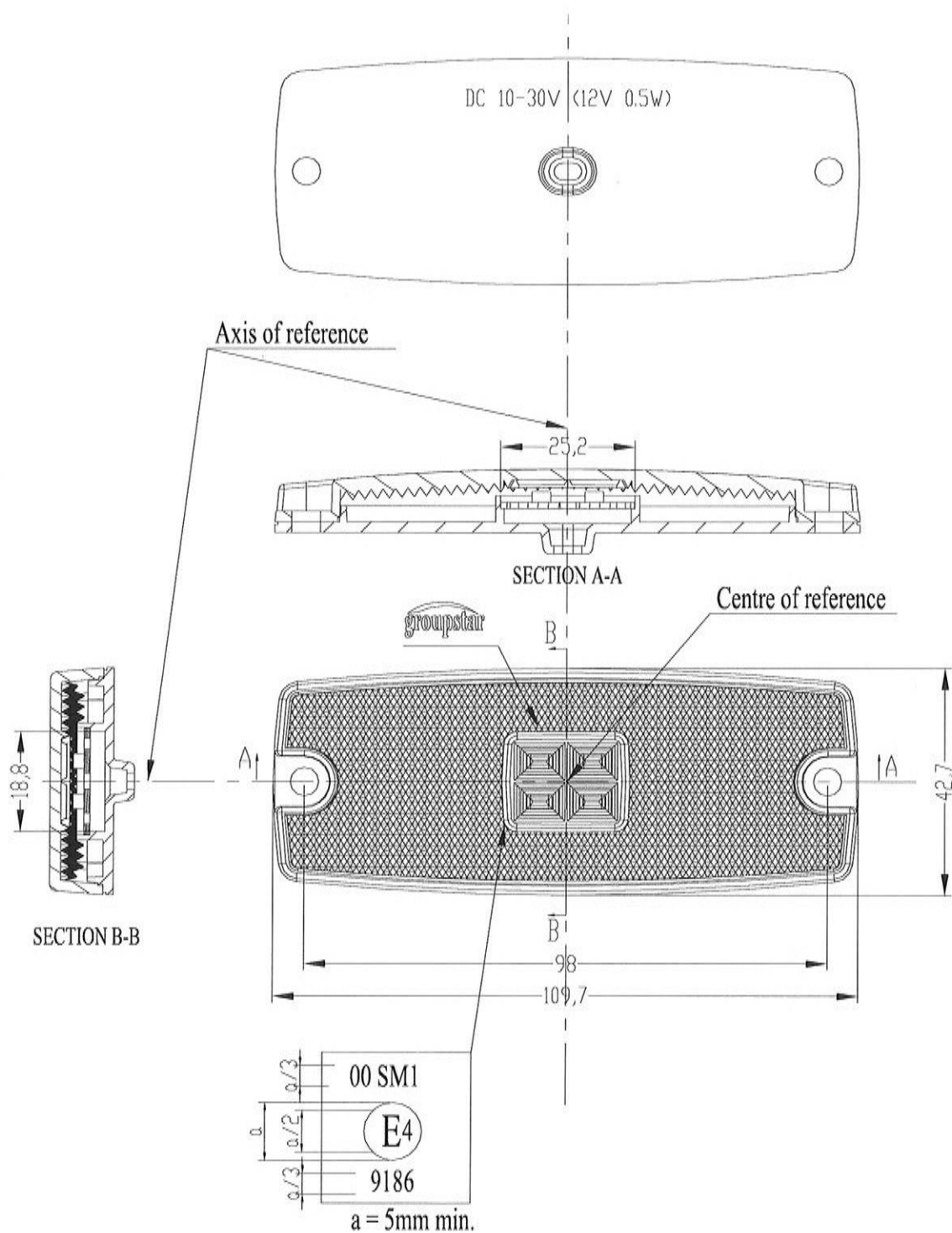
Construction	Material	Remarks
Outer lens	PC	Clear
Housing	ABS	-
Electrical wiring	Copper covered with insulation	-

