# 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





Name and address of manufacturer

Manufacturer's name for type of device: High-mounted stop lamp: AL10027S3 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:



THIS APPLICATION IS ACCOMPANIED BY

- Information folder No. AL10027S3-00 for the devices
- The test reports





### THE NETHERLANDS

**RDW** 

(NEDERLAND)





#### **COMMUNICATION**

### Concerning<sup>(1)</sup>:

- APPROVAL GRANTED
- APPROVAL EXTENDED
- APPROVAL REFUSED
- APPROVAL WITHDRAWN
- PRODUCTION DEFINITELY DISCONTINUED

of a type of device pursuant to Regulation number 7.

Approval No.: E4-7R-027981 Extension No.: 00

Approval mark

S3 02 (E4) 7981

1. Trade name or mark of the device



2. Manufacturer's name for the type of device : AL10027S3

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 : October 6, 2008

6. Technical service responsible for conducting

approval tests

: TÜV Rheinland Kraftfahrt GmbH Technologiezentrum Verkehrssicherheit Typprüfstelle Fahrzeuge/Fahrzeugteile

Am Grauen Stein D-51105 Köln (Poll)

7. Date of report issued by that service : October 10, 2008

8. Number of report issued by that service : 87-R7-1530/08

I MAINTIE NOR AL RDW

P.O. Box 777 2700 AT Zoetermeer The Netherlands Tel. +31 (0)79 345 81 43 Fax +31 (0)79 345 80 33 www.rdw.nl Vehicle Approval and Information

Approval No.: E4-7R-027981 Extension No.: 00

9. Concise description<sup>(2)</sup>

> By category of lamp : S3

For mounting either : outside or inside or both

Colour of light emitted : red /<del>white</del>

Number and category and kind of light

source(s)

: 2.1W at 12V, non replaceable light source, LED

2.1W at 24V

Voltage and wattage : 12V 2.1W and 24V 2.1W

Light source module specific identification : not applicable

code

Only of limited mounting height of equal to : yes / no

or less than 750 mm above the ground

Geometrical conditions of installation and

relating variations if any

: refer to the drawing of the information folder

Application of an electronic light source control gear/variable intensity control

(a) being part of the lamp (b) being not part of the lamp

Input voltage(s) supplied by an electronic light source control gear / variable intensity

control

10.

: 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 Position of the approval mark : on the lens

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

granted / extended / refused / withdrawn<sup>(1)</sup> 12. Approval

13. Place : Zoetermeer

: 23-OCT-2008 14. Date

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 upon request.

<sup>(1)</sup> Strike out what does not apply.

<sup>(2)</sup> 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. AL10027S3-00

Page 1 of 5

First application date: Oct 6, 2008

### 1. Specification data

1. Specification data						
Type		AL10027S3				
Function		High-mounted stop lamp				
Color		Amber				
Rated	Voltage	12V and 24V				
	Wattage	2. 1W				
Applicable Regulation (ECE)		ECE R7 category S3				
Location Of	Filament Lamp	Non-replaceable light source, LED				
marking	category	Marked on housing				
	Trade mark	<b>CATA</b>				
		Marked on lens				

#### 2. Constrution and material

Construction	Material	Remarks	
Lens	PC / PMMA		
Reflector	PC		
Housing	ABS		
Electrical wiring			

