

THE NETHERLANDS

(NEDERLAND)





COMMUNICATION

Concerning:

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- approval withdrawn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

of a type of reversing lamp pursuant to Regulation number 23.

RDW

Approval number: E4-23R-00 23283 Extension number: 00

1. Trade name or mark of the device :

DAPA

: DF-TRL010

2. Manufacturer's name for the type of

device

3. Manufacturer's name and address : Zhejiang Dahao Automotive Co., Ltd.

Xiaotian, Duqiao, Linhai,

Taizhou City Zhejiang, 317016,

China

4. If applicable, name and address of the

manufacturer's representative

Submitted for approval on 9 August 2012

Technical service responsible for

conducting approval tests : DEKRA Certification B.V.

7. Date of report issued by that service : 20 August 2012

8. Number of report issued by that service : 2155463-PHO 12-129-08

9 Concise description:

5.

Number, category and kind of light

source(s) : 19 x non-replaceable light sources (LEDs)

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: E4-23R-00 23283 Extension number: 00

Voltage and wattage : 12V; 3W

Application of an electronic light source control gear:

(a) Being part of the lamp : yes/no

(b) Being not part of the lamp : yes/no

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

Electronic light source control gear manufacturer and identification number (when the light source gear is part of the lamp but is not included

into the lamp body) : --

Light source module : yes/no

Light source module specific

identification code : --

Geometrical conditions of installation and relating variations, if any

and relating variations, it any

10. Position of the approval mark : See annexed drawing

11. Comments:

This device shall be installed on a

vehicle only as part of a pair of devices : yes/no

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

13. Approval : granted/extended/refused/withdrawn

14. Place : Zoetermeer

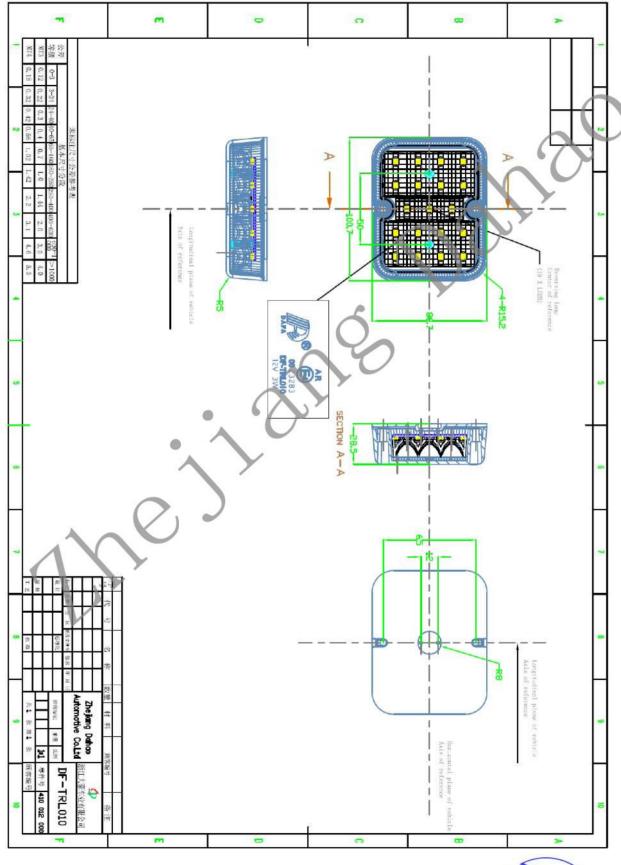
15. Date : 27-AUG-2012

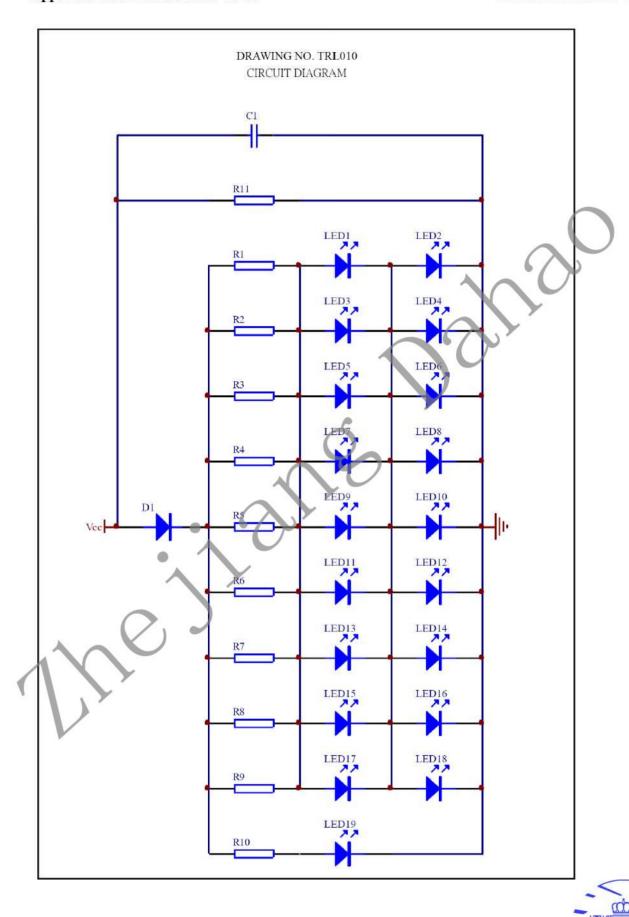
16. Signature :

R.F.R. Clement

17. The list of documents deposited with the Administrative Service which has granted approval is annexed to this communication and may be obtained on request.