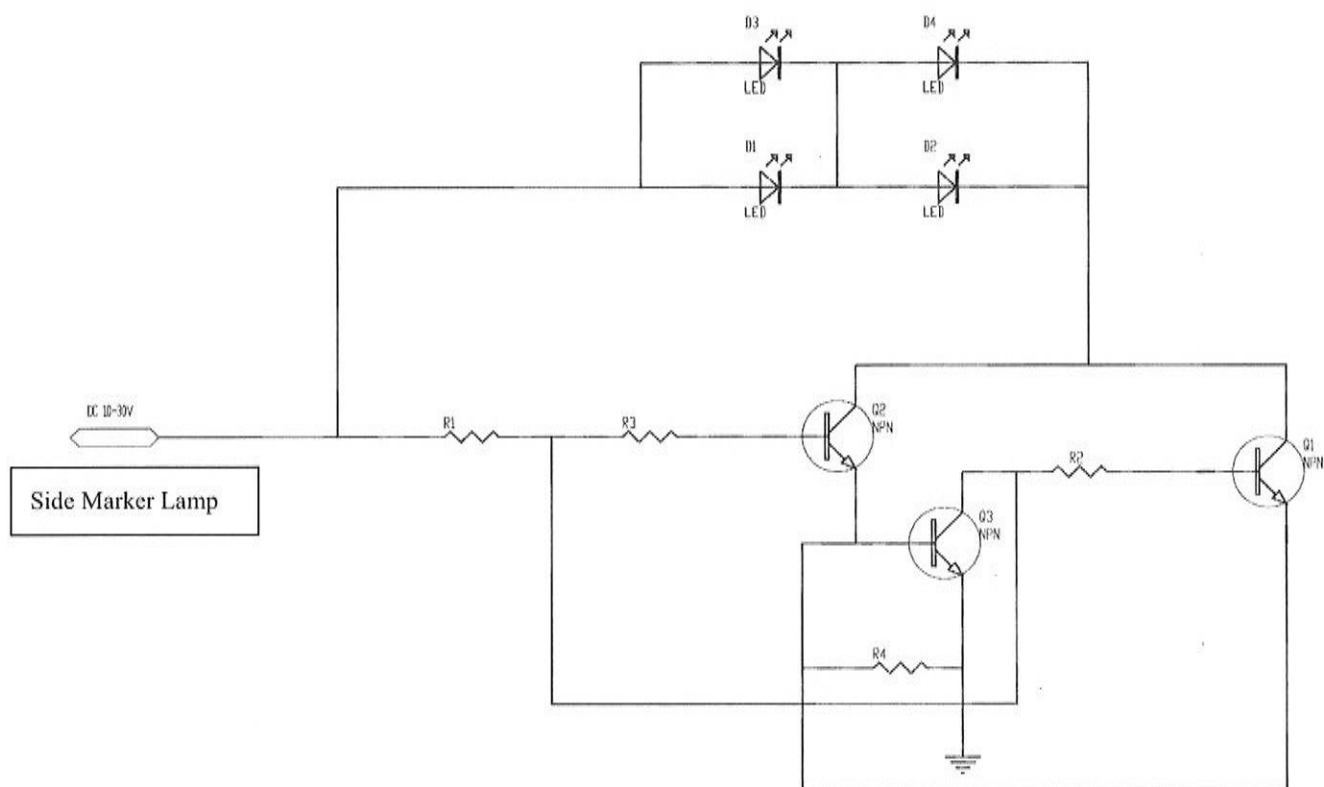
3. Name and address of manufacturer :

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

This information document consists of 3 pages.







4LEDs, 12V 0.5W, Non-replaceable light source



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 :
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 :
 date of issue : July 14, 2011
 date of last amendment : ---

1. Test object(s) and general test information

- 1.1. Test object(s)
 identification number : ---
 version : ---
 Remark : light source: 4LEDs, non-replaceable light source
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 : August 03, 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.

TEST REPORT

according to ECE-Regulation

Uniform provisions concerning the approval of side marker lamps for motor vehicles and their trailers

ECE-R91

including all amendments until

series of Amendments: 00

Supplement 12

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 :

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 0.~~

An actual test of the type was not required. The results of the previous tests are still valid.~~delete if unnecessary~~
- 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.

The single lamp containing more than one light source complies with the minimum intensity required when any one light source has failed.

