



Index du dossier de réception d'une homologation par type en application d'un Règlement  
*Index to the information package of a type approval with regard to a Regulation*

Dernière Série d'amendements applicable <i>Last applicable Series of amendments</i>	N° de la réception de base et mise à jour <i>Base approval and update No</i>	Extension N° <i>Extension No</i>	Révision N° <i>Revision No</i>	Date d'émission <i>Issue date</i>	Fiche de renseignements <i>Information document</i>	
					Référence <i>Reference</i>	Nombre de pages <i>Number of pages</i>
65-00	00	-	-	08.10.2012	JULUEN B14 TA1 / 515 / 00	5

Vu pour être annexé à la fiche de réception,  
*Approved and to be attached to the approval certificate,*  
L'Attaché,  
*The Attache,*

ir. A. DESCAMPS

N° d'homologation mis à jour : <i>Updated Approval No</i>	E6-65R-000036	BEVASYS : 201207357		
Mise à jour n° : <i>Update No</i>	00	Date d'émission : <i>Issue date</i>	08.10.2012	P 1



**COMMUNICATION CONCERNANT L'HOMOLOGATION D'UN TYPE DE FEUX-SPÉCIAL D'AVERTISSEMENT**  
*COMMUNICATION CONCERNING THE APPROVAL GRANTED OF A TYPE OF SPECIAL WARNING LAMP*  
**POUR AUTOMOBILES, EN APPLICATION DU RÈGLEMENT No 65-00**  
*FOR MOTOR VEHICLES, PURSUANT TO REGULATION No. 65-00*

**N° d'homologation :** E6-65R-000036  
*Approval No.*

**Marque d'homologation :**  
*Approval mark*



TA1  
000036

1. Feu spécial d'avertissement / ~~tournant~~ / à éclat stationnaire / ~~a éclat directionnel rampe complète~~ / de couleur bleue / de couleur jaune-auto / rouge<sup>1</sup>  
*1. Special warning lamp / ~~rotating~~ / stationary flashing lamp / ~~directional flashing lamp~~ / complete bar / blue / amber / red<sup>1</sup>*
2. Le feu spécial d'avertissement a un / ~~deux~~ niveaux d'intensité<sup>1</sup>  
*2. Special warning lamp has one/ ~~two~~ levels of intensity<sup>1</sup>*  
Le feu spécial d'avertissement est composé de ... unités distinctes...  
*Special warning lamp consists of ..... separate units.*
3. Pour les feux spéciaux d'avertissement ayant deux niveaux d'intensité système employé pour obtenir une intensité renforcée de jour : -  
*3. For special warning lamps having two levels of intensity, indicate the system used to obtain increased intensity at daytime :*
4. Source lumineuse utilisée,  
*4. Used light source,*
  - ~~Catégorie de lampe à incandescence~~ ou ;  
*category of filament lamp* or ;
  - ~~Source lumineuse à décharge~~ ou ;  
*gas discharge light source* or ;
  - Source lumineuse à DEL oui / ~~non~~<sup>1</sup> ou ;  
*LED* yes / ~~no~~<sup>1</sup> or ;

10LEDs / 1 light source  
Module d'éclairage : oui / non<sup>1</sup>  
Light source module: yes / no<sup>1</sup>  
Code d'identification spécifique du module d'éclairage :-  
*Light source module specific identification code:*
5. Tension nominale de feu spécial d'avertissement : 12V 37W / 24V 37W  
*5. Rated voltage of special warning lamp :*
6. Marque ou désignation commerciale : AXIXTECH ; AEB BELGIUM  
*6. Trade name or mark :*

<sup>1</sup> Biffer les mentions qui ne conviennent pas - *Strike out what does not apply*

7. Nom et adresse du fabricant:  
7. *Manufacturer's name and adress :*
- JULUEN ENTERPRISE CO., LTD.  
8F-1, No. 502, Da An Rd. Shulin District  
Xinbei City, Taiwan
8. Le cas échéant, nom et adresse du représentant du fabricant : -  
8. *If applicable, name and address of manufacturer's representative : .*
9. Présenté à l'homologation le: 11.09.2012 ~ 17.09.2012  
9. *Submitted for approval on :*
10. Service technique chargé des essais d'homologation:  
10. *Technical service responsible for approval tests :*
- AIB VINCOTTE INTERNATIONAL  
Jan Olieslagerslaan 35  
1800 VILVOORDE
11. Date du procès-verbal délivré par ce service : 08.10.2012  
11. *Date of report issued by that service :*
12. Numéro du procès –verbal délivré par ce service : H1260347978/194  
12. *Number of report issued by that service :*
13. L'homologation est accordée / ~~étendue~~ <sup>1</sup>  
13. *Approval granted / ~~extended~~ <sup>1</sup>*
14. Motif (s) de l'extension (le cas échéant) : -  
14. *Reason(s) of extension (if applicable) :*

15. Lieu : Bruxelles  
15. *Place*
16. Date : 08.10.2012  
16. *Date*
17. Signature :  
17. *Signature*

AU NOM DU MINISTRE :  
*ON BEHALF OF THE MINISTER*  
Pour le Directeur Général,  
*For the Director General*  
L'Attaché,  
*The Attache,*



ir. A. DESCAMPS

18. On trouvera en annexe à la présente communication, la liste des pièces constituant le dossier d'homologation déposé auprès du Service administratif qui a accordé l'homologation; ces pièces peuvent être obtenues sur demande
18. *The list of documents filed with the Administrative Service which has granted approval and available on request is annexed to this communication.*



**AIB-VINÇOTTE International n.v.**

Head office: Diamant Building – A. Reyerslaan 80 – B-1030 Brussels

Company number : BE 0462.513.222 – HRB : 621315 – Internet : [www.vincotte.com](http://www.vincotte.com)

Safety, quality and environmental services

ISO/IEC 17020 Accredited inspection body - Accreditation certificate BELAC No. 016-INSP

**AUTOMOTIVE CERTIFICATION**

Business Class Kantorenpark – Jan Olieslagerslaan 35 – B-1800 Vilvoorde

Telephone : +32 (0)2/674.58.85 – Fax : +32 (0)2/674.59.62

E-mail: [homologation@vincotte.be](mailto:homologation@vincotte.be)

**1. SUBJECT : SPECIAL WARNING LAMP**

R65-00

2. REF. : Report number : **H1260347978/194** No. of pages : 1 of 12 No. of annexes : -  
Bevasys : 201207357 Approval No. : (0036 00) Update : 00

**3. GENERALITIES :**

Make of Device : AXIXTECH ; AEB BELGIUM

Commercial Type : -

Manufacturer's Type : B14 TA1 ; 515

Name and address of the manufacturer :  
JULUEN ENTERPRISE CO., LTD.  
8F-1, No. 502, Da An Rd. Shulin District  
Xinbei City, Taiwan

4. TESTS : Date and place : 2012.09.11 to 2012.09.17  
SUN-JET VISIBLE LIGHT LABORATORY  
Applied document(s) : JULUEN B14 TA1 / 515 / 00  
AVI Inspector : LU WAN-CHING  
Persons witnessing the tests : LU WAN-CHING  
Location of E-mark : On the lamp

**5. CONCLUSIONS :**

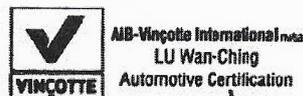
The tests were carried out according to the following specifications :

- UNECE Regulation No. 65 incorporating supplement 7 to the original version.

The models presented comply with the requirements to be applied.

Date : 2012.10.08

Signature :



2BH/LWC-DRO

R6500AB

**DESCRIPTION OF THE TESTED HEADLAMP**

Special warning lamp type	:	<del>rotating</del> /stationary flashing lamp/ <del>directional flashing lamp/ complete bar</del>
Color	:	<del>blue</del> /amber/ <del>red</del>
Nr of separate units	:	-
Light source	:	LED
Number of light source(s)	:	10LEDs / 1 light source
Voltage and wattage	:	12V 37W / 24V 37W
Light source module	:	Yes / No
Light source module specific identification code	:	-

**GENERAL SPECIFICATIONS**

Characteristics concerned and prescriptions to apply	References	Conformity	Not applied
The special warning lamps must be so designed and constructed that in normal conditions of use, and notwithstanding the vibrations to which they may be subjected in such use, their satisfactory operation remains assured and they retain the characteristics prescribed by this Regulation.	5.1.	X	
The special warning lamps must be so designed and constructed that the relevant requirements with regard to voltage higher than 50 V are fulfilled.			
The special warning lamp shall be so designed that after it has been mounted correctly on the vehicle, no maladjustment is possible.	5.2.	X	
The special warning lamp shall be powered directly from the voltage supply network of the vehicle by direct connection or usual connectors (e.g. cigarette lighter plug).	5.2.1.	X	
When a non-replaceable light source is used it shall be permanently fixed to the special warning lamp.	5.3.	X	
Light source module	5.4.		X
The design of the light source module(s) shall be such that even in darkness the light source module(s) can be fitted in no other position, but the correct one.	5.4.1.		
The light source module(s) shall be tamperproof.	5.4.2.		
In the case of a system that uses a special power supply, or a dedicated power supply, or light source control gear shall be part of special warning lamp.	5.5.		X
The frequency $f$ , the "on" time $t_H$ and the "off" time $t_D$ shall correspond to the values indicated in the table in Annex 5 to this Regulation. They shall be measured at an ambient temperature of $+23^\circ\text{C} \pm 5^\circ\text{C}$ and with voltages at the terminals of the device which are between 90 per cent and 115 per cent of the rated voltage. Moreover, starting and correct functioning of the special warning lamp shall remain assured at temperatures between $-20^\circ\text{C}$ and $+50^\circ\text{C}$ or if the special warning lamp is exposed to heavy rain, in accordance with the procedure described in Annex 4 to this Regulation. Under those conditions, one minute after a voltage equal to 90 per cent of the rated voltage has been applied, the frequency shall remain between 2 and 4 Hz.	5.6.	X	



Characteristics concerned and prescriptions to apply	References	Conformity	Not applicated
A rotating or flashing special warning lamp device of Category T may consist of more than one optical system. In this case the requirements of Annex 5 § 8 must be met. The lamp manufacturer must supply mounting information to ensure that the various units are correctly mounted on a vehicle.	5.7.		X

#### PHOTOMETRIC SPECIFICATIONS

Characteristics concerned and prescriptions to apply	References	Conformity	Not applicated
The special warning lamps shall comply with the conditions prescribed in Annex 5 to this Regulation.	6.	X	