- 3 Drawings No. DF-TRL010, DF-TRL010 Circuit diagram and Determination of the apparent surface (annexed)
- Test report as mentioned in item 8

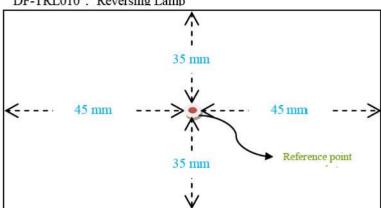




RDW

Determination of the apparent surface

DF-TRL010: Reversing Lamp









Approval testing of a reversing lamp trade mark



Arnhem, 20 August 2012 Author H.M. van der Kolk DEKRA Certification B.V. - Photometry

By order of Zhejiang Dahao Automotive Co., Ltd., Zhejiang, P.R. China

author: H.M. van der Kolk 20-08-2012 reviewed: G.C Muda 20-08-2012

B 13pages 4 annexes GCM

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SUMMARY

The tested samples of a reversing lamp marked type DF-TRL010 were found to comply with the requirements of ECE Regulation No.23-00.

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1 APPLICATION FOR APPROVAL TESTING

On 9 August 2012, Zhejiang Dahao Automotive Co., Ltd. in Zhejiang, P.R China submitted samples of a reversing lamp, trade name , type name DF-TRL010. All tests were performed in the laboratory of ISOQA in Taichung, Taiwan.

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The reversing lamp is equipped with 19 LEDs emitting uncoloured light. According to the manufacturer's technical decription, light sources are connected in parallel; when one light source failed, at most this LED will fail. The compliance of the n-1 rule was check by calculation.

A brief technical description and a drawing which were sufficiently detailed to permit identification of the model can be found in Annex 1 and 2 respectively.

The applicant desired an examination to check whether the reversing lamp is in compliance with the requirements of the ECE Regulation No. 23-00.

2 **EXAMINATION**

The examination was carried out in accordance with the relevant clauses of the regulation concerned. The tests were performed taking into consideration the manufacturer's information concerning centre and axis of reference. For the photometric tests a test voltage of 13.5 V was applied. The distance of measurement was 3.2 m.

3 RESULTS OF EXAMINATION

The results of the tests are summarised in Annex 3. Detailed results of the tests of the lamps are presented in Annex 4, tables 1 up to 2.