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

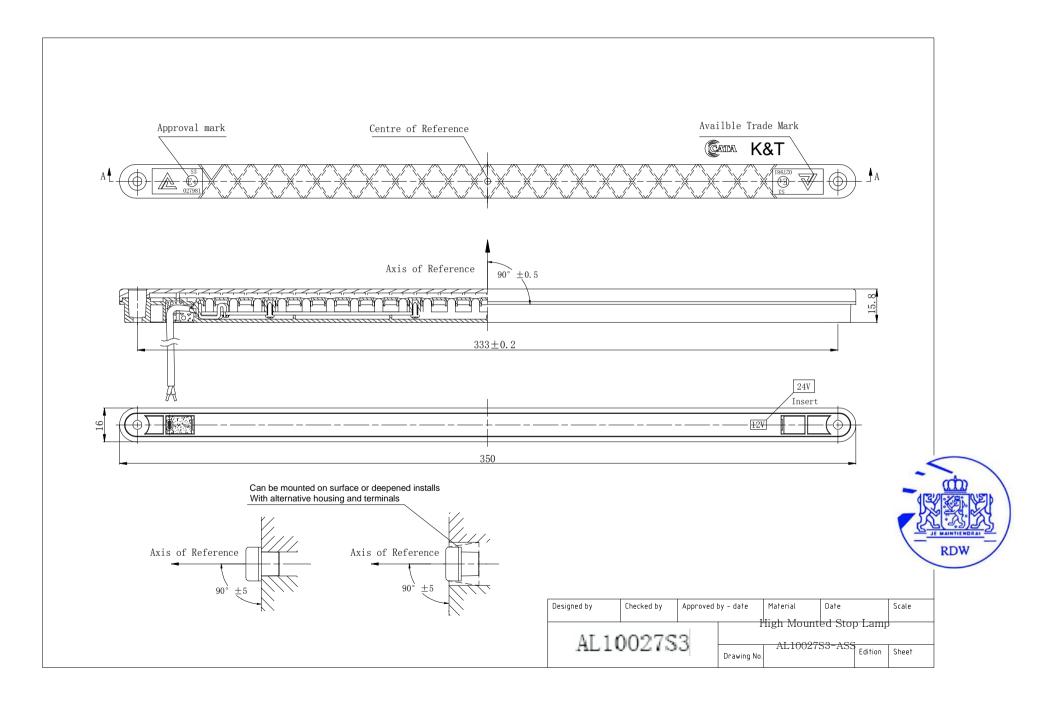
No. 89, Nanxuan Road, Nanhui Industrial Park,