#### CHECKING THE COLOUR OF THE SPECIAL WARNING LAMP

Characteristics concerned and prescriptions to apply	References	Conformity	Not applicated
<p>The colour shall comply with the colorimetric boundaries prescribed in Annex 3 to this Regulation.</p> <p>The colorimetric characteristics of the light emitted, expressed in CIE chromaticity co-ordinates, shall be evaluated using the light source as designed, working at the voltage as specified in § 4.2. in Annex 5 of this Regulation.</p> <p>In case of a special warning lamp employing a Xenon flash tube, as an alternative the chromaticity co-ordinates may be deduced from the spectral distribution of the transmission of the cover and the transmission or reflection of any other optical effective elements which could impair the colour of the special warning lamp. The calculation then shall be based on a luminous source with a relative spectral distribution as listed in Annex 6.</p>		X	

**TRICHROMATIC CO-ORDINATES FOR THE LIGHT EMITTED THROUGH THE AMBER OR BLUE FILTERS CONSTITUTING THE COVERS OF SPECIAL WARNING LAMPS (ANNEX 3)**

Characteristics concerned and prescriptions to apply	References	Conformity	Not applicated
<p>Under the conditions of § 7 of this Regulation, the trichromatic co-ordinates of light emitted through the filters used for special warning lamps shall lie within the following boundaries:</p> <p>1. Amber <sup>1</sup></p> <p>limit towards green : <math>y \leq x - 0.120</math></p> <p>limit towards red : <math>y \geq 0.390</math></p> <p>limit towards white : <math>y \geq 0.790 - 0.670 x</math></p> <p>2. Blue</p> <p>limit towards green : <math>y = 0.065 + 0.805 x</math></p> <p>limit towards white : <math>y = 0.400 - x</math></p> <p>limit towards purple : <math>y = 1.67x - 0.222</math></p> <p>3. Red</p> <p>limit towards purple : <math>y \geq 0.980 - x</math></p> <p>limit towards yellow : <math>y \leq 0.335</math></p>		<p style="text-align: center;">X</p>	<p style="text-align: center;">X</p> <p style="text-align: center;">X</p>

<sup>1</sup> Corresponds to a specific part of the "yellow" zone of the triangle of CIE colours.



**PROCEDURE FOR THE RAIN TEST (ANNEX 4)**

Characteristics concerned and prescriptions to apply	References	Conformity	Not applicated
<p>A sample of the special warning lamp, fitted in its normal operating position, with all the drainage apertures open if they exist, shall be subjected to a precipitation of 2.5 mm of water per minute, the water being directed at an angle of 45° and from a nozzle producing a full conical jet.</p> <p>During the test, the device shall turn on its vertical axis at a rate of 4 turns per minute.</p> <p>The test shall last for 12 hours continuously after which the water jet shall be stopped.</p> <p>One hour later, the sample shall be examined and shall be regarded as having passed the test if the accumulated volume of water does not exceed 2 cm<sup>3</sup>.</p>		X	

**PHOTOMETRIC SPECIFICATIONS (ANNEX 5)**

Characteristics concerned and prescriptions to apply	References	Conformity	Not applicated
<p>Measurements of the photometric characteristics shall be taken at a distance of at least 25 m.</p> <p>The angular diameter of the photoelectric receiver as seen from the special warning lamp shall be 10 minutes or arc maximum.</p> <p>The response time of the photometric system shall be adequate to the rising time of the signal to be measured.</p> <p>For special warning lamps having one level of intensity (class 1), the "by night" level shall apply.</p> <p>For special warning lamps having two levels of intensity (class 2), measurements shall be carried out for each of the two levels.</p> <p>The effective luminous intensities in various directions shall be as specified in the table below.</p>	<p>1.</p> <p>2.</p>	<p>X</p> <p>X</p>	

Characteristics concerned and prescriptions to apply	References	Conformity	Not applied
<p>If a filament lamp is used that shall be a standard filament lamp as provided for in Regulation No. 37 corresponding to a lamp of the category specified for the special warning lamp.</p>	3.		X
<p>Light source conditions for test:</p>	4.		
<p>In the case of replaceable light sources a standard lamp shall be used.</p>	4.1.		X
<p>All measurements on lamps equipped with replaceable or non-replaceable light sources (filament lamps, gas discharge light sources and other) shall be made at 6.75 V, 13.5 V or 28.0 V, respectively.</p>	4.2.	X	
<p>In the case of a system that uses a special power supply, or a dedicated power supply, or light source control gear, the voltage declared by the manufacturer shall be applied to the input terminals of that power supply. Unless otherwise specified 6.75 V, 13.5 V or 28 V, as applicable shall be used.</p>			
<p>In the case of filament lamps it is allowed to make the measurements with a standard filament lamp at reference flux conditions nearly at 12 V and recalculate the measured values by a factor, which is determined with this standard filament lamp at 13.5 Volt, if applicable.</p>	4.3.		X
<p>For any lamp equipped with non-filament light source(s), the luminous intensities measured after one minute and after 30 minutes of operation shall comply with the minimum and maximum requirements. The luminous intensity distribution after one minute of operation can be calculated by applying the ratio achieved at HV between one minute and 30 minutes of operation.</p>	5.	X	
<p>If the emitted light of a special warning lamp consists of groups of several flashes, the time distance <math>\Delta t</math> between the immediately following flashes must be very short.</p>	6.	X	
<p>If the peak to peak distance <math>\Delta t</math> is less or equal to 0.04 s, then the pulses in between are evaluated as one flash. If this distance <math>\Delta t</math> is longer only the flash with the highest effective intensity is valid. Moreover, the period is limited depending on the ratio between the effective intensities of the flashes within a group (<math>I_H</math> = max. effective intensity of the highest peak, <math>I_L</math> = max. effective intensity of the lowest peak) as follows:</p>			
<p>in case</p>			
$\frac{I_H}{I_L} > 10 \text{ then } \Delta_t (s) < \frac{1}{3f}$			
<p>in case</p>			
$1 < \frac{I_H}{I_L} < 10 \text{ then } \Delta_t (s) < \frac{1}{f(5.50 - 0.25 \frac{I_H}{I_L})}$			



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65-00	00	-	-	08.10.2012	JULUEN B14 TA1 / 515 / 00	5

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L'Attaché,  
*The Attache,*

ir. A. DESCAMPS

N° d'homologation mis à jour : <i>Updated Approval No</i>	E6-65R-000036	BEVASYS : 201207357		
Mise à jour n° : <i>Update No</i>	00	Date d'émission : <i>Issue date</i>	08.10.2012	P 1



COMMUNICATION CONCERNANT L'HOMOLOGATION D'UN TYPE DE FEUX-SPÉCIAL D'AVERTISSEMENT  
COMMUNICATION CONCERNING THE APPROVAL GRANTED OF A TYPE OF SPECIAL WARNING LAMP  
POUR AUTOMOBILES, EN APPLICATION DU RÈGLEMENT No 65-00  
FOR MOTOR VEHICLES, PURSUANT TO REGULATION No. 65-00

N° d'homologation : E6-65R-000036  
Approval No.

Marque d'homologation :  
Approval mark



TA1  
000036

1. Feu spécial d'avertissement / ~~tournant~~ / à éclat stationnaire / ~~a éclat directionnel rampe complète~~ / ~~de couleur bleue / de couleur jaune-auto / rouge~~<sup>1</sup>  
1. Special warning lamp / ~~rotating~~ / stationary flashing lamp / ~~directional flashing lamp / complete bar~~ / ~~blue / amber / red~~<sup>1</sup>
2. Le feu spécial d'avertissement a un / ~~deux~~ niveaux d'intensité<sup>1</sup>  
2. Special warning lamp has one/ ~~two~~ levels of intensity<sup>1</sup>  
Le feu spécial d'avertissement est composé de ...unités distinctes...  
~~Special warning lamp consists of ..... separate units.~~
3. Pour les feux spéciaux d'avertissement ayant deux niveaux d'intensité système employé pour obtenir une intensité renforcée de jour : -  
3. For special warning lamps having two levels of intensity, indicate the system used to obtain increased intensity at daytime :
4. Source lumineuse utilisée,  
4. Used light source,  
- ~~Catégorie de lampe à incandescence~~ ou ;  
~~category of filament lamp~~ or ;  
- ~~Source lumineuse à décharge...~~ ou ;  
~~gas discharge light source~~ or ;  
- Source lumineuse à DEL oui / ~~non~~<sup>1</sup> ou ;  
LED yes / ~~no~~<sup>1</sup> or ;  
10LEDs / 1 light source  
Module d'éclairage : oui / non<sup>1</sup>  
Light source module: yes / no<sup>1</sup>  
Code d'identification spécifique du module d'éclairage :-  
Light source module specific identification code:
5. Tension nominale de feu spécial d'avertissement : 12V 37W / 24V 37W  
5. Rated voltage of special warning lamp :
6. Marque ou désignation commerciale : AXIXTECH ; AEB BELGIUM  
6. Trade name or mark :

<sup>1</sup> Biffer les mentions qui ne conviennent pas - Strike out what does not apply

7. Nom et adresse du fabricant:  
7. *Manufacturer's name and address :*
- JULUEN ENTERPRISE CO., LTD.  
8F-1, No. 502, Da An Rd. Shulin District  
Xinbei City, Taiwan
8. Le cas échéant, nom et adresse du représentant du fabricant : -  
8. *If applicable, name and address of manufacturer's representative :*
9. Présenté à l'homologation le: 11.09.2012 ~ 17.09.2012  
9. *Submitted for approval on :*
10. Service technique chargé des essais d'homologation:  
10. *Technical service responsible for approval tests :*
- AIB VINCOTTE INTERNATIONAL  
Jan Olieslagerslaan 35  
1800 VILVOORDE
11. Date du procès-verbal délivré par ce service : 08.10.2012  
11. *Date of report issued by that service :*
12. Numéro du procès-verbal délivré par ce service : H1260347978/194  
12. *Number of report issued by that service :*
13. L'homologation est accordée / ~~étendue~~<sup>1</sup>  
13. *Approval granted / ~~extended~~<sup>1</sup>*
14. Motif(s) de l'extension (le cas échéant) : -  
14. *Reason(s) of extension (if applicable) :*

