



Shanghai CATA Signal CO., Ltd.

RDW
Certification and Supervision Centre
Europaweg 205
P. O. Box 777
2700 AT Zoetermeer
The Netherlands

Subject for ECE-type approval

Dear Sir :

We hereby apply for type approval according to ECE:

Trade name or trade mark :  ,  , K&T,
Manufacturer' s name for type of device : Side marker lamp AL1080-SMR
Name and address of manufacturer : Shanghai CATA Signal CO.,Ltd.
No. 89, Nanxuan Road, Nanhui Industrial
Park, 201314 Shanghai, P.R. China

We here with 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

MANUFACTURER' S STAMP

Signature:



Zhang Wen Hu

Name: Wanhu Zhang

Date: June 12 , 2010

THIS APPLICATION IS ACCOMPANIED BY

- Information folder No. AL1080-SMR-00 for the devices
- The test reports





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- ~~APPROVAL WITHDRAWN~~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 91.

Approval number: E4-91R-0014802

Extension number:00

Approval mark:

IA SM1
02 00

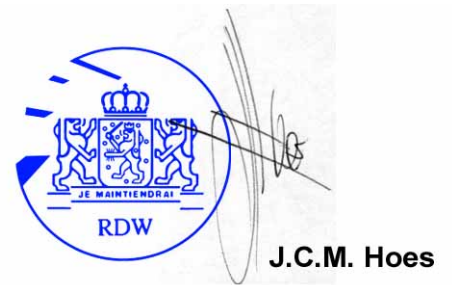


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- | | | | |
|----|--|---|--|
| 1. | Trade name or mark of the device | : | |
| 2. | Manufacturer's name for the type of device | : | AL1080-SMR |
| 3. | Manufacturer's name and address | : | Shanghai CATA Signal Co.,Ltd.
No.89,Nanxuan Road, Nanhui Industrial Park,
201314 Shanghai, P.R.China |
| 4. | If applicable, name and address of the manufacturer's representative | : | --- |
| 5. | Submitted for approval on | : | June 12, 2010 |
| 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 13, 2010 |
| 8. | Number of report issued by that service | : | 87-R91-297/10 |



9. Concise description ^{3/}
- Colour of light emitted : amber/~~red~~/ ^{2/}
- Number and category(ies) of filament lamp(s) : 0.5W at 12V, Non-replacement light source, LEDs.
0.5W at 24V
- Light source module : ~~yes~~/no ^{2/}
- Light source module specific identification code : ---
- Geometrical conditions of installation and relating variations, if any : ---
10. Position of the approval mark : on the lens
11. Reason(s) for extension (if applicable) : ---
12. Approval : granted/~~extended~~/~~refused~~/~~withdrawn~~ ^{2/}
13. Place : Zoetermeer
14. Date : 25-AUG-2010
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.

1/ Distinguishing number of the country which has granted/extended/ refused/withdrawn approval (see approval provisions in the Regulation).

2/ Strike out what does not apply.

3/ For lamps with non-replaceable light sources indicate the number and the total wattage of the light sources.


Shanghai CATA Signal CO., Ltd.

Information folder No.AL1080-SMR-00

Page 1 of 4

First application date: **June 12, 2010**

1. Specification data

Type		AL1080-SMR	
Function		Side marker lamp	Side reflex reflector
Color		Amber	Amber
Rated	Voltage	12V and 24V	---
	Wattage	0.5W	---
Applicable Regulation (ECE)		ECE R91	ECE R3
Location Of marking	Filament Lamp category	LED	---
		Marked on housing	---
Trade mark			
		Marked on lens	

2. Construction and material

Construction	Material	Remarks
Lens	PMMA	Amber
Housing	ABS	
Electrical wiring	---	---