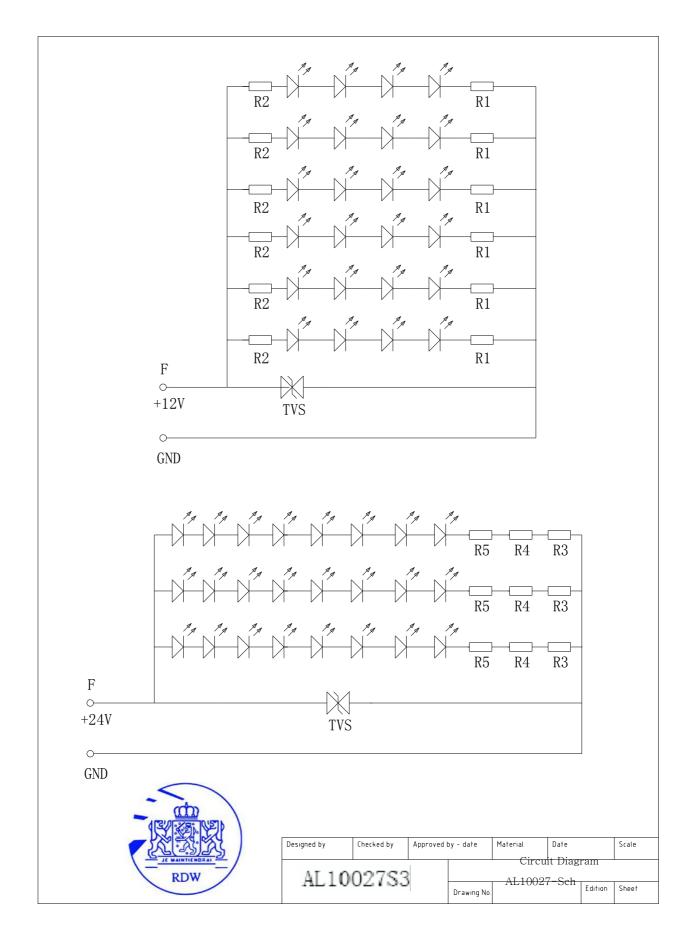
201314 Shanghai,

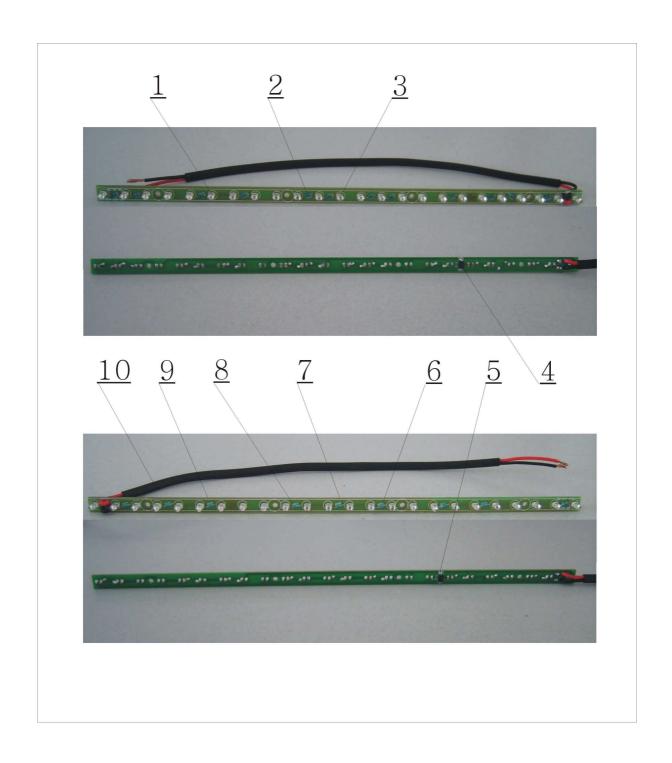
P.R.China

4. Name and address of representative  $\,:\,$  not applicable of manufacturer

This information document consists of 5 page









Information folder No. AL10027S3-00

	Bill of Materials							
No.	Park Name	Туре	Drawing No.	Qty	Remark			
1	LED	Ф3 ellipse		24	red			
2	Resistance	1/8W	R1	6	For 12V			
3	Resistance	1/8W	R2	6	For 12V			
4	Suppressor diode	SMAJ18A	TVS	1	For 12V			
5	Suppressor diode	SMAJ36CA	TVS	1	For 24V			
6	Resistance	1/8W	R3	3	For 24V			
7	Resistance	1/8W	R4	3	For 24V			
8	Resistance	1/8W	R5	3	For 24V			
9	PCB	1.5mm		1				
10	Cable	2*0. 5 <sup>2</sup>		1				





Manufacturer : Shanghai CATA Signal Co.,Ltd.

Type : AL10027S3

### **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 motor vehicles (except motor cycles) and their trailers

#### ECE-R7

including all amendments until

series of amendments 02 Supplement 12

Previously granted

ECE - certificate : ---

Structure of report: 1. Test object(s) and general test information

2. Test minutes

3. Remarks concerning tested object(s)

4. Appendices

5. Statement of conformity

# TÜV Rheinland Group Test report No.: 87-R7-1530/08



Manufacturer : Shanghai CATA Signal Co.,Ltd.

Type : AL10027S3

#### 0. General information

0.1. Trademark or trade name of the lamp

CATA; A; K&T

0.2. Manufacturer's name for the type of the lamp : AL10027S3

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 : AL10027S3-00 date of issue : October 6, 2008

date of last amendment : ---

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Accreditation: RDW-99050014-02

# TÜV Rheinland Group Test report No.: 87-R7-1530/08



Manufacturer : Shanghai CATA Signal Co.,Ltd.

Type : AL10027S3

### 1. Test object(s) and general test information

1.1. Test object(s)

identification number : --

version : ---

Remark : Stop lamp of category S3

lamp type:

non replaceable light source, LED, 2.1W at 12V

2.1W 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 : October 8, 2008

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.

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Accreditation: RDW-99050014-02

Test report No.: 87-R7-1530/08



Manufacturer Shanghai CATA Signal Co., Ltd.

AL10027S3 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

: The trade mark is marked clearly legible and indelible on the lens-and Markings

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.

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 inside the field of the light distribution

grid defined in paragraph 2 of Annex 4 is within the limits of the

coordinates for 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.

In case of different intensities of light emitted required by the

Regulation, the evaluations are based on the most unfavourable limits

specified.

