昱奕科技股份有限公司

MICROLIGHT AUTO PARTS MFG. CO., LTD. 123-2, PEI TOU VILLAGE, KWAN MIAO TOWN, TAINAN HSIEN, TAIWAN, R.O.C.

TEL: 886-6-595-2441 FAX: 886-6-595-4663

APPLICATION FOR APPROVAL OF A TYPE OF LAMP ACCORDING TO ECE REGULATION NO. 03-02 SERIES OF AMENDMENTS

1. Trade name or mark of the device :

MELLA

2. Manufacturer's name of the device : M036E

3. Manufacturer's name and address : MICROLIGHT AUTO PARTS MFG. CO.,

LTD.

123-2, Pei Tou Village, Kwan Miao Town,

Tainan Hsien, Taiwan, R.O.C.

4. If applicable, name and address of

manufacturer's representative

: Not applicable

5. Category as described by the

relevant markings

: IA

6. Submitted for approval on(date) : August 27, 2007

Dennis Wang

Vennis Woma

We herewith confirm that above mentioned application has not been submitted to any other EC/ECE-Member State nor has Member State granted a corresponding type approval.

This application is accompanied by:

The test report







THE NETHERLANDS (NEDERLAND)





COMMUNICATION

Concerning (1)

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- approval withdrawn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

of a type of retro reflecting device pursuant to Regulation number 3.

RDW

Approval number: E4-3R-023302 **Extension number: 00**

Approval mark:

1. Trade name or mark of the device

2. Manufacturer's name for the type of

: M036E

3. Manufacturer's name and address : MICROLIGHT AUTO PARTS MFG. CO., LTD. 123-2, Pei Tou Village, Kwan Miao Town,

Tainan Hsien, Taiwan, R.O.C.

If applicable, name and address of the 4.

manufacturer's representative

: Not applicable

5. Submitted for approval on : August 27 to October 18, 2007

6. Technical service responsible for

conducting approval tests

: TÜV Rheinland Kraftfahrt GmbH Technologiezentrum Verkehrssicherheit

Typprüfstelle Fahrzeuge/Fahrzeugteile

Postfach 91 09 51

D-51101 Köln / Germany

7. Date of test report : November 13, 2007

> 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 number: E4-3R-023302 **Extension number: 00**

8. Number of test report : 84-R3-00201/07

9. Concise description

In isolation/part of an assembly of

devices (1)

: Isolation/part of an assembly of devices

: White/red/amber (1) Colour of light emitted

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

: Refer to the drawing of the information folder

10. Position of the approval mark : On the outer lens of the lamp

11. Reason(s) for extension (if applicable) : Not applicable

: Granted / extended / refused / withdrawn (1) 12. Approval

13. Place : Zoetermeer

14. Date : 14-Nov-2007

Signature 15.



16. The following documents, bearing the approval number shown above, are available on request: Application letter, test report, information folder and drawings.

Lamps-reflectors R3-02 v2.00 Page 2 of 2

⁽¹⁾ Strike out what does not apply.

Test Report No.: 84-R3-00201/07

Type : M036E



CO., LTD.



TEST REPORT

according to ECE-Regulation

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

No.: ECE-R3

including all amendments until

No.: 02 series of amendments, suppl. 10

Previously granted		
ECE - approval	:	

Structure of report: 0. General information

1. Test object(s) and general test information

2. Test minutes

3. Remark concerning tested object(s)

4. Appendices

5. Statement of conformity

The Test Report shall be reproduced and published in full by the client only. It shall however be reproduced partially with the written permission of the Testing Laboratory only.

TÜV Rheinland Kraftfahrt GmbH

Accreditation: RDW-99050014-03

Technologiezentrum Verkehrssicherheit Typprüfstelle Fahrzeuge/Fahrzeugteile Am Grauen Stein, D-51105 Köln (Poll)

Test Report No.: 84-R3-00201/07

/07

Type : M036E

Manufacturer : MICROLIGHT AUTO PARTS MFG.

CO., LTD.



0.1. Trade mark or trade name of

the lamp

MSLLP

0.2. Manufacturer's name for the

type of the lamp

: M036E

0.3. Name and address of the

manufacturer

: MICROLIGHT AUTO PARTS MFG. CO., LTD.

123-2, Pei Tou Village, Kwan Miao Town,

Tainan Hsien, Taiwan, R.O.C.

0.4. Name and address of the

manufacturer's authorised

representative

: Not applicable

0.5. No. of information document

date of issue

: August 27, 2007

date of last amendment

٠ __

: M036E

Test Report No.: 84-R3-00201/07

Type : M036E

Manufacturer : MICROLIGHT AUTO PARTS MFG.

CO., LTD.



1. Test object(s) and general test information

1.1. Test object(s)

- Identification no. : Not applicable

- Model : M036E

- Remark : - Front and Rear retro reflector class IA.

- This lamp has four versions which differ in the colour of

the outer lens and reflex:

Version A: Red outer lens and red reflex

Version B: Red outer lens and colour less reflex Version C: Colourless outer lens and red reflex

Version D: Colourless outer lens and colourless reflex - Version A is selected as representative version for the

type approval tests. The colourimetric tests of versions

B, C and D are performed.