4 SUPPLEMENTARY REMARKS

The approval number 23283 was assigned. The approval marking is shown in the drawing of Annex 2.





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Information Document

of Model Number- <u>DF-TRL010</u>

Approval Number: 23283

Manufacturer's name and	address	Zhejiang Dahao Automotive Co., Ltd. Xiaotian, Duqiao, Linhai, Taizhou City Zhejiang, 317016 China			
Trade name or mark		III DATA			
Model Number		DF-TRL010			
Material of lens		PLASTIC			
	Category	AR			
Reversing Lamp	Light Source	19 x LEDs; 12V; 3W (if one LED fails, at most this LEDs fail)			
(Reg. 23)	Color of light emit	White			
	Color of lens	Clear			





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FRONT VIEW



SIDE VIEW



TOP VIEW



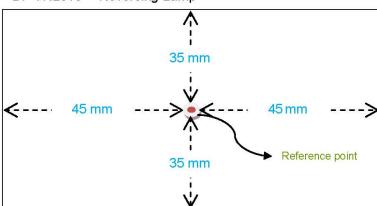


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Determination of the apparent surface

DF-TRL010: Reversing Lamp







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Examination of reversing lamp DF-TRL010 carried out according to the relevant clauses of the regulations concerned.

Clause No.		bject of the relevant nuse	Judgement of the device	Remark
3	1 2	trade name or mark space reserved for the approval mark	complies complies	
5	Ge a b	eneral specifications: intensity and colour of the light emitted maintenance of satis factory operation and of photometric charac	complies	see below under 6 and 8 by visual inspection only
	С	teristics field of visibility horizontal and vertical	complies	
6		ensity of the light nitted	complies	see Annex 4 ¹
8		lour of the light nitted	complies	2

¹ All light sources were connected in parallel; when one light source failed, at most this LED will fail. The compliance of the n-1 rule was check by calculation.

² Reversing Lamp emitted white color light : S1: x=0.4389,





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Reversing Lamp - sample 1 (S122437)

ISOQA

PHOTOMETRIC	RESULT	S						
Program:	00 (2005.05		ECE R 23 Reversing Lamp LED					
Intensity distribution			wo lamps)					
Name:	120680 DF	-TRL01	0 S122437 ECE	R23 AF	Reversin	a Lamp		
Number:	L120862							
Test distance:	3.176 m			Meas	no.:			1
Lamp type:	LED						6/	1
Number:	LED		10		731		- 1	7
Flux:	0.000 Im			Operator: Arthur Chang				
Voltage:	13.499 V		*	Date:		3/9/2012 8:		
Current:	0.204 A		*	Set val		Const volta		
X-offset:	0.00°		*	Y-offse		0.00°	7	
Comment:						4/ 7		
ECE R 23 Rever	sina Lamn	LED						
LOL IN ZO NOVOI	ong Lamp	LLU				,		
Function	Min	Max		alue	Н	1	V Unit	N.O.K
H - V(1min)		300		.100	0.00°			N.O.N
	80	27.000.00						2
H - V(30min)	80	300		.500	0.00°			6
10U - 10L 10U - V	10	300		270	-10.00° 0.00°			*
	15	300		340		50300000	No. of the second	
10U - 10R	10	300		830	10.00°	10.00		0.00
5U - 45R	15	300		.970	45.00°		The same of the sa	
5U - 10R	20	300		.400	10.00°			8
5U - V	25	300		.800	0.00°	100000000000000000000000000000000000000		
5U - 10L	20	300		.100	-10.00°	5.00		
5U - 45L	15	300		.460	-45.00°	5.00		
H - 45L	15	300		.350	-45.00°	00000000		
H - 30L	25	300		.680	-30.00°		-	
H - 10L	50	300		.400	-10.00°	0.00	70 DESCRIPTION	
H - 10R	50	300		.800	10.00°			ê
H -30R	25	300		.000	30.00°			6
H - 45R	15	300		.170	45.00°			8
5D - 45R	15	600	7	.090	45.00°			G .
5D - 30R	25	600		.960	30.00°	-5.00		
5D - 10R	50	600		.000	10.00°			
5D - V	80	600		.900	0.00°	\$4000000000000000000000000000000000000		
5D - 10L	50	600		.200	-10.00°			i.
5D - 30L	25	600		.090	-30.00°	-5.00		
5D - 45L	15	600	100000	.150	-45.00°	-5.00	E. C.	
Maximum above	(50)	300	150	.500	0.0	0.0	0° cd	
H-H plane								
Maximum	1578	600	149	.622	-0.50°	0.00	O° cd	
between H-H								
E	1					1	1	1