15. Lieu : Bruxelles  
15. *Place*
16. Date : 08.10.2012  
16. *Date*
17. Signature :  
17. *Signature*

AU NOM DU MINISTRE :  
*ON BEHALF OF THE MINISTER*  
Pour le Directeur Général,  
*For the Director General*  
L'Attaché,  
*The Attache,*



ir. A. DESCAMPS

18. On trouvera en annexe à la présente communication, la liste des pièces constituant le dossier d'homologation déposé auprès du Service administratif qui a accordé l'homologation; ces pièces peuvent être obtenues sur demande
18. *The list of documents filed with the Administrative Service which has granted approval and available on request is annexed to this communication.*

**AIB-VINÇOTTE International n.v.**

Head office: Diamant Building – A. Reyerslaan 80 – B-1030 Brussels

Company number : BE 0462.513.222 – HRB : 621315 – Internet : [www.vincotte.com](http://www.vincotte.com) Safety, quality and environmental services

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**AUTOMOTIVE CERTIFICATION**

Business Class Kantorenpark – Jan Olieslagerslaan 35 – B-1800 Vilvoorde

Telephone : +32 (0)2/674.58.85 – Fax : +32 (0)2/674.59.62

E-mail: [homologation@vincotte.be](mailto:homologation@vincotte.be)**1. SUBJECT : SPECIAL WARNING LAMP**

R65-00

2. REF. : Report number : **H1260347978/194** No. of pages : 1 of 12 No. of annexes : -  
Bevasys : 201207357 Approval No. : (0036 00) Update : 00

**3. GENERALITIES :**

Make of Device : AXIXTECH ; AEB BELGIUM

Commercial Type : -

Manufacturer's Type : B14 TA1 ; 515

Name and address of the manufacturer :  
JULUEN ENTERPRISE CO., LTD.  
8F-1, No. 502, Da An Rd. Shulin District  
Xinbei City, Taiwan

4. TESTS : Date and place : 2012.09.11 to 2012.09.17  
SUN-JET VISIBLE LIGHT LABORATORY  
Applied document(s) : JULUEN B14 TA1 / 515 / 00  
AVI Inspector : LU WAN-CHING  
Persons witnessing the tests : LU WAN-CHING  
Location of E-mark : On the lamp

**5. CONCLUSIONS :**

The tests were carried out according to the following specifications :

- UNECE Regulation No. 65 incorporating supplement 7 to the original version.

The models presented comply with the requirements to be applied.

Date : 2012.10.08

Signature :



2BH/LWC-DRO

R6500AB

**DESCRIPTION OF THE TESTED HEADLAMP**

Special warning lamp type : ~~rotating~~/stationary flashing lamp/~~directional flashing lamp/ complete bar~~  
 Color : ~~blue~~/amber/red  
 Nr of separate units : -  
 Light source : LED  
 Number of light source(s) : 10LEDs / 1 light source  
 Voltage and wattage : 12V 37W / 24V 37W  
 Light source module : Yes / No  
 Light source module specific identification code : -

**GENERAL SPECIFICATIONS**

Characteristics concerned and prescriptions to apply	References	Conformity	Not applied
The special warning lamps must be so designed and constructed that in normal conditions of use, and notwithstanding the vibrations to which they may be subjected in such use, their satisfactory operation remains assured and they retain the characteristics prescribed by this Regulation.	5.1.	X	
The special warning lamps must be so designed and constructed that the relevant requirements with regard to voltage higher than 50 V are fulfilled.			
The special warning lamp shall be so designed that after it has been mounted correctly on the vehicle, no maladjustment is possible.	5.2.	X	
The special warning lamp shall be powered directly from the voltage supply network of the vehicle by direct connection or usual connectors (e.g. cigarette lighter plug).	5.2.1.	X	
When a non-replaceable light source is used it shall be permanently fixed to the special warning lamp.	5.3.	X	
Light source module	5.4.		X
The design of the light source module(s) shall be such that even in darkness the light source module(s) can be fitted in no other position, but the correct one.	5.4.1.		
The light source module(s) shall be tamperproof.	5.4.2.		
In the case of a system that uses a special power supply, or a dedicated power supply, or light source control gear shall be part of special warning lamp.	5.5.		X
The frequency f, the "on" time $t_H$ and the "off" time $t_D$ shall correspond to the values indicated in the table in Annex 5 to this Regulation. They shall be measured at an ambient temperature of $+23^{\circ}C \pm 5^{\circ}C$ and with voltages at the terminals of the device which are between 90 per cent and 115 per cent of the rated voltage. Moreover, starting and correct functioning of the special warning lamp shall remain assured at temperatures between $-20^{\circ}C$ and $+50^{\circ}C$ or if the special warning lamp is exposed to heavy rain, in accordance with the procedure described in Annex 4 to this Regulation. Under those conditions, one minute after a voltage equal to 90 per cent of the rated voltage has been applied, the frequency shall remain between 2 and 4 Hz.	5.6.	X	



Characteristics concerned and prescriptions to apply	References	Conformity	Not applied
A rotating or flashing special warning lamp device of Category T may consist of more than one optical system. In this case the requirements of Annex 5 § 8 must be met. The lamp manufacturer must supply mounting information to ensure that the various units are correctly mounted on a vehicle.	5.7.		X

#### PHOTOMETRIC SPECIFICATIONS

Characteristics concerned and prescriptions to apply	References	Conformity	Not applied
The special warning lamps shall comply with the conditions prescribed in Annex 5 to this Regulation.	6.	X	

#### CHECKING THE COLOUR OF THE SPECIAL WARNING LAMP

Characteristics concerned and prescriptions to apply	References	Conformity	Not applied
<p>The colour shall comply with the colorimetric boundaries prescribed in Annex 3 to this Regulation.</p> <p>The colorimetric characteristics of the light emitted, expressed in CIE chromaticity co-ordinates, shall be evaluated using the light source as designed, working at the voltage as specified in § 4.2. in Annex 5 of this Regulation.</p> <p>In case of a special warning lamp employing a Xenon flash tube, as an alternative the chromaticity co-ordinates may be deduced from the spectral distribution of the transmission of the cover and the transmission or reflection of any other optical effective elements which could impair the colour of the special warning lamp. The calculation then shall be based on a luminous source with a relative spectral distribution as listed in Annex 6.</p>		X	

**TRICHROMATIC CO-ORDINATES FOR THE LIGHT EMITTED THROUGH THE AMBER OR BLUE FILTERS CONSTITUTING THE COVERS OF SPECIAL WARNING LAMPS (ANNEX 3)**

Characteristics concerned and prescriptions to apply	References	Conformity	Not applied
<p>Under the conditions of § 7 of this Regulation, the trichromatic co-ordinates of light emitted through the filters used for special warning lamps shall lie within the following boundaries:</p> <p>1. Amber <sup>1</sup></p> <p>    limit towards green : <math>y \leq x - 0.120</math></p> <p>    limit towards red : <math>y \geq 0.390</math></p> <p>    limit towards white : <math>y \geq 0.790 - 0.670 x</math></p> <p>2. Blue</p> <p>    limit towards green : <math>y = 0.065 + 0.805 x</math></p> <p>    limit towards white : <math>y = 0.400 - x</math></p> <p>    limit towards purple : <math>y = 1.67x - 0.222</math></p> <p>3. Red</p> <p>    limit towards purple : <math>y \geq 0.980 - x</math></p> <p>    limit towards yellow : <math>y \leq 0.335</math></p>		X	X

<sup>1</sup> Corresponds to a specific part of the "yellow" zone of the triangle of CIE colours.

**PROCEDURE FOR THE RAIN TEST (ANNEX 4)**

Characteristics concerned and prescriptions to apply	References	Conformity	Not applied
<p>A sample of the special warning lamp, fitted in its normal operating position, with all the drainage apertures open if they exist, shall be subjected to a precipitation of 2.5 mm of water per minute, the water being directed at an angle of 45° and from a nozzle producing a full conical jet.</p> <p>During the test, the device shall turn on its vertical axis at a rate of 4 turns per minute.</p> <p>The test shall last for 12 hours continuously after which the water jet shall be stopped.</p> <p>One hour later, the sample shall be examined and shall be regarded as having passed the test if the accumulated volume of water does not exceed 2 cm<sup>3</sup>.</p>		X	

**PHOTOMETRIC SPECIFICATIONS (ANNEX 5)**

Characteristics concerned and prescriptions to apply	References	Conformity	Not applied
<p>Measurements of the photometric characteristics shall be taken at a distance of at least 25 m.</p> <p>The angular diameter of the photoelectric receiver as seen from the special warning lamp shall be 10 minutes or arc maximum.</p> <p>The response time of the photometric system shall be adequate to the rising time of the signal to be measured.</p>	1.	X	
<p>For special warning lamps having one level of intensity (class 1), the "by night" level shall apply.</p> <p>For special warning lamps having two levels of intensity (class 2), measurements shall be carried out for each of the two levels.</p> <p>The effective luminous intensities in various directions shall be as specified in the table below.</p>	2.	X	

Characteristics concerned and prescriptions to apply	References	Conformity	Not applied
<p>If a filament lamp is used that shall be a standard filament lamp as provided for in Regulation No. 37 corresponding to a lamp of the category specified for the special warning lamp.</p>	3.		X
<p>Light source conditions for test:</p>	4.		
<p>In the case of replaceable light sources a standard lamp shall be used.</p>	4.1.		X
<p>All measurements on lamps equipped with replaceable or non-replaceable light sources (filament lamps, gas discharge light sources and other) shall be made at 6.75 V, 13.5 V or 28.0 V, respectively.</p>	4.2.	X	
<p>In the case of a system that uses a special power supply, or a dedicated power supply, or light source control gear, the voltage declared by the manufacturer shall be applied to the input terminals of that power supply. Unless otherwise specified 6.75 V, 13.5 V or 28 V, as applicable shall be used.</p>			
<p>In the case of filament lamps it is allowed to make the measurements with a standard filament lamp at reference flux conditions nearly at 12 V and recalculate the measured values by a factor, which is determined with this standard filament lamp at 13.5 Volt, if applicable.</p>	4.3.		X
<p>For any lamp equipped with non-filament light source(s), the luminous intensities measured after one minute and after 30 minutes of operation shall comply with the minimum and maximum requirements. The luminous intensity distribution after one minute of operation can be calculated by applying the ratio achieved at HV between one minute and 30 minutes of operation.</p>	5.	X	
<p>If the emitted light of a special warning lamp consists of groups of several flashes, the time distance <math>\Delta t</math> between the immediately following flashes must be very short.</p>	6.	X	
<p>If the peak to peak distance <math>\Delta t</math> is less or equal to 0.04 s, then the pulses in between are evaluated as one flash. If this distance <math>\Delta t</math> is longer only the flash with the highest effective intensity is valid. Moreover, the period is limited depending on the ratio between the effective intensities of the flashes within a group (<math>I_H</math> = max. effective intensity of the highest peak, <math>I_L</math> = max. effective intensity of the lowest peak) as follows:</p>			
<p>in case</p> $\frac{I_H}{I_L} > 10 \text{ then } \Delta_t (s) < \frac{1}{3f}$			
<p>in case</p> $1 < \frac{I_H}{I_L} < 10 \text{ then } \Delta_t (s) < \frac{1}{f(5.50 - 0.25 \frac{I_H}{I_L})}$			