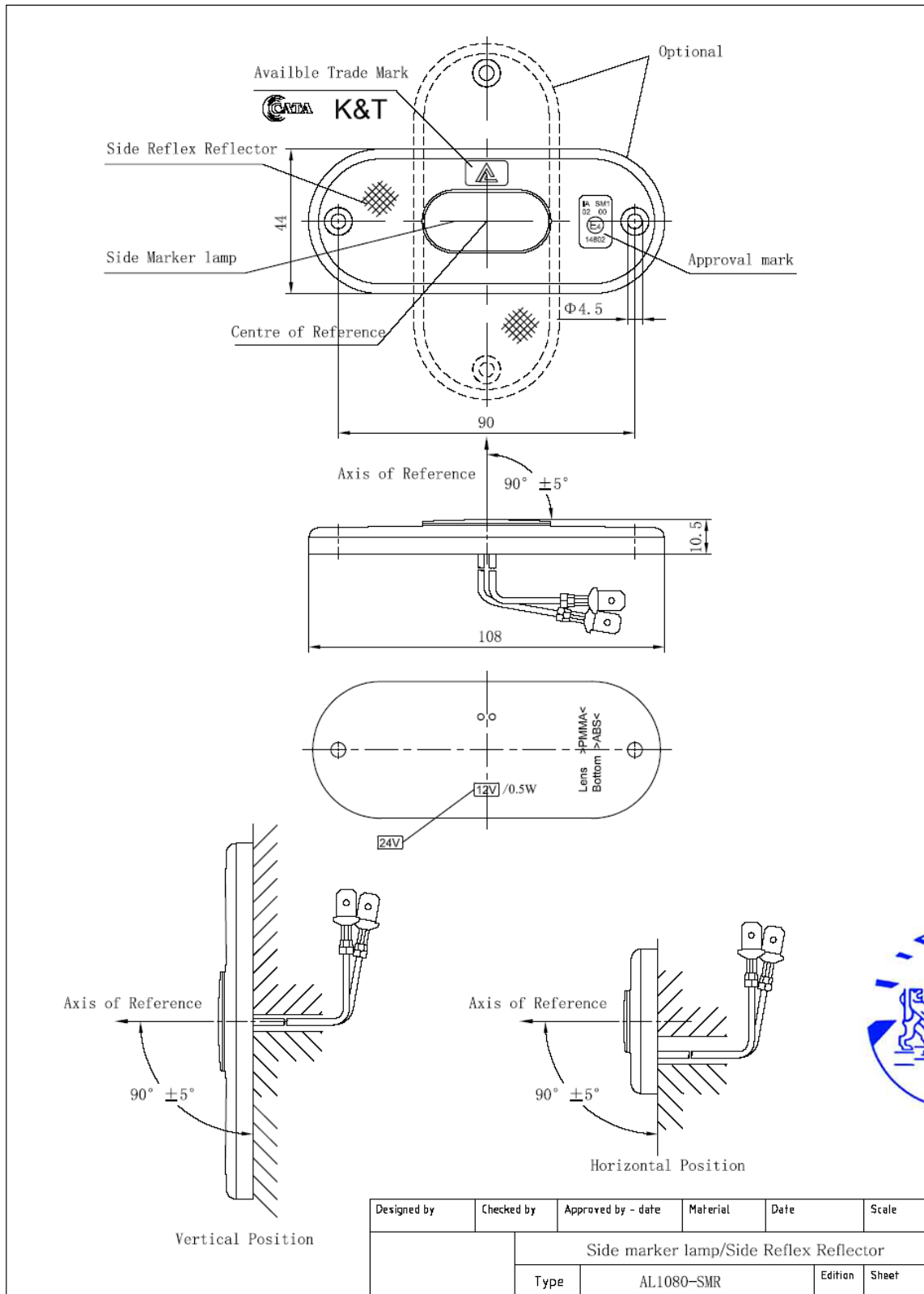
3. Name and address of manufacturer : Shanghai CATA Signal CO.,Ltd.