Manufacturer :
Type :

Results of photometric tests of the **Side marker lamp, Category SM1:**

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	5.72	25	4
sample no. 2	6.08	25	4

measured after 30 minutes burning period when all light sources lit

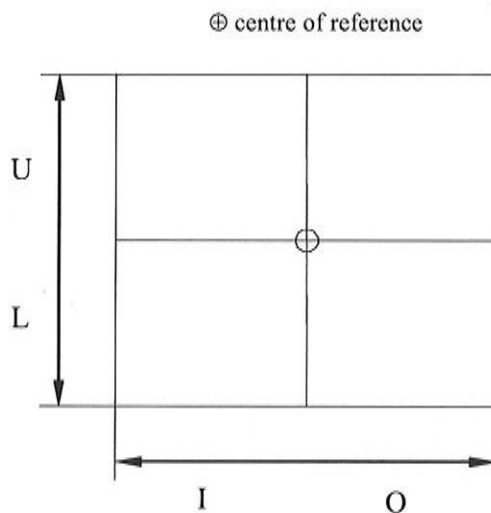
horizontal angle		L45°	V	R45°
vertical angle	U10°	0.6	-	0.6
required minimum intensity	H	-	4.0	-
	D10°	0.6	-	0.6
vertical angle	U10°	1.76	-	1.99
sample no. 1	H	-	5.55	-
	D10°	1.79	-	1.94
vertical angle	U10°	1.83	-	2.06
sample no. 2	H	-	5.76	-
	D10°	1.87	-	2.02

	sample no. 1	sample no. 2	allowable maximum	required minimum
maximum intensity [cd]	5.64	5.87	25	--
minimum intensity in the fields defined in Annex 1 of the Regulation [cd]	1.72	1.77	--	0.6

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 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]
Side marker lamp	9	9	12	12

- 2.6. Explanatory note : Not applicable

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

1 Information folder no.

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, August 04, 2011
ND/HH



B.S.M.E. N. Deng

Manufacturer
Type

:
:
:

..

List of modifications

Appendix 0

Correction of : ---

Modification of : ---

Addition of : ---

Deletion of : ---

January 23, 2013

RDW rijksdienst voor het wegverkeer
Certification and Supervision
Europaweg 205
2700 AT Zoetermeer
The Netherlands

Subject for ECE-type approval

Dear Sir:

We hereby apply for type approval according to:

Function	ECE approval number	EEC approval number
Side retro-reflector	E4-3R-023612	---

Trade name or trade mark :

Manufacturer's name for type of device :

Name and address of manufacturer :

We herewith declare that we have not applied and will not apply for approval with another Contracting Party of the ECE for the same type of product. Nor has any other member state granted a corresponding approval.

Sincerely

Signature:



Name: Mr. Xie Xinmiao / General Manager





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 retro-reflecting device pursuant to Regulation No. 3

Approval No.: **E4-3R-023612**

Extension No : 00

Approval mark:

02 IB



3612

1. Trade name or mark of the device :
2. Manufacturer's name for the type of device :
3. Manufacturer's name and address :
4. If applicable, name and address of manufacturer's representative : not applicable
5. Submitted for approval on : January 23, 2013
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 : February 2, 2013
8. Number of test report : 87-R3-085/13



P.O. Box 777
2700 AT Zoetermeer
The Netherlands

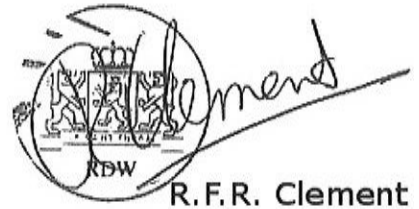
Tel. + 31 (0)79 345 81 43
Fax + 31 (0)79 345 80 43
www.rdw.nl

Vehicle Approval and Information

Approval No.: E4-3R-023612

Extension No.: 00

9. Concise description
- In isolation/~~part of an assembly of devices~~⁽¹⁾ : class IB
- Colour of light emitted : ~~white/red~~/amber⁽¹⁾
- Installation as an integral part of a lamp which is integrated into the body of a vehicle : yes/~~no~~⁽¹⁾
- Geometric conditions of installation and relating variations, if any : see the attached information folder
10. Position of the approval mark : on the lens
11. Reason(s) for extension (if applicable) : ---
12. Approval : granted/~~extended~~/~~refused~~/~~withdrawn~~
13. Place : Zoetermeer
14. Date : 08-FEB-2013
15. Signature :



R.F.R. Clement

16. The following documents, bearing the approval number shown above, are available on request.
- Information document
 - Test report