Characteristics concerned and prescriptions to apply	References	Conformity	Not applied
Frequency, time, and intensity of the emitted light	7.		
The frequency, the "ON" time and the "OFF" time shall be as specified in the table shown in §7.1	7.1	X	
The effective luminous intensities ( $J_e$ ) within the relevant vertical angles for a special warning lamp (Category T) shall be as specified in the table shown in §7.2.	7.2.	X	
In the case of a special warning lamp device which is comprised of more than one separate unit, the geometrical arrangement(s) as installed at the vehicle seems to be acceptable, if the partial light distribution of each single separate unit is overlapping with each adjacent partial light distribution inside a horizontal angular range of 360° and in a vertical angular range as specified for the relevant category in a geometrical position corresponding to a distance of 20 m, from the vehicle on a vertical plane that is perpendicular to the longitudinal axis of the vehicle and located midway between the lamp units on a side of the vehicle.	7.2.1.	X	
The effective luminous intensities in the reference axis for a directional flashing lamp (Category X) shall be as specified in the table shown in §7.3.	7.3.		X
Table of standard light distribution for special warning flash lamp (Category X)	7.3.1.		
Minimum horizontal angular range of category "narrow angle effect" is 30° left to 30° right and for category "wide angle effect" 90° directed outwards the vehicle and 30° to the inside.			
The direction $H = 0^\circ$ and $V = 0^\circ$ corresponds to the reference axis. (On the vehicle it is horizontal, parallel to the median longitudinal plane of the vehicle and oriented in the required direction of visibility). It passes through the centre of reference. The values shown in the table give, for the various directions of measurements, the minimum intensities as a percentage of the minimum required in the axis for each lamp (in the direction $H = 0^\circ$ and $V = 0^\circ$ ).	7.3.1.1.		
Within the field of light distribution of § 7.3.1. schematically shown as a grid, the light pattern should be substantially uniform, i.e. the light intensity in each direction of lowest minimum value being shown on the grid lines surrounding the questioned direction as a percentage.	7.3.1.2.		
In the case of a special warning lamp device of Category X which comprises of more than one separate unit, the geometrical arrangement(s) as installed on the vehicle, is(are) acceptable when the partial light distribution of each single separate unit is overlapping with each adjacent partial light distribution inside the horizontal and vertical angular range specified for the Category X.	7.3.2.		



Characteristics concerned and prescriptions to apply	References	Conformity	Not applied
<p>If two or more optical systems are integrated in one special warning lamp, this unit has to comply with the following requirements:</p> <p>Each optical system shall be in accordance with the requirements of this Annex within the horizontal angle which is not covered by one of the other optical systems. Furthermore, in each required direction at least one optical system shall be effective corresponding to the requirements of this Annex.</p> <p>If a special warning lamp contains two or more optical systems, all the optical systems shall work in phase. This applies only to each half of a complete "bar" which is designed to extend on the width of the vehicle.</p> <p>As long as the efficiency of the special warning lamp is to be secured all around the car a detection of the failure of a part of a special warning system shall exist on the car. If it is designed by the special warning lamp manufacturer this detection shall be checked during the approval procedure.</p>	<p>8.</p> <p>8.1.</p> <p>8.2.</p> <p>8.3.</p>		X

**FACILITIES AND EQUIPMENT**

The facilities and equipment used to carry out the inspections are in compliance with the requirements of the applied Regulatory Act(s).

Equipment Description	Model Number
SJTC-O-001 Goniophotometer	OPTRONIK SMS 10c
SJTC-O-016 Flash meter	Czibula & Grundmann GmbH Ph-St-B8-Th-Fast
SJTC-O-017 High-Speed Multi Channel Spectrophoto Meter	OTSUKA MCPD-9800(2480)
SJTC-O-011 Power Supply	OPTRONIK SNT10
SJTC-O-021 Oscilloscope	TEKTRONIX DPO3012
SJTC-M-005 Aging Oven Tester	GOLDEN TOP
SJTC-M-015 Temperature & Humidity Tester	GIANT FORCE
Rain Test	TESTING BY JULUEN ENTERPRISE CO., LTD.



**TEST RESULTS : For Special Warning Lamp on by Night Level**

Light sources : 10LEDs / 1 light source ; Rated voltage and wattage : 12V 37W / 24V 37W

Specification : Measure the effective luminous intensity  $J_e$ , locating minimum and maximum value along horizontal plane, 10 degree increments.

***Test Results of Photometric Measurement and Flash Characteristics Measurement***

Lamp Function	: Amber Special Warning Lamp	Test Voltage	: 13.5V / 28V
Category & Class	: TA1	Test Distance	: 25 m
Requirement	: ECE Reg. 65 Annex 5		
By Day / By Night	: By Night	"ON" time $t_H$	: 0.1925 s / 0.1943 s
Frequency (f)	: 2.06 Hz / 2.04 Hz	"OFF" time $t_D$	: 0.2929 s / 0.2936 s
Flash Mode	: Double Flash		

Point on Measuring Screen	Requirement(cd)		Measurement (cd)					
	Min	Max	Sample 1 (12V)			Sample 2 (24V)		
			1 Minute	30 Minutes	Remark	1 Minute	30 Minutes	Remark
H - 180R(L)	100	700	139.4	133.2		145.0	131.0	
H - 170R	100	700	142.4	136.0		141.9	128.1	
H - 160R	100	700	141.2	134.9		145.5	131.5	
H - 150R	100	700	137.7	131.5		139.4	125.9	
H - 140R	100	700	146.7	140.1		139.1	125.7	
H - 130R	100	700	146.4	139.9		138.8	125.4	
H - 120R	100	700	140.1	133.8		134.7	121.7	
H - 110R	100	700	143.3	136.9		136.0	122.9	
H - 100R	100	700	143.5	137.1		134.2	121.2	
H - 90R	100	700	142.6	136.2		133.0	120.1	
H - 80R	100	700	145.3	138.8		133.2	120.4	
H - 70R	100	700	144.7	138.2		128.6	116.2	
H - 60R	100	700	144.5	138.0		128.8	116.3	
H - 50R	100	700	148.9	142.2		125.9	113.7	Min. Je
H - 40R	100	700	149.3	142.6	Max. Je	129.5	116.9	
H - 30R	100	700	141.7	135.3		134.6	121.6	
H - 20R	100	700	142.2	135.9		133.8	120.9	
H - 10R	100	700	136.6	130.5	Min. Je	133.0	120.1	
H - V	100	700	140.7	134.3		141.0	127.4	
H - 10L	100	700	139.2	132.9		136.8	123.6	
H - 20L	100	700	142.6	136.2		136.5	123.3	
H - 30L	100	700	137.4	131.2		134.5	121.5	
H - 40L	100	700	143.0	136.6		133.7	120.7	
H - 50L	100	700	140.3	134.0		133.2	120.4	
H - 60L	100	700	141.6	135.2		139.1	125.7	
H - 70L	100	700	143.3	136.9		139.5	126.0	
H - 80L	100	700	144.3	137.8		140.1	126.5	
H - 90L	100	700	145.5	139.0		149.4	134.9	
H - 100L	100	700	147.8	141.1		148.3	134.0	
H - 110L	100	700	147.4	140.8		139.5	126.1	
H - 120L	100	700	142.8	136.4		144.8	130.8	
H - 130L	100	700	138.8	132.6		147.4	133.1	Max. Je
H - 140L	100	700	140.3	134.0		145.4	131.3	
H - 150L	100	700	131.1	125.2		141.2	127.6	
H - 160L	100	700	138.7	132.5		140.7	127.1	
H - 170L	100	700	139.6	133.4		137.7	124.4	
Test Results			<input checked="" type="checkbox"/> Passed			<input type="checkbox"/> Failed		



Index du dossier de réception d'une homologation par type en application d'un Règlement  
*Index to the information package of a type approval with regard to a Regulation*

Dernière Série d'amendements applicable <i>Last applicable Series of amendments</i>	N° de la réception de base et mise à jour <i>Base approval and update No</i>	Extension N° <i>Extension No</i>	Révision N° <i>Revision No</i>	Date d'émission <i>Issue date</i>	Fiche de renseignements <i>Information document</i>	
					Référence <i>Reference</i>	Nombre de pages <i>Number of pages</i>
65-00	00	-	-	08.10.2012	JULUEN B14 TA1 / 515 / 00	5

Vu pour être annexé à la fiche de réception,  
*Approved and to be attached to the approval certificate,*  
L'Attaché,  
*The Attache,*

ir. A. DESCAMPS

N° d'homologation mis à jour : <i>Updated Approval No</i>	E6-65R-000036	BEVASYS : 201207357		
Mise à jour n° : <i>Update No</i>	00	Date d'émission : <i>Issue date</i>	08.10.2012	P 1

**COMMUNICATION CONCERNANT L'HOMOLOGATION D'UN TYPE DE FEUX-SPÉCIAL D'AVERTISSEMENT**  
**COMMUNICATION CONCERNING THE APPROVAL GRANTED OF A TYPE OF SPECIAL WARNING LAMP**  
**POUR AUTOMOBILES, EN APPLICATION DU RÈGLEMENT No 65-00**  
**FOR MOTOR VEHICLES, PURSUANT TO REGULATION No. 65-00**