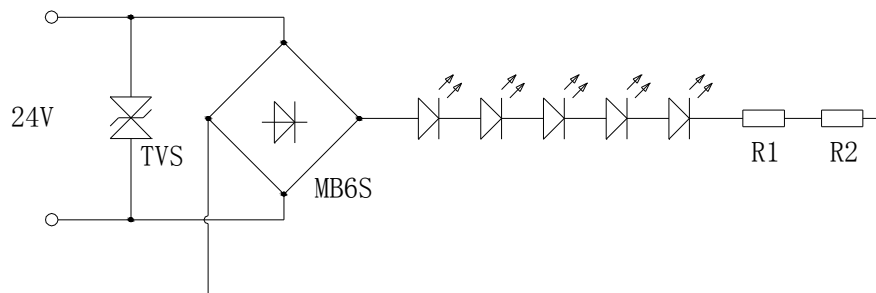
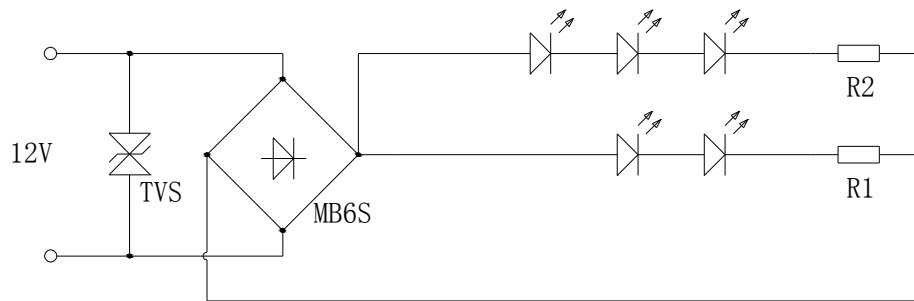
No. 89, Nanxuan Road, Nanhui Industrial Park,
201314 Shanghai, P. R. China

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

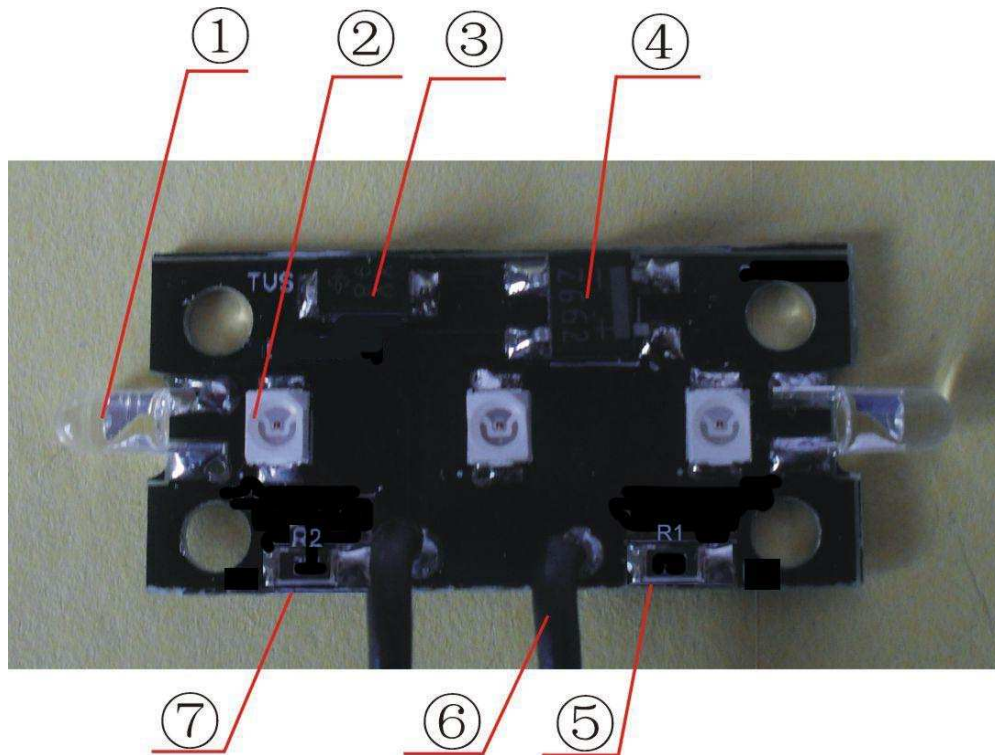


This information document consists of 4 pages





Designed by	Checked by	Approved by - date	Material	Date	Scale
			Circuit Diagram		
		Drawing No.	AL1080-SMR	Edition	Sheet