⁽¹⁾ Strike out which does not apply

Application date : January 23, 2013

1. Specification data

Type			
Function	Side retro-reflector		
Emitted color	Amber		
Rated	Voltage	---	
	Wattage	-----	
Applicable Regulation (ECE)		R3.02 Class IB	
Number and category of filament lamp(light source)		---	
Location of marking	Rated Voltage and Wattage	---	
	Trade mark		Marked on Lens
	Approval mark	Marked on Lens	

2. Construction and material

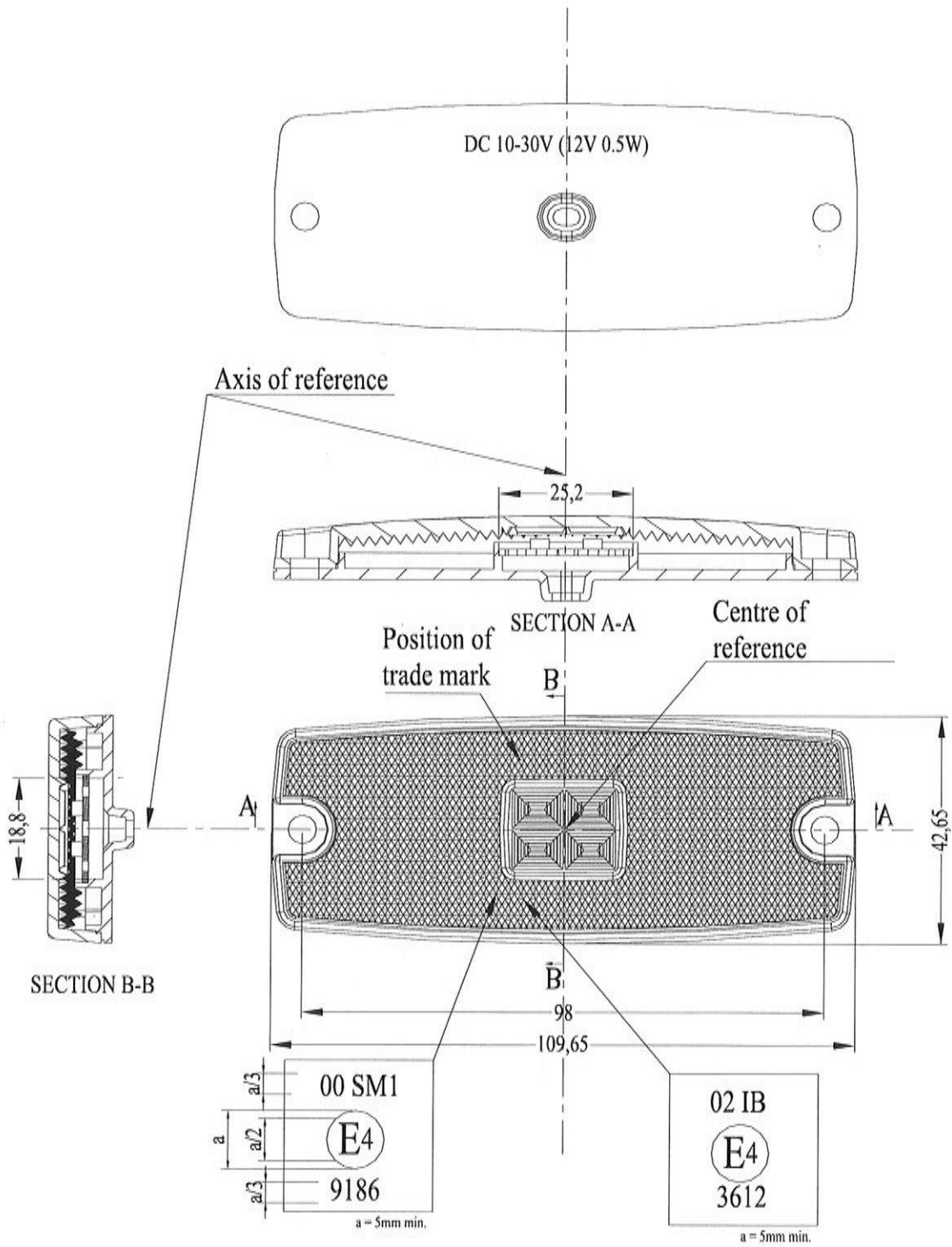
Construction	Material	Remarks
Outer lens	PC	Amber
Housing	ABS	-
Electrical wiring	Copper covered with insulation	-

3. Name and address of manufacturer :

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

This information document consists of 2 pages.





