Shangyu Groupstar Electric Appliance Co., Ltd.

January 23, 2013

RDW rijksdenst 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	:	groupstar Groupstar RING
Manufacturer's name for type of device	:	GS-LCL1101A
Name and address of manufacturer	:	Shangyu Groupstar Electric Appliance Co., Ltd. Wufu Industrial Park, Shangyu City, Zhejiang Province, P.R. China

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









Vehicle Technology Division

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





COMMUNICATION

Concerning ⁽¹⁾: - approval granted <u>-approval extended</u> <u>-approval refused</u> <u>-approval withdrawn</u> <u>-production definitely discontinued</u>

of a type of retro-reflecting device pursuant to Regulation No. 3

Approval No.: E4-3R-023612

Approval mark:

Extension No.: 00

02	IB
E	4
36	12

1.	Trade name or mark of the device	:	groupstar, Groupstar, RING
2.	Manufacturer's name for the type of device	:	GS-LCL1101A
3.	Manufacturer's name and address	:	Shangyu Groupstar Electric Appliance Co., Ltd. Wufu Industrial Park, Shangyu City, Zhejiang Province, P.R. China
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



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RDW

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	:	$yes \neq no^{(1)}$
	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	:	Total A
			Allement

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

⁽¹⁾ Strike out which does not apply

R.F.R. Clement

Application date : January 23, 2013

1.	Specification	data
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Туре		GS-LCL1101A			
Function		Side retro-reflector			
Emitted color		Amber			
Rated	Voltage				
	Wattage				
	le Regulation	R3.02			
(1	ECE)	Class IB			
Number and category of filament lamp(light source)					
Location of marking	Rated Voltage and Wattage				
	Trade mark	groupstar, Groupstar, RING	Marked on Lens		
	Approval mark	Mar	ked on Lens		

2. Construction and material

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

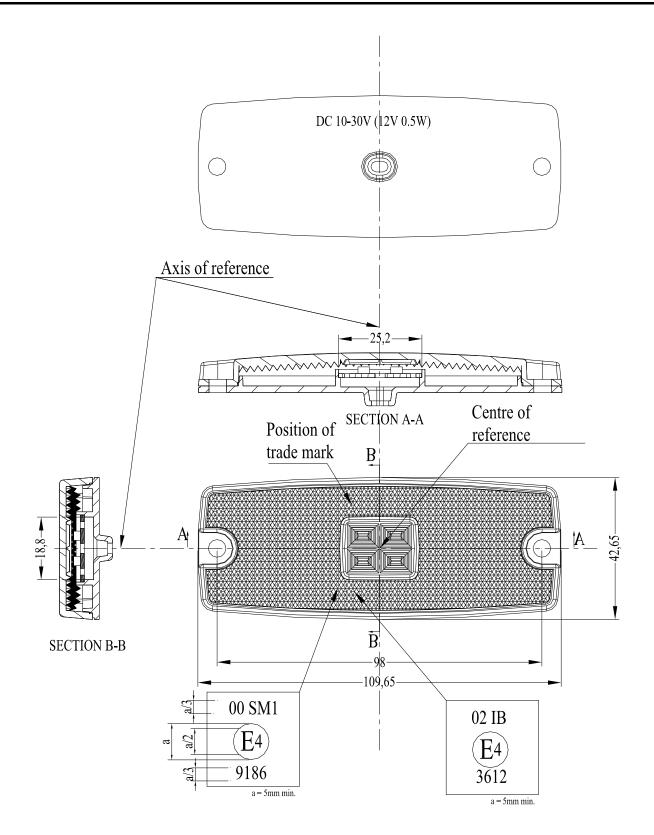
 3. Name and address of manufacturer
 Shangyu Groupstar Electric Appliance Co., Ltd. Wufu Industrial Park, Shangyu City, Zhejiang Province, P.R. China

4. Name and address of representative of manufacturer

: Not applicable

This information document consists of 2 pages.







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2



Manufacturer Type Shangyu Groupstar Electric Appliance Co., Ltd. GS-LCL1101A

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 supplenment 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	:	Shangyu Groupstar Electric Appliance Co., Ltd.
Туре	:	GS-LCL1101A



0. General information

0.1. Tra	demark or trade name of the lamp	:	groupstar
0.2. Ma	nufacturer's name for the type of the lamp	:	GS-LCL1101A
0.3. Na	me and address of the manufacturer	:	Shangyu Groupstar Electric Appliance Co., Ltd. Wufu Industrial Park, Shangyu City, Zhejiang Province, P.R. China
	me and address of manufacturer's authorized presentative	:	not applicable
dat	. of information folder e of issue e of last amendment	:	GS-LCL1101A-00 January 23, 2013
1. Test obj	ect(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	:	Shangyu Groupstar Electric Appliance Co., Ltd.
Туре	:	GS-LCL1101A



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	:	Shangyu Groupstar Electric Appliance Co., Ltd.
Туре	:	GS-LCL1101A



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 oils	8 and 9 8 and 9	complying complying	
4	colormetry photometry	8 and 9 8 and 9	complying complying	20', V=H=0°
8	corrosion abraisive - strength			not applicable *)
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	:	Shangyu Groupstar Electric Appliance Co., Ltd.
Туре	:	GS-LCL1101A



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	
2	1027	
3	1015	
4	1038	
5	1026	≥ 750
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	U10°	-	833.5	-	-	798.5	-	500
	U5°	595.8	-	572.6	571.3	-	549.1	250
α=20'	Н	-	1054	-	-	1006	-	750
	D5°	601.6	-	550.6	573.9	-	537.3	250
	D10°	-	814.9	-	-	777.1	-	500
vertical angle	U10°	-	62.03	-	-	58.35	-	7
	U5°	44.35	-	37.94	40.70	-	35.23	6.25
α=1°30'	Н	-	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.

TÜV Rheinland Kraftfahrt GmbH Designation: RDW-99050014-06

Manufacturer Type	 Shangyu Groupstar Electric Appliance Co., Ltd. GS-LCL1101A 	TÜVRheinland
2.6. Colour	: The requirements regarding the visual test for c specifications had been meet (Amber).	colorimetric
2.7. Explanatory note	: not applicable	
2.8. Variants and compone	enets :	

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. : GS-LCL1101A-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:

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

Den

B.S.M.E. N. Deng

Manufacturer Type	: Shangyu Groupstar Electric Appliance Co., Ltd. : GS-LCL1101A	TÜVRheinland
List of modifications		Appendix 0
Correction of	:	
Modification of	:	
Addition of	:	

Deletion of : - --