Bill of Materials

No.	Park Name	Type	Drawing No.	Qty	Remark
1	LED	Φ3		2	Yellow
2	LED	3528		3	Yellow
3	Suppressor diode	SMAJ20A	TVS	1	For 12V
	Suppressor diode	SMAJ36CA	TVS	1	For 24V
4	Silicon bridge rectifiers	MB6S		1	
5	Resistance	1/4W	R1	1	
6	wire	2*0.5 ²		2	
7	Resistance	1/4W	R2	1	



Manufacturer : Shanghai CATA Signal Co.,Ltd.
Type : AL1080-SMR

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-R91

including all amendments until
series of Amendments: 00
Supplement 9


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 : Shanghai CATA Signal Co.,Ltd.
 Type : AL1080-SMR

0. General information

- 0.1. Trademark or trade name of the lamp : 
- 0.2. Manufacturer's name for the type of the lamp : AL1080-SMR
- 0.3. Name and address of the manufacturer : Shanghai CATA Signal Co.,Ltd.
 No.89,Nanxuan Road, Nanhui Industrial Park, 201314
 Shanghai, P.R.China
- 0.4. Name and address of manufacturer's authorized representative : not applicable
- 0.5. No. of information folder : AL1080-SMR-00
 date of issue : June 12, 2010
 date of last amendment : ---

1. Test object(s) and general test information

- 1.1. Test object(s)
- identification number : ---
- version : ---
- Remark : Side marker lamp
- Lamp type:
 Non-replacement light source, LEDs, 0.5W at 12V
 0.5W at 24V
- 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 : June 12, 2010
- 1.2.4. Test site : Shanghai Motor Vehicle Inspection Center
 68, Yutian South Road, Anting, Jiading, 201805,
 Shanghai, 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 : Shanghai CATA Signal Co.,Ltd.
 Type : AL1080-SMR

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 are 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 ~~and on the housing~~ of the lamp.
- 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.

Manufacturer : Shanghai CATA Signal Co.,Ltd.
 Type : AL1080-SMR

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

test voltage 13.5V, horizontal installation, after 30 minutes operation:

horizontal angle		L45°	V	R45°
vertical angle	U10°	--	0.6	--
required minimum	H	0.6	4.0	0.6
intensity	D10°	--	0.6	--
vertical angle	U10°	--	4.91	--
sample no. 1	H	1.95	7.64	1.63
(left side)	D10°	--	3.91	--
vertical angle	U10°	--	4.83	--
sample no. 2	H	1.61	8.00	1.59
(right side)	D10°	--	4.57	--

	sample no. 1	sample no. 2	allowable maximum	required minimum
maximum intensity [cd]	7.64	8.00	25	--
minimum intensity in the fields defined in Annex 1 of the Regulation [cd]	1.20	1.01	--	0.6

Manufacturer : Shanghai CATA Signal Co.,Ltd.
 Type : AL1080-SMR

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

test voltage 13.5V, vertical installation, after 30 minutes operation:

horizontal angle		L45°	V	R45°
vertical angle	U10°	--	0.6	--
required minimum	H	0.6	4.0	0.6
intensity	D10°	--	0.6	--
vertical angle	U10°	--	5.52	--
sample no. 1	H	1.21	7.21	1.18
(left side)	D10°	--	5.39	--
vertical angle	U10°	--	5.83	--
sample no. 2	H	1.23	8.10	1.22
(right side)	D10°	--	5.58	--

	sample no. 1	sample no. 2	allowable maximum	required minimum
maximum intensity [cd]	7.21	8.10	25	--
minimum intensity in the fields defined in Annex 1 of the Regulation [cd]	1.00	1.01	--	0.6