TEST REPORT

According to ECE-Regulation

**uniform provisions concerning the approval of retro reflecting devices
for power-driven vehicles and their trailers**

ECE-R3

including all amendments until

**series of Amendments:02
supplement 12**

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 :
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 :
date of issue : January 23, 2013
date of last amendment : ---

1. Test object(s) and general test information

- 1.1. Test object(s)
identification number : ---
version : ---
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 : February 1, 2013
1.2.4. Test site : Automotive Component Testing Center of Ningbo
No. 99, Jingu South Road, Yinzhou Investment & Business
Incubation, 315104, Ningbo,
P.R. 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 :

:
:

Product name:

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 0.~~

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.

Space for the approval mark and for additional symbols is provided on the lens of the lamp.
- 2.3. General specifications : The retro reflector is designed and made that under normal use their satisfactory operation is ensured and they retain the required characteristics.

The components are not capable of being easily dismantled, and the optical unit is not replaceable.

The shape and dimension of retro reflector is in accordance with the stated in Annex 5 of the Regulation.

The test samples have been tested in the chronological order indicated in Annex 12 of the Regulation, and in accordance with the test procedure stated in Annex 4 of the Regulation.

Manufacturer :
Type :

2.4. Special tests : class IB

number of Annex	test	test samples	result of examination	remark
5	shape and dimensions	all	complying	
6	colormetry	all	complying	
10	heat	all	complying	
7	photometry	all	complying	20', V=H=0°
7	photometry	6 and 7	refer to 2.5.	complete
8(1.2.)	moisture and dust exposure	8 and 9	complying	
8	motor fuels	8 and 9	complying	
	oils	8 and 9	complying	
4	colormetry	8 and 9	complying	
	photometry	8 and 9	complying	20', V=H=0°
8	corrosion	---	---	not applicable *)
	abrasive - strength	---	---	
9	stability of optical properties with ageing	---	---	not examined
11	colour-fastness	---	---	not examined

*) Remark

: the device does not incorporate any metal component, the rear face of the device is not accessible

Manufacturer :
Type :

2.5. Photometric tests

: Results of photometric tests of reflex (retro) reflector, class IB
coefficients of luminous intensity (CIL) in accordance with Annex 7
of the Regulation.

Number of sample	CIL measured [mcd/lux] (20', V=H=0°)	Minimum value required *)
1	1009	≥ 750
2	1027	
3	1015	
4	1038	
5	1026	
6	1006	
7	1054	
8	1016	
9	1026	
10	1035	

distribution of the intensity of the retro reflector [mcd/lux]								
		sample no. 7			sample no. 6			required min. *)
horizontal angle		L20°	V	R20°	L20°	V	R20°	
vertical angle $\alpha=20'$	U10°	-	833.5	-	-	798.5	-	500
	U5°	595.8	-	572.6	571.3	-	549.1	250
	H	-	1054	-	-	1006	-	750
	D5°	601.6	-	550.6	573.9	-	537.3	250
	D10°	-	814.9	-	-	777.1	-	500
vertical angle $\alpha=1^{\circ}30'$	U10°	-	62.03	-	-	58.35	-	7
	U5°	44.35	-	37.94	40.70	-	35.23	6.25
	H	-	89.50	-	-	84.13	-	12.5
	D5°	48.23	-	41.80	44.91	-	38.81	6.25
	D10°	-	66.68	-	-	63.62	-	7

*) Remark

: minimum requirements for amber retro reflector of class IB.

Manufacturer :
Type :

2.6. Colour : The requirements regarding the visual test for colorimetric specifications had been met (Amber).

2.7. Explanatory note : not applicable

2.8. Variants and components : ---

3. Remark concerning tested object(s)

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

4. Appendices

0 List of modifications

1 Information folder no. :

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:

Designation Number: RDW-99050014-06.

The test report comprises the pages 1 to 7 (including appendix 0) and shall not be reproduced except in full without the written approval of the test laboratory.

Engineering Center Guangdong, February 2, 2013
ND/HH



B.S.M.E. N. Deng

Manufacturer : -
Type :



List of modifications

Appendix 0

Correction of : - --

Modification of : - --

Addition of : - --

Deletion of : - --