1.2. General test information

1.2.1 Order issued by : --

(if different from manufacturer)

1.2.2 Test object received on : --

1.2.3 Test date : August 27 to October 18, 2007

1.2.4 Test site : Tao-Yuan and Lu-Kang / Taiwan

1.2.5 Remark : The results of the test refer exclusively to the objects

mentioned under point 1.1. of this report.

Test Report No.: 84-R3-00201/07

Type : M036E

Manufacturer : MICROLIGHT AUTO PARTS MFG.

CO., LTD.



2. Test minutes

2.1. Test facilities : The measurement equipment used was in compliance

with the test requirements.

2.2. Test results : The retro reflector has been tested according to the

amendments mentioned in Appendix 0. The photometric

values were carried over from the basic report.

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

the outer lens and on the housing of the lamp.

Space for the approval mark and for the additional

symbols is provided on the outer 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 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. In case of differences in the test procedure or requirements stated in the Regulation, the evaluations are based on the most unfavourable conditions specified

by either of the Annexes.

Accreditation: RDW-99050014-03

Test Report No.: 84-R3-00201/07

Type M036E



CO., LTD.



Special tests 2.4.

number of Annex	test	test samples	result of examination	remark
5	shape and dimensions	all	complying	
6	colorimetry	all	complying	
10	heat	all	complying	
7	photometry	all	complying	20', V=H=0°
7	photometry	c and f	see 2.5	complete
8	water penetr. motor fuels oils	d and h d and h d and h	complying complying complying	
4	colorimetry photometry	d and h d and h	complying complying	20', V=H=0°
8	corrosion abrasive - strength	1 1		not applicable*
9	stability of optical proper- ties with ageing			not examined
11	colour- fastness			not examined

^{*}Remark: The device does not incorporate any metal component and the rear face of the device is not watertight.

Am Grauen Stein, D-51105 Köln (Poll)

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Test Report No.: 84-R3-00201/07

Type : M036E



CO., LTD.



2.5. Photometric tests

Coefficients of luminous intensity (CIL) in accordance with Annex 7 of the Regulation Version A

V CISION 71								
distribution of the intensity of the retro reflector in [mcd/lux]								
		sample 1		sample 2			min.*	
horizontal angle		L20°	V°	R20°	L20°	V°	R20°	
vertical angle	U10°		717.0			738.0		200
	U5°	411.0		392.0	402.0		411.0	100
α=20'	Н		866.0			925.0		300
	D5°	407.0		375.0	400.0		401.0	100
	D10°		689.0			720.0		200
vertical angle	U10°		11.1			10.3		2.8
	U5°	8.9		7.5	8.0		7.2	2.5
α=1°30'	Н		20.3			20.2		5.0
	D5°	9.4		8.4	7.9		8.2	2.5
	D10°		13.3			12.4		2.8

^{*}Remark: Minimum requirements for red / white / amber retro reflector of class IA / IIIA / IVA / IB / IIIB.

2.6. Illuminating surface : Not applicable

2.7. Explanatory note : This report describes the examination of the retro

reflector 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.

--

2.8. Variants and components : Versions A, B, C and D

Type

Test Report No.: 84-R3-00201/07

: M036E

Manufacturer : MICROLIGHT AUTO PARTS MFG.

CO., LTD.



3. Remark concerning tested object(s)

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

4. Appendices

0 List of modifications

1 Information folder No. : M036E (1 page) (excluding drawings)

5. Statement of conformity

The above mentioned information folder and the type described in that comply with the requirements mentioned on page 1.

Cologne, November 13, 2007

BL/KFO

M.S.M.E. K. Fong

Typprüfstelle Fahrzeuge/Fahrzeugteile Am Grauen Stein, D-51105 Köln (Poll) 23-201e7.rdw

Test Report No.: 84-R3-00201/07

M036E

Type **Manufacturer** MICROLIGHT AUTO PARTS MFG.

CO., LTD.



List of modifications Appendix 0

> **Correction of** : --

> **Modification of**

Addition of

Deletion of

Application Type: M036E First Application Date: August 27, 2007

Application regulation:	ECE-R3-02 (class IA)
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1. Light Sources

Function	Light Color	Rated Voltage	Rated Wattage	Category (ECE-R37)
Rear retro reflector (Versions A, B, C)	Red	N/A	N/A	N/A
Front retro reflector (Version D)	White	N/A	N/A	N/A

2. Construction and Material

Construction	Material	Remark
Outer lens	PC	Red (for Versions A, B) Colourless (for Versions C, D)
Reflex	PC	Red (for Versions A, C) Colourless (for Versions B, D)
Reflector 1	Plastic	Aluminum vacuum coating
Reflector 2	Plastic	Aluminum vacuum coating
Housing 1	Plastic	
Housing 2	Plastic	Aluminum vacuum coating
Bezel	Plastic	Optional part

3. The locations of the trade mark(s), the lamp designation mark(s) and the approval mark(s) are indicated in the following drawing(s) attached:

M036E-1, M036E-2

4. Name and address of manufacturer:

MICROLIGHT AUTO PARTS MFG CO., LTD.

123-2, Pei Tou Village, Kwan Miao, Town, Tainan Hsien, Taiwan, R.O.C.

5. Name and address of representative of manufacturer:

Not applicable

6. Remarks

Date: August 27, 2007

Place: Tainan

Person in charge: Dennis Wang



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