Manufacturer : Shanghai CATA Signal Co.,Ltd.
 Type : AL1080-SMR

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

test voltage 28V, horizontal installation, after 30 minutes operation:

horizontal angle		L45°	V	R45°
vertical angle	U10°	--	0.6	--
required minimum	H	0.6	4.0	0.6
intensity	D10°	--	0.6	--
vertical angle	U10°	--	3.37	--
sample no. 1	H	1.62	5.78	1.39
(left side)	D10°	--	3.58	--
vertical angle	U10°	--	3.34	--
sample no. 2	H	1.67	5.89	1.40
(right side)	D10°	--	3.66	--

	sample no. 1	sample no. 2	allowable maximum	required minimum
maximum intensity [cd]	5.78	5.89	25	--
minimum intensity in the fields defined in Annex 1 of the Regulation [cd]	1.06	1.07	--	0.6

Manufacturer : Shanghai CATA Signal Co.,Ltd.
 Type : AL1080-SMR

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

test voltage 28V, vertical installation, after 30 minutes operation:

horizontal angle		L45°	V	R45°
vertical angle	U10°	--	0.6	--
required minimum	H	0.6	4.0	0.6
intensity	D10°	--	0.6	--
vertical angle	U10°	--	4.30	--
sample no. 1	H	1.00	6.11	0.99
(left side)	D10°	--	5.06	--
vertical angle	U10°	--	4.09	--
sample no. 2	H	1.00	5.56	1.06
(right side)	D10°	--	4.21	--

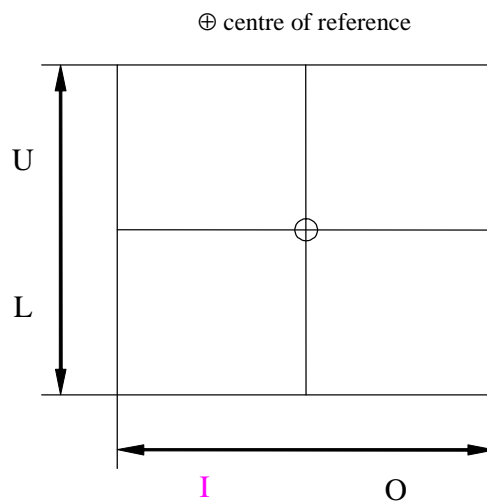
	sample no. 1	sample no. 2	allowable maximum	required minimum
maximum intensity [cd]	6.11	5.56	25	--
minimum intensity in the fields defined in Annex 1 of the Regulation [cd]	0.86	0.87	--	0.6

Manufacturer : Shanghai CATA Signal Co.,Ltd.
 Type : AL1080-SMR

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 4 of the Regulation.

Vertical and horizontal outlines of the illuminating surface of the light-signalling device in relation to the centre of reference.

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 (horizontal installation)	8	8	15	15
Side marker lamp (vertical installation)	15	15	8	8

2.6. Explanatory note : This report describes the examination of the side marker 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 : Side retro-reflector
 Test Report No. : 87-R3-298/10

Manufacturer : Shanghai CATA Signal Co.,Ltd.
Type : AL1080-SMR

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. : AL1080-SMR-00

5. Statement of conformity

The information folder and the type described there comply with the requirements in the above mentioned directive/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 10 and shall not be reproduced except in full without the written approval of the test laboratory.

Cologne, August 13, 2010
ND/ZFL



B.S.M.E. N.Deng

Manufacturer : Shanghai CATA Signal Co.,Ltd.
Type : AL1080-SMR

List of modifications

Appendix 0

Correction of : ---

Modification of : ---

Addition of : ---

Deletion of : ---