**N° d'homologation : E6-65R-000036**  
*Approval No.*

**Marque d'homologation :**  
*Approval mark*



TAI  
 000036

1. Feu spécial d'avertissement / ~~tournant~~ / à éclat stationnaire / ~~a éclat directionnel rampe complète~~ / ~~de couleur bleue~~ / de couleur jaune-auto / ~~rouge~~<sup>1</sup>
1. *Special warning lamp / ~~rotating~~ / stationary flashing lamp / ~~directional flashing lamp~~ / ~~complete bar~~ / blue / amber / red<sup>1</sup>*
2. Le feu spécial d'avertissement a un / ~~deux~~ niveaux d'intensité<sup>1</sup>
2. *Special warning lamp has one / ~~two~~ levels of intensity<sup>1</sup>*  
~~Le feu spécial d'avertissement est composé de ... unités distinctes...~~  
~~Special warning lamp consists of ..... separate units.~~
3. Pour les feux spéciaux d'avertissement ayant deux niveaux d'intensité système employé pour obtenir une intensité renforcée de jour : -
3. *For special warning lamps having two levels of intensity, indicate the system used to obtain increased intensity at daytime :*
4. Source lumineuse utilisée,
4. *Used light source,*
  - ~~Catégorie de lampe à incandescence~~ ou ;  
*category of filament lamp* or ;
  - ~~Source lumineuse à décharge...~~ ou ;  
*gas discharge light source* or ;
  - Source lumineuse à DEL oui / ~~non~~<sup>1</sup> ou ;  
*LED* yes / ~~no~~<sup>1</sup> or ;
  - 10LEDs / 1 light source
  - Module d'éclairage : oui / non<sup>1</sup>
  - Light source module: yes / no<sup>1</sup>
  - Code d'identification spécifique du module d'éclairage :-
  - Light source module specific identification code:*
5. Tension nominale de feu spécial d'avertissement : 12V 37W / 24V 37W
5. *Rated voltage of special warning lamp :*
6. Marque ou désignation commerciale : AXIXTECH ; AEB BELGIUM
6. *Trade name or mark :*

<sup>1</sup> Biffer les mentions qui ne conviennent pas - *Strike out what does not apply*

7. Nom et adresse du fabricant:  
7. *Manufacturer's name and adress :*
- JULUEN ENTERPRISE CO., LTD.  
8F-1, No. 502, Da An Rd. Shulin District  
Xinbei City, Taiwan
8. Le cas échéant, nom et adresse du représentant du fabricant : -  
8. *If applicable, name and address of manufacturer's representative : .*
9. Présenté à l'homologation le: 11.09.2012 ~ 17.09.2012  
9. *Submitted for approval on :*
10. Service technique chargé des essais d'homologation:  
10. *Technical service responsible for approval tests :*
- AIB VINCOTTE INTERNATIONAL  
Jan Olieslagerslaan 35  
1800 VILVOORDE
11. Date du procès-verbal délivré par ce service : 08.10.2012  
11. *Date of report issued by that service :*
12. Numéro du procès –verbal délivré par ce service : H1260347978/194  
12. *Number of report issued by that service :*
13. L'homologation est accordée / ~~étendue~~<sup>1</sup>  
13. *Approval granted / ~~extended~~<sup>1</sup>*
14. Motif (s) de l'extension (le cas échéant) : -  
14. *Reason(s) of extension (if applicable) :*

15. Lieu : Bruxelles  
15. *Place*
16. Date : 08.10.2012  
16. *Date*
17. Signature :  
17. *Signature*

AU NOM DU MINISTRE :  
*ON BEHALF OF THE MINISTER*  
Pour le Directeur Général,  
*For the Director General*  
L'Attaché,  
*The Attache,*



ir. A. DESCAMPS

18. On trouvera en annexe à la présente communication, la liste des pièces constituant le dossier d'homologation déposé auprès du Service administratif qui a accordé l'homologation; ces pièces peuvent être obtenues sur demande
18. *The list of documents filed with the Administrative Service which has granted approval and available on request is annexed to this communication.*



**AIB-VINÇOTTE International n.v.**

Head office: Diamant Building – A. Reyerslaan 80 – B-1030 Brussels

Company number : BE 0462.513.222 – HRB : 621315 – Internet : [www.vincotte.com](http://www.vincotte.com)

Safety, quality and environmental services

ISO/IEC 17020 Accredited inspection body - Accreditation certificate BELAC No. 016-INSP

**AUTOMOTIVE CERTIFICATION**

Business Class Kantorenpark – Jan Olieslagerslaan 35 – B-1800 Vilvoorde

Telephone : +32 (0)2/674.58.85 – Fax : +32 (0)2/674.59.62

E-mail: [homologation@vincotte.be](mailto:homologation@vincotte.be)

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**1. SUBJECT : SPECIAL WARNING LAMP**

R65-00

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2. **REF. :** Report number : **H1260347978/194** No. of pages : 1 of 12 No. of annexes : -  
Bevasys : 201207357 Approval No. : (0036 00) Update : 00

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**3. GENERALITIES :**

Make of Device : AXIXTECH ; AEB BELGIUM

Commercial Type : -

Manufacturer's Type : B14 TA1 ; 515

Name and address of the manufacturer :

JULUEN ENTERPRISE CO., LTD.

8F-1, No. 502, Da An Rd. Shulin District

Xinbei City, Taiwan

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4. **TESTS :** Date and place : 2012.09.11 to 2012.09.17  
SUN-JET VISIBLE LIGHT LABORATORY  
Applied document(s) : JULUEN B14 TA1 / 515 / 00  
AVI Inspector : LU WAN-CHING  
Persons witnessing the tests : LU WAN-CHING  
Location of E-mark : On the lamp

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**5. CONCLUSIONS :**

The tests were carried out according to the following specifications :

- UNECE Regulation No. 65 incorporating supplement 7 to the original version.

The models presented comply with the requirements to be applied.

Date : 2012.10.08

Signature :



2BH/LWC-DRO

R6500AB



**DESCRIPTION OF THE TESTED HEADLAMP**

Special warning lamp type : ~~rotating~~/stationary flashing lamp/~~directional flashing lamp/ complete bar~~  
 Color : ~~blue~~/amber/~~red~~  
 Nr of separate units : -  
 Light source : LED  
 Number of light source(s) : 10LEDs / 1 light source  
 Voltage and wattage : 12V 37W / 24V 37W  
 Light source module : Yes / No  
 Light source module specific identification code : -

**GENERAL SPECIFICATIONS**

Characteristics concerned and prescriptions to apply	References	Conformity	Not applied
The special warning lamps must be so designed and constructed that in normal conditions of use, and notwithstanding the vibrations to which they may be subjected in such use, their satisfactory operation remains assured and they retain the characteristics prescribed by this Regulation.	5.1.	X	
The special warning lamps must be so designed and constructed that the relevant requirements with regard to voltage higher than 50 V are fulfilled.			
The special warning lamp shall be so designed that after it has been mounted correctly on the vehicle, no maladjustment is possible.	5.2.	X	
The special warning lamp shall be powered directly from the voltage supply network of the vehicle by direct connection or usual connectors (e.g. cigarette lighter plug).	5.2.1.	X	
When a non-replaceable light source is used it shall be permanently fixed to the special warning lamp.	5.3.	X	
Light source module	5.4.		X
The design of the light source module(s) shall be such that even in darkness the light source module(s) can be fitted in no other position, but the correct one.	5.4.1.		
The light source module(s) shall be tamperproof.	5.4.2.		
In the case of a system that uses a special power supply, or a dedicated power supply, or light source control gear shall be part of special warning lamp.	5.5.		X
The frequency $f$ , the "on" time $t_H$ and the "off" time $t_D$ shall correspond to the values indicated in the table in Annex 5 to this Regulation. They shall be measured at an ambient temperature of $+ 23^\circ \text{C} \pm 5^\circ \text{C}$ and with voltages at the terminals of the device which are between 90 per cent and 115 per cent of the rated voltage. Moreover, starting and correct functioning of the special warning lamp shall remain assured at temperatures between $- 20^\circ \text{C}$ and $+ 50^\circ \text{C}$ or if the special warning lamp is exposed to heavy rain, in accordance with the procedure described in Annex 4 to this Regulation. Under those conditions, one minute after a voltage equal to 90 per cent of the rated voltage has been applied, the frequency shall remain between 2 and 4 Hz.	5.6.	X	

Characteristics concerned and prescriptions to apply	References	Conformity	Not applicated
A rotating or flashing special warning lamp device of Category T may consist of more than one optical system. In this case the requirements of Annex 5 § 8 must be met. The lamp manufacturer must supply mounting information to ensure that the various units are correctly mounted on a vehicle.	5.7.		X

### PHOTOMETRIC SPECIFICATIONS

Characteristics concerned and prescriptions to apply	References	Conformity	Not applicated
The special warning lamps shall comply with the conditions prescribed in Annex 5 to this Regulation.	6.	X	

### CHECKING THE COLOUR OF THE SPECIAL WARNING LAMP

Characteristics concerned and prescriptions to apply	References	Conformity	Not applicated
<p>The colour shall comply with the colorimetric boundaries prescribed in Annex 3 to this Regulation.</p> <p>The colorimetric characteristics of the light emitted, expressed in CIE chromaticity co-ordinates, shall be evaluated using the light source as designed, working at the voltage as specified in § 4.2. in Annex 5 of this Regulation.</p> <p>In case of a special warning lamp employing a Xenon flash tube, as an alternative the chromaticity co-ordinates may be deduced from the spectral distribution of the transmission of the cover and the transmission or reflection of any other optical effective elements which could impair the colour of the special warning lamp. The calculation then shall be based on a luminous source with a relative spectral distribution as listed in Annex 6.</p>		X	

**TRICHROMATIC CO-ORDINATES FOR THE LIGHT EMITTED THROUGH THE AMBER OR BLUE FILTERS CONSTITUTING THE COVERS OF SPECIAL WARNING LAMPS (ANNEX 3)**

Characteristics concerned and prescriptions to apply	References	Conformity	Not applicated
<p>Under the conditions of § 7 of this Regulation, the trichromatic co-ordinates of light emitted through the filters used for special warning lamps shall lie within the following boundaries:</p> <p>1. Amber <sup>1</sup></p> <p>limit towards green : <math>y \leq x - 0.120</math></p> <p>limit towards red : <math>y \geq 0.390</math></p> <p>limit towards white : <math>y \geq 0.790 - 0.670 x</math></p> <p>2. Blue</p> <p>limit towards green : <math>y = 0.065 + 0.805 x</math></p> <p>limit towards white : <math>y = 0.400 - x</math></p> <p>limit towards purple : <math>y = 1.67x - 0.222</math></p> <p>3. Red</p> <p>limit towards purple : <math>y \geq 0.980-x</math></p> <p>limit towards yellow : <math>y \leq 0.335</math></p>		<p>X</p>	<p>X</p> <p>X</p>

<sup>1</sup> Corresponds to a specific part of the "yellow" zone of the triangle of CIE colours.