0

Maximum below -

5 degree

8000

99.900

0.00°

-5.00°

cd





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Reversing Lamp - sample 2 (S122438)

ISOQA

PHOTOMETRIC RESULTS

Program:	00 (2005.05.13) ECE R 23 Reversing Lamp LED				
Intensity distribut	ion for independent (two lam	nps)			
Name:	120680 DF-TRL010 S122	438 ECE R23 AR Reve	ersing Lamp		
Number:	L120862	473			
Test distance:	3.176 m	Measno.:			
Lamp type:	LED	7.6			
Number:	LED				
Flux:	0.000 lm	Operator:	Arthur Chang		
Voltage:	13.499 V	Date:	8/9/2012 10:09:27 AM		
Current:	0.204 A	Set value:	Const. voltage		
X-offset:	0.00°	Y-offset:	0.00°		
Comment:	a switch	3.00 - 2.000 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 -			

ECE R 23 Reversing Lamp LED

					/		
Function	Min	Max	Value	H	V	Unit	N.O.K
H - V(1min)	80	300	151.900	0.00°	0.00°	cd	1970-1971-Weille
H - V(30min)	80	300	151(100	0.00°	0.00°	cd	
10U - 10L	10	300	63.470	-10.00°	10.00°	cd	
10U - V	15	300	59.800	0.00°	10.00°	cd	
10U - 10R	10	300	62.950	10.00°	10.00°	cd	
5U - 45R	15	300	31.300	45.00°	10.00°	cd	
5U - 10R	20	300	94.800	10.00°	5.00°	cd	
5U - V	25	300	99.200	0.00°	5.00°	cd	
5U - 10L	20	300	99.700	-10.00°	5.00°	cd	
5U - 45L	15	300	35.630	-45.00°	5.00°	cd	
H - 45L	15	300	40.050	-45.00°	0.00°	cd	
H - 30L	25	300	78.800	-30.00°	0.00°	cd	
H - 10L	50	300	138.700	-10.00°	0.00°	cd	
H - 10R	50	300	143.900	10.00°	0.00°	cd	
H - 30R	25	300	82.200	30.00°	0.00°	cd	
H - 45R	. 15	300	39.850	45.00°	0.00°	cd	
5D - 45R	15	600	38.950	45.00°	-5.00°	cd	
5D - 30R	25	600	82.000	30.00°	-5.00°	cd	
5D - 10R	50	600	90.100	10.00°	-5.00°	cd	
5D - V	80	600	95.500	0.00°	-5.00°	cd	
5D - 10L	50	600	81.900	-10.00°	-5.00°	cd	
5D - 30L	25	600	74.590	-30.00°	-5.00°	cd	
5D - 45L	15	600	35.850	-45.00°	-5.00°	cd	
Maximum above	7-3	300	151.100	0.00°	0.00°	cd	
H-H plane				+0400000000000000000000000000000000000		20002002	
Maximum	7 <u>2</u> 9	600	149.806	0.00°	0.00°	cd	
between H-H							
and -5							
Maximum below -	0	8000	95.500	0.00°	-5.00°	cd	
5 degree	8550			POWERSWEED!	17924000558	12000000	