The single lamp containing LEDs complies with the minimum

intensity required when anyone light source has failed.

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Test report No.: 87-R7-1530/08



Shanghai CATA Signal Co.,Ltd. AL10027S3 Manufacturer

Туре

Results of photometric tests of the **stop lamp S3** (test voltage: 13.5V)

distribution of the intensity of the lamps in [cd]						
horizontal angle		L10°	L5°	V	R5°	R10°
vertical angle	U10°	8		16		8
required	U5°	16	25	25	25	16
minimum	Н	16	25	25	25	16
intensity	D5°	16	25	25	25	16
vertical angle	U10°	15.41		23.41		16.75
	U5°	27.42	33.43	37.81	35.56	29.30
sample no. 1	Н	42.66	45.52	46.70	47.31	42.99
	D5°	48.60	50.13	48.80	49.96	47.71
vertical angle	U10°	19.11		26.35		18.07
	U5°	35.01	40.29	44.47	40.97	33.98
sample no. 2	Н	48.01	50.13	51.50	52.60	47.75
	D5°	47.47	48.23	48.12	50.81	48.14

	sample 1	sample 2	allowable maximum	required minimum
maximum intensity [cd]	50.04	52.91	110	
minimum intensity in the fields defined in annex 1 of the regulation [cd]	14.44	16.86		0.3

Test report No.: 87-R7-1530/08



Shanghai CATA Signal Co.,Ltd. AL10027S3 Manufacturer

Туре

Results of photometric tests of the **stop lamp S3** (test voltage: 28V)

distribution of the intensity of the lamps in [cd]						
horizontal angle		L10°	L5°	V	R5°	R10°
vertical angle	U10°	8		16		8
required	U5°	16	25	25	25	16
minimum	Н	16	25	25	25	16
intensity	D5°	16	25	25	25	16
vertical angle	U10°	25.35		37.63		27.73
	U5°	38.08	44.36	47.81	48.66	42.70
sample no. 1	Н	48.00	52.68	52.54	55.06	52.89
	D5°	45.70	51.21	51.59	50.03	49.98
vertical angle	U10°	17.45		26.08		19.20
	U5°	30.12	36.14	40.29	38.56	32.21
sample no. 2	Н	45.21	48.20	48.75	49.56	45.34
	D5°	49.80	51.95	50.47	51.13	48.74

	sample 1	sample 2	allowable maximum	required minimum
maximum intensity [cd]	54.05	51.56	110	
minimum intensity in the fields defined in annex 1 of the regulation [cd]	23.08	16.05		0.3

Test report No.: 87-R7-1530/08



Manufacturer : Shanghai CATA Signal Co.,Ltd.

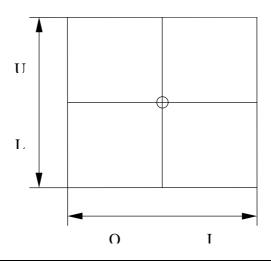
Type : AL10027S3

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

⊕ centre of reference



function	upper boundary (U)	lower boundary (L)	inner boundary (I)	outer boundary (O)
	[mm]	[mm]	[mm]	[mm]
Stop lamp S3	5	5	110	110

2.6. Explanatory note

: This report describes the examination of the stop 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 Technical Report No.

---

2.7. Variants and components

: 12V and 24V

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Accreditation: RDW-99050014-02

## TÜV Rheinland Group Test report No.: 87-R7-1530/08



Manufacturer : Shanghai CATA Signal Co.,Ltd.

Type : AL10027S3

#### 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. : AL10027S3-00

#### 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:

Certification Number: RDW-99050014-02.

The test report (including appendix 0) comprises the pages 1 to 9 and shall not be reproduced except in full without the written approval of the test laboratory.

Cologne, October 10, 2008

PC

B.S.M.E. P.Chen

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Test report No.: 87-R7-1530/08



Manufacturer : Shanghai CATA Signal Co.,Ltd.

Type : AL10027S3

List of modifications Appendix 0

Correction of : ---

Modification of : ---

Addition of : ---

Deletion of : ---