**PROCEDURE FOR THE RAIN TEST (ANNEX 4)**

Characteristics concerned and prescriptions to apply	References	Conformity	Not applicated
<p>A simple of the special warning lamp, fitted in its normal operating position, with all the drainage apertures open if they exist, shall be subjected to a precipitation of 2.5 mm of water per minute, the water being directed at an angle of 45° and from a nozzle producing a full conical jet.</p> <p>During the test, the device shall turn on its vertical axis at a rate of 4 turns per minute.</p> <p>The test shall last for 12 hours continuously after which the water jet shall be stopped.</p> <p>One hour later, the sample shall be examined and shall be regarded as having passed the test if the accumulated volume of water does not exceed 2 cm<sup>3</sup>.</p>		X	

**PHOTOMETRIC SPECIFICATIONS (ANNEX 5)**

Characteristics concerned and prescriptions to apply	References	Conformity	Not applicated
<p>Measurements of the photometric characteristics shall be taken at a distance of at least 25 m.</p> <p>The angular diameter of the photoelectric receiver as seen from the special warning lamp shall be 10 minutes or arc maximum.</p> <p>The response time of the photometric system shall be adequate to the rising time of the signal to be measured.</p>	1.	X	
<p>For special warning lamps having one level of intensity (class1), the "by night" level shall apply.</p> <p>For special warning lamps having two levels of intensity (class 2), measurements shall be carried out for each of the two levels.</p> <p>The effective luminous intensities in various directions shall be as specified in the table below.</p>	2.	X	

Characteristics concerned and prescriptions to apply	References	Conformity	Not applied
<p>If a filament lamp is used that shall be a standard filament lamp as provided for in Regulation No. 37 corresponding to a lamp of the category specified for the special warning lamp.</p> <p>Light source conditions for test:</p> <p>In the case of replaceable light sources a standard lamp shall be used.</p> <p>All measurements on lamps equipped with replaceable or non-replaceable light sources (filament lamps, gas discharge light sources and other) shall be made at 6.75 V, 13.5 V or 28.0 V, respectively.</p> <p>In the case of a system that uses a special power supply, or a dedicated power supply, or light source control gear, the voltage declared by the manufacturer shall be applied to the input terminals of that power supply. Unless otherwise specified 6.75 V, 13.5 V or 28 V, as applicable shall be used.</p> <p>In the case of filament lamps it is allowed to make the measurements with a standard filament lamp at reference flux conditions nearly at 12 V and recalculate the measured values by a factor, which is determined with this standard filament lamp at 13.5 Volt, if applicable.</p> <p>For any lamp equipped with non-filament light source(s), the luminous intensities measured after one minute and after 30 minutes of operation shall comply with the minimum and maximum requirements. The luminous intensity distribution after one minute of operation can be calculated by applying the ratio achieved at HV between one minute and 30 minutes of operation.</p> <p>If the emitted light of a special warning lamp consists of groups of several flashes, the time distance <math>\Delta t</math> between the immediately following flashes must be very short.</p> <p>If the peak to peak distance <math>\Delta t</math> is less or equal to 0.04 s, then the pulses in between are evaluated as one flash. If this distance <math>\Delta t</math> is longer only the flash with the highest effective intensity is valid. Moreover, the period is limited depending on the ratio between the effective intensities of the flashes within a group (<math>I_H</math> = max. effective intensity of the highest peak, <math>I_L</math> = max. effective intensity of the lowest peak) as follows:</p> <p>in case</p> $\frac{I_H}{I_L} > 10 \text{ then } \Delta_t (s) < \frac{1}{3f}$ <p>in case</p> $1 < \frac{I_H}{I_L} < 10 \text{ then } \Delta_t (s) < \frac{1}{f(5.50 - 0.25 \frac{I_H}{I_L})}$	<p>3.</p> <p>4.</p> <p>4.1.</p> <p>4.2.</p> <p>4.3.</p> <p>5.</p> <p>6.</p>	<p></p> <p></p> <p>X</p> <p></p> <p></p> <p>X</p> <p></p> <p>X</p>	<p>X</p> <p></p> <p>X</p> <p></p> <p>X</p> <p></p> <p></p>

Characteristics concerned and prescriptions to apply	References	Conformity	Not applied
<p>Frequency, time, and intensity of the emitted light</p> <p>The frequency, the "ON" time and the "OFF" time shall be as specified in the table shown in §7.1</p> <p>The effective luminous intensities (<math>J_e</math>) within the relevant vertical angles for a special warning lamp (Category T) shall be as specified in the table shown in §7.2.</p> <p>In the case of a special warning lamp device which is comprised of more than one separate unit, the geometrical arrangement(s) as installed at the vehicle seems to be acceptable, if the partial light distribution of each single separate unit is overlapping with each adjacent partial light distribution inside a horizontal angular range of 360° and in a vertical angular range as specified for the relevant category in a geometrical position corresponding to a distance of 20 m, from the vehicle on a vertical plane that is perpendicular to the longitudinal axis of the vehicle and located midway between the lamp units on a side of the vehicle.</p> <p>The effective luminous intensities in the reference axis for a directional flashing lamp (Category X) shall be as specified in the table shown in §7.3.</p> <p>Table of standard light distribution for special warning flash lamp (Category X)</p> <p>Minimum horizontal angular range of category "narrow angle effect" is 30° left to 30° right and for category "wide angle effect" 90° directed outwards the vehicle and 30° to the inside.</p> <p>The direction <math>H = 0^\circ</math> and <math>V = 0^\circ</math> corresponds to the reference axis. (On the vehicle it is horizontal, parallel to the median longitudinal plane of the vehicle and oriented in the required direction of visibility). It passes through the centre of reference. The values shown in the table give, for the various directions of measurements, the minimum intensities as a percentage of the minimum required in the axis for each lamp (in the direction <math>H = 0^\circ</math> and <math>V = 0^\circ</math>).</p> <p>Within the field of light distribution of § 7.3.1. schematically shown as a grid, the light pattern should be substantially uniform, i.e. the light intensity in each direction of lowest minimum value being shown on the grid lines surrounding the questioned direction as a percentage.</p> <p>In the case of a special warning lamp device of Category X which comprises of more than one separate unit, the geometrical arrangement(s) as installed on the vehicle, is(are) acceptable when the partial light distribution of each single separate unit is overlapping with each adjacent partial light distribution inside the horizontal and vertical angular range specified for the Category X.</p>	<p>7.</p> <p>7.1</p> <p>7.2.</p> <p>7.2.1.</p> <p>7.3.</p> <p>7.3.1.</p> <p>7.3.1.1.</p> <p>7.3.1.2.</p> <p>7.3.2.</p>	<p>X</p> <p>X</p> <p>X</p> <p></p> <p></p> <p></p> <p></p> <p></p> <p></p> <p></p>	<p></p> <p></p> <p></p> <p></p> <p>X</p> <p></p> <p></p> <p></p> <p></p>



Characteristics concerned and prescriptions to apply	References	Conformity	Not applicated
<p>If two or more optical systems are integrated in one special warning lamp, this unit has to comply with the following requirements:</p> <p>Each optical system shall be in accordance with the requirements of this Annex within the horizontal angle which is not covered by one of the other optical systems. Furthermore, in each required direction at least one optical system shall be effective corresponding to the requirements of this Annex.</p> <p>If a special warning lamp contains two or more optical systems, all the optical systems shall work in phase. This applies only to each half of a complete "bar" which is designed to extend on the width of the vehicle.</p> <p>As long as the efficiency of the special warning lamp is to be secured all around the car a detection of the failure of a part of a special warning system shall exist on the car. If it is designed by the special warning lamp manufacturer this detection shall be checked during the approval procedure.</p>	<p>8.</p> <p>8.1.</p> <p>8.2.</p> <p>8.3.</p>		X

**FACILITIES AND EQUIPMENT**

The facilities and equipment used to carry out the inspections are in compliance with the requirements of the applied Regulatory Act(s).

Equipment Description	Model Number
SJTC-O-001 Goniophotometer	OPTRONIK SMS 10c
SJTC-O-016 Flash meter	Czibula & Grundmann GmbH Ph-St-B8-Th-Fast
SJTC-O-017 High-Speed Multi Channel Spectrophoto Meter	OTSUKA MCPD-9800(2480)
SJTC-O-011 Power Supply	OPTRONIK SNT10
SJTC-O-021 Oscilloscope	TEKTRONIX DPO3012
SJTC-M-005 Aging Oven Tester	GOLDEN TOP
SJTC-M-015 Temperature & Humidity Tester	GIANT FORCE
Rain Test	TESTING BY JULUEN ENTERPRISE CO., LTD.



**TEST RESULTS : For Special Warning Lamp on by Night Level**

Light sources : 10LEDs / 1 light source ; Rated voltage and wattage : 12V 37W / 24V 37W

Specification : Measure the effective luminous intensity  $J_e$ , locating minimum and maximum value along horizontal plane, 10 degree increments.

**Test Results of Photometric Measurement and Flash Characteristics Measurement**

Lamp Function	: Amber Special Warning Lamp	Test Voltage	: 13.5V / 28V					
Category & Class	: TA1	Test Distance	: 25 m					
Requirement	: ECE Reg. 65 Annex 5							
By Day / By Night	: By Night	“ON” time $t_H$	: 0.1925 s / 0.1943 s					
Frequency (f)	: 2.06 Hz / 2.04 Hz	“OFF” time $t_D$	: 0.2929 s / 0.2936 s					
Flash Mode	: Double Flash							
Point on Measuring Screen	Requirement(cd)		Measurement (cd)					
	Min	Max	Sample 1 (12V)			Sample 2 (24V)		
			1 Minute	30 Minutes	Remark	1 Minute	30 Minutes	Remark
H - 180R(L)	100	700	139.4	133.2		145.0	131.0	
H - 170R	100	700	142.4	136.0		141.9	128.1	
H - 160R	100	700	141.2	134.9		145.5	131.5	
H - 150R	100	700	137.7	131.5		139.4	125.9	
H - 140R	100	700	146.7	140.1		139.1	125.7	
H - 130R	100	700	146.4	139.9		138.8	125.4	
H - 120R	100	700	140.1	133.8		134.7	121.7	
H - 110R	100	700	143.3	136.9		136.0	122.9	
H - 100R	100	700	143.5	137.1		134.2	121.2	
H - 90R	100	700	142.6	136.2		133.0	120.1	
H - 80R	100	700	145.3	138.8		133.2	120.4	
H - 70R	100	700	144.7	138.2		128.6	116.2	
H - 60R	100	700	144.5	138.0		128.8	116.3	
H - 50R	100	700	148.9	142.2		125.9	113.7	Min. $J_e$
H - 40R	100	700	149.3	142.6	Max. $J_e$	129.5	116.9	
H - 30R	100	700	141.7	135.3		134.6	121.6	
H - 20R	100	700	142.2	135.9		133.8	120.9	
H - 10R	100	700	136.6	130.5	Min. $J_e$	133.0	120.1	
H - V	100	700	140.7	134.3		141.0	127.4	
H - 10L	100	700	139.2	132.9		136.8	123.6	
H - 20L	100	700	142.6	136.2		136.5	123.3	
H - 30L	100	700	137.4	131.2		134.5	121.5	
H - 40L	100	700	143.0	136.6		133.7	120.7	
H - 50L	100	700	140.3	134.0		133.2	120.4	
H - 60L	100	700	141.6	135.2		139.1	125.7	
H - 70L	100	700	143.3	136.9		139.5	126.0	
H - 80L	100	700	144.3	137.8		140.1	126.5	
H - 90L	100	700	145.5	139.0		149.4	134.9	
H - 100L	100	700	147.8	141.1		148.3	134.0	
H - 110L	100	700	147.4	140.8		139.5	126.1	
H - 120L	100	700	142.8	136.4		144.8	130.8	
H - 130L	100	700	138.8	132.6		147.4	133.1	Max. $J_e$
H - 140L	100	700	140.3	134.0		145.4	131.3	
H - 150L	100	700	131.1	125.2		141.2	127.6	
H - 160L	100	700	138.7	132.5		140.7	127.1	
H - 170L	100	700	139.6	133.4		137.7	124.4	
Test Results			<input checked="" type="checkbox"/> Passed			<input type="checkbox"/> Failed		



**Test Results of Photometric and Flash Characteristics Measurement**

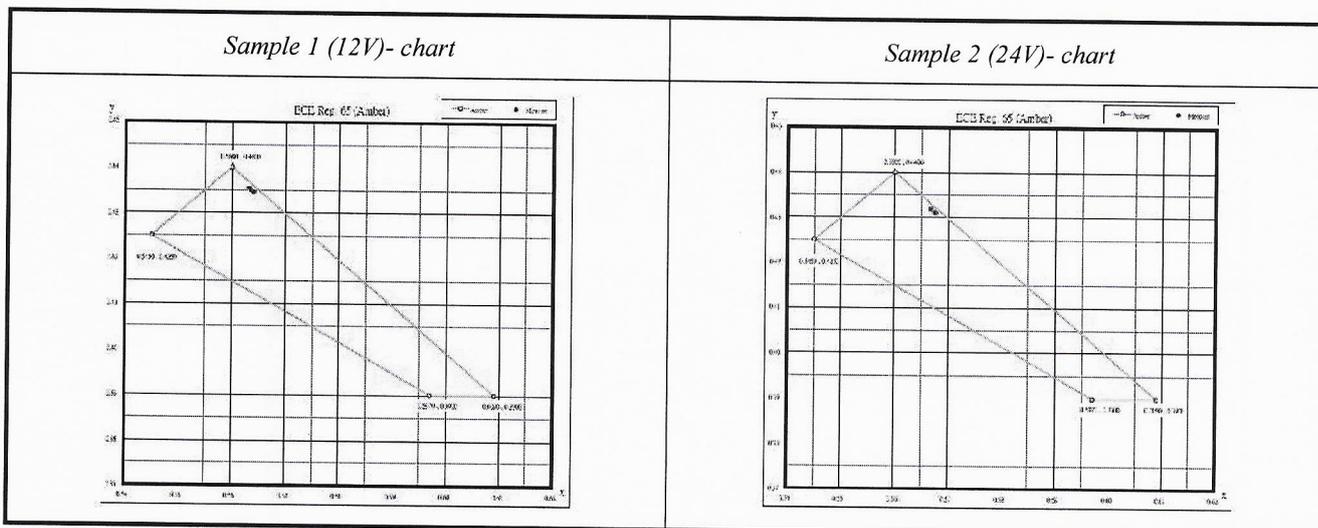
Lamp Function	: Amber Special Warning Lamp	Test Voltage	: 13.5 / 28 V
Category&Class	: TA1	Test Distance	: 25 m
Requirement	: ECE Reg. 65 Annex 5 and Annex 3		
By Day / By Night	: By Night	"ON" time $t_H$	: 0.1925 s / 0.1943 s
Frequency (f)	: 2.06 Hz / 2.04 Hz	"OFF" time $t_D$	: 0.2929 s / 0.2936 s
Flash Mode	: Double Flash		

**Test Results of Photometric Measurement**

Point on Measuring Screen	Requirement ( cd )		Sample 1 (12V) Je Measurement ( cd )			
	Min	Max	Locating Maximum Je		Locating Minimum Je	
			1 Minute	30 Minutes	1 Minute	30 Minutes
8U - 40R	70	600	103.3	98.7	-	-
2U - 40R	-	700	146.9	140.3	-	-
H - 40R	100	700	149.3	142.6	-	-
2D - 40R	-	700	144.5	138.0	-	-
8D - 40R	70	600	103.7	99.1	-	-
Outside the above areas	-	300	86.6	82.7	-	-
8U - 10R	70	600	-	-	97.6	93.2
2U - 10R	-	700	-	-	135.6	129.5
H - 10R	100	700	-	-	136.6	130.5
2D - 10R	-	700	-	-	129.6	123.8
8D - 10R	70	600	-	-	98.1	93.7
Outside the above areas	-	300	-	-	83.3	79.6
Point on Measuring Screen	Requirement ( cd )		Sample 2 (24V) Je Measurement ( cd )			
	Min	Max	Locating Maximum Je		Locating Minimum Je	
			1 Minute	30 Minutes	1 Minute	30 Minutes
8U - 130L	70	600	99.3	89.7	-	-
2U - 130L	-	700	144.4	130.4	-	-
H - 130L	100	700	147.4	133.1	-	-
2D - 130L	-	700	139.5	126.1	-	-
8D - 130L	70	600	102.8	92.8	-	-
Outside the above areas	-	300	90.2	81.4	-	-
8U - 50R	70	600	-	-	98.3	88.8
2U - 50R	-	700	-	-	127.1	114.8
H - 50R	100	700	-	-	125.9	113.7
2D - 50R	-	700	-	-	117.8	106.5
8D - 50R	70	600	-	-	93.3	84.3
Outside the above areas	-	300	-	-	91.4	82.6
Test Results	<input checked="" type="checkbox"/> Passed		<input type="checkbox"/> Failed			



<u>Test Results of Colour Measurement</u>		
Light Emitted Color	: Amber	
By Day / By Night	: By Night	
Color Boundaries	- Limit towards green : $y \leq x - 0.120$ - Limit towards red : $y \geq 0.390$ - Limit towards white : $y \geq 0.790 - 0.670 x$	
Test Points	Measurement ( x,y)	
	Sample 1 (12V)	Sample 2 (24V)
Point 1	(0.5635, 0.4350)	(0.5668, 0.4319)
Point 2	(0.5631, 0.4355)	(0.5667, 0.4319)
Point 3	(0.5640, 0.4346)	(0.5677, 0.4310)
Point 4	(0.5640, 0.4345)	(0.5675, 0.4311)
Point 5	(0.5640, 0.4345)	(0.5675, 0.4312)
Test Results	<input checked="" type="checkbox"/> Passed <input type="checkbox"/> Failed	





**Test Results of Temperature Measurement**

Lamp Function : Amber Special Warning Lamp

Requirement : ECE Reg. 65 Para 5.6

Test Requirement : The special warning lamp shall remain assured at temperatures between - 20 °C and + 50 °C. Under the condition, one minute after a voltage equal to 90 percent of the rated voltage has been applied, the frequency shall remain between 2 and 4 Hz.

Flash frequency measurement within temperature test :

Test sample	Temperature (°C)	Requirement ( Hz )		Measurement ( Hz )
		Min	Max	
Sample 2	-20	2.0	4.0	2.02
	50			2.04
Test Results	<input checked="" type="checkbox"/> Passed <input type="checkbox"/> Failed			

**Test Results of Rain Test**

Lamp Function : Amber Special Warning Lamp

Requirement : ECE Reg. 65 Annex 4

Visible Inspection : Upon completion of the drain one hour later, the accumulated volume of water does not exceed 2 cm<sup>3</sup>.

Flash frequency measurement within rain test :

Test Sample	Requirement ( Hz )		Measurement ( Hz )
	Min	Max	
Sample 3	2.0	4.0	2.03
Test Results	<input checked="" type="checkbox"/> Passed <input type="checkbox"/> Failed		

ECE INFORMATION DOCUMENT REF: JULUEN B14 TA1 / 515 /00

**JULUEN ENTERPRISE CO., LTD.**  
8F-1, No. 502, Da An Rd. Shulin District,  
Xinbei City, Taiwan



**AUTOMOTIVE certification**  
Business Class Kantorenpark  
Jan Olieslagerslaan 35  
B-1800 Vilvoorde  
E-mail: [homologation@vincotte.be](mailto:homologation@vincotte.be)

2012.10.08

## **SPECIAL WARNING LAMP**

**AXIXTECH B14 TA1**  
**AEB BELGIUM 515**

**Application: original**  
**Date: September 05, 2012**

**Total number of pages: 5**

ECE INFORMATION DOCUMENT REF: JULUEN B14 TA1 / 515 /00

Manufacturer name and address: **JULUEN ENTERPRISE CO., LTD.**  
**8F-1, No. 502, Da An Rd. Shulin District,**  
**Xinbei City, Taiwan**

Trade name or mark : **AXIXTECH ; AEB BELGIUM**

Type of device : **B14 TA1 ; 515**



**AUTOMOTIVE** certification  
 Business Class Kantorenpark  
 Jan Olieslagerslaan 35  
 B-1800 Vilvoorde  
 E-mail: [homologation@vincotte.be](mailto:homologation@vincotte.be)  
 2012.10.08

## SPECIFICATIONS

Function-Application-class category lamp and colour

Trade name or mark		<b>AXIXTECH &amp; AEB BELGIUM</b>	
Function		<i>Special warning lamp</i>	
ECE Regulation		65-00 Supplement 7	
Levels of intensity (Class)		Class 1	
Used intensity system	by day by night	N.A. Normal system	
Category		<del>Directional</del> / <del>Rotating</del> / Stationary flashing	
Number, category and kind of light source(s)		10 LEDs / 1 light source	
Voltage and wattage		12V 37W / 24V 37W	
Lens	Outer	Amber	
	Filter (Inner)	Clear	
Colour of light emitted		Amber / <del>Red</del> / <del>Blue</del>	

## TECHNICAL DATA

Part		Material	Remark
Lens	Outer	PC (polycarbonate)	Sabic <sup>(1)</sup>
	Filter (Inner)	PC (polycarbonate)	Sabic <sup>(1)</sup>
Reflector		-	-
Housing		PC+ALUMINUM	ADC12

<sup>(1)</sup> The base material of lens: Type number is LEXAN LS2 from Sabic Innovative Plastics.

## MARKING

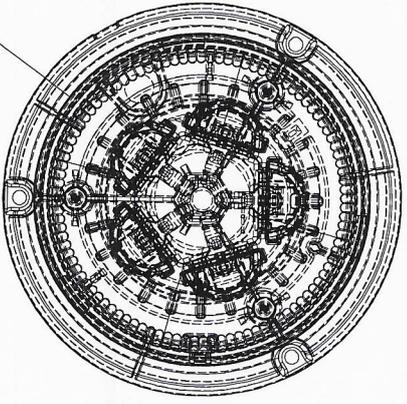
Marking		Location
Trade name or mark	<b>AXIXTECH &amp; AEB BELGIUM</b>	See drawing
Approval marks	<b>0036</b>	See drawing

DRAWING REF: -- JULUEN B14 TA1 / 515 / 00 -- dated 2012.09.11

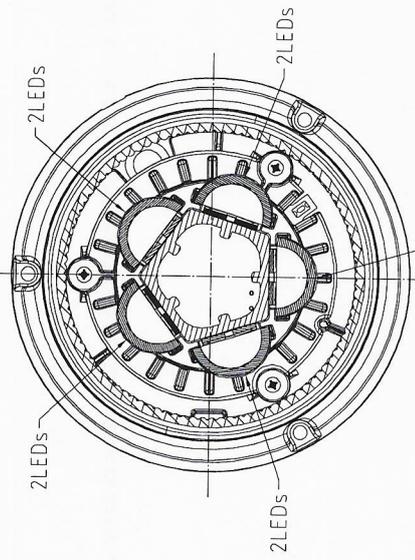
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SPECIAL WARNING LAMP  
 AXIS OF REFERENCE  
 LONGITUDINAL PLANE OF VEHICLE  
 10LEDs, 12V/24V, 37W

**AXIXTECH** TA1  
 B14 12V/24V 37W  
 APPROVAL LABEL  
 E6 000036

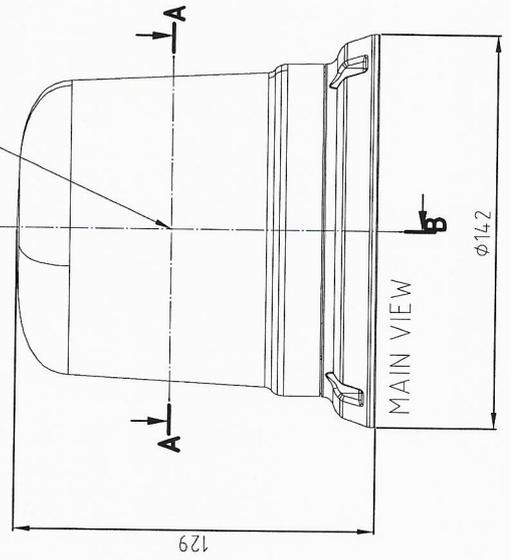


TOP VIEW



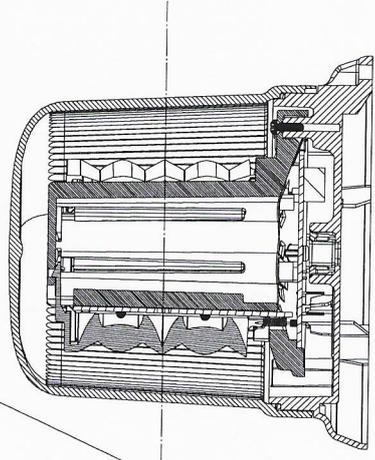
SEC. A-A

SPECIAL WARNING LAMP  
 CENTER OF REFERENCE  
 10LEDs, 12V/24V, 37W



MAIN VIEW

SPECIAL WARNING LAMP  
 AXIS OF REFERENCE  
 HORIZONTAL PLANE OF VEHICLE  
 10LEDs, 12V/24V, 37W



SEC. B-B

**VINCOTTE**  
 AUTOMOTIVE certification  
 Business Class Kantorenpark  
 Jan Olieslagerslaan 35  
 B-1800 Vlioorde  
 E-mail: homologation@vincotte.be  
 2012.10.08

Note:

1. Lens and Base are secured by snap.
2. Lens and Collimator material (Polycarbonate), Base material (Aluminum ADC12 & Polycarbonate)
3. Lens cover color: Amber.

**巨輪興業有限公司**  
 JULUEN Enterprise Co.,Ltd.

MODEL	B14	TITLE	AXIXTECH(TA1)
MATERIAL		PR NO.	
APPROVAL		DATE	
CHECK		DATE	
DESIGNER	BENNY	DATE	2012/09/21
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		SHEET	1/1
		UNIT	mm
		REV	1.0

Ⓟ 重點尺寸

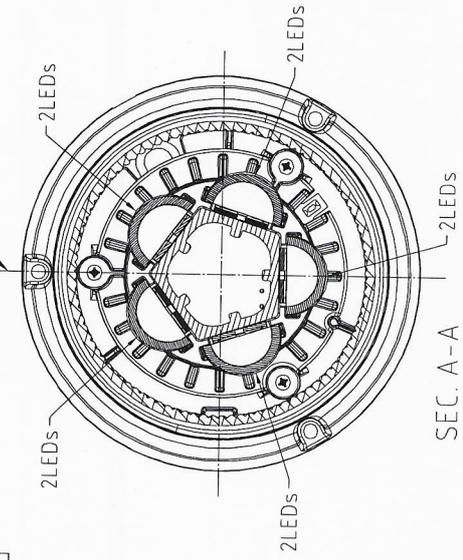
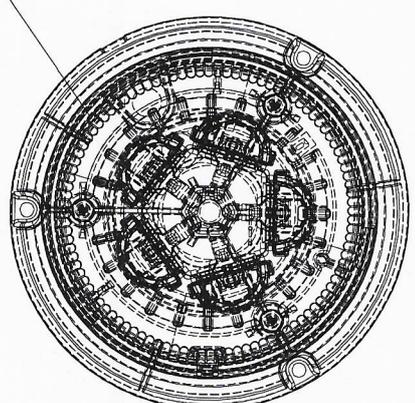
ITEM	DATE
1	
2	
3	MODIFY
4	
5	
6	

1 2 3 4 5 6

SPECIAL WARNING LAMP  
AXIS OF REFERENCE  
LONGITUDINAL PLANE OF VEHICLE  
10LEDs, 12V/24V 37W

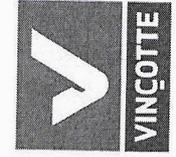
AEB BELGIUM (E6) TA1  
515 12V/24V 37W 000036

APPROVAL LABEL



TOP VIEW

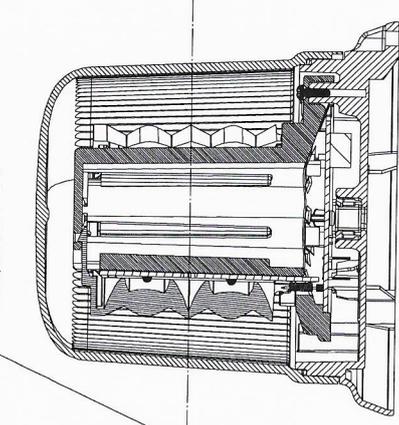
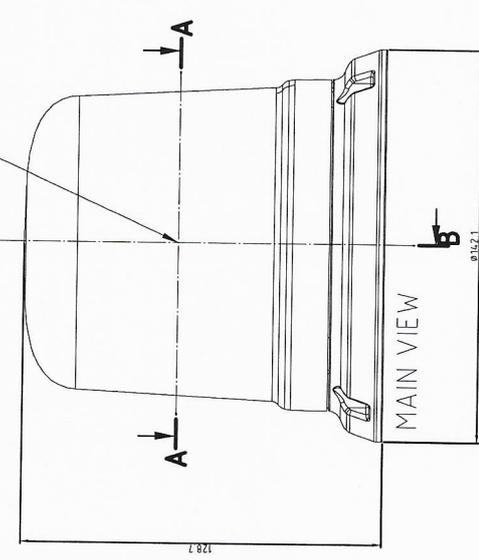
SEC. A-A



**AUTOMOTIVE certification**  
Business Class Kantorenpark  
Jan Olieslagerlaan 35  
B-1800 Vilvoorde  
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2012.10.08

SPECIAL WARNING LAMP  
CENTER OF REFERENCE  
10LEDs, 12V/24V 37W

SPECIAL WARNING LAMP  
AXIS OF REFERENCE  
HORIZONTAL PLANE OF VEHICLE  
10LEDs, 12V/24V 37W



MAIN VIEW

SEC. B-B

Note:  
1. Lens and Base are secured by snap.  
2. Lens and Collimator material (Polycarbonate),  
Base material (Aluminum ADC12 & Polycarbonate)  
3. Lens cover color: Amber.

 巨輪興業有限公司  
JULUEN Enterprise Co., Ltd.

MODEL	B14	TITLE	AEB BELGIUM(TA1)
MATERIAL		PR. NO.	
APPROVAL		DATE	
CHECK		DATE	
DESIGNER	BENNY	DATE	2012/09/21
		PROJECTION	
		SCALE	1 : 1
		UNIT	mm
		SHEET	1 / 1
		REV	1.0

Ⓢ 重點尺寸 ITEM

MODIFY

DATE

