

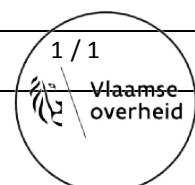
Index to the information package of a type approval with regard to a Regulation (UNECE) :

Last applicable Series of amendments	Base approval and update No	Extension No	Revision No	Issue date	Information document	
					Reference	Number of pages
R06-01	00	-	-	04.11.2019	SONAR SK1810(1811)-PYR11 / 00	11

Approved and to be attached to the approval certificate,

R. VERHELST

Updated Approval No:	E6*06R01/29*5128*00	BEVASYS :	201907152
Update No :	00	Issuedate :	04.11.2019





Communication concerning :

- Approval granted ⁽¹⁾
- ~~Approval extended ⁽¹⁾~~
- ~~Approval refused ⁽¹⁾~~
- ~~Approval withdrawn ⁽¹⁾~~
- ~~Production definitively discontinued ⁽¹⁾~~

of a type of direction indicator, pursuant to Regulation No.06

Approval No : E6*06R01/29*5128*00 Extension No : -

Approval mark :

R1D-S1D
02
2aD
01



←
5128
Left hand

R1D-S1D
02
2aD
01



→
5128
Right hand

1. Trade name or mark of device : SONAR
2. Manufacturer's name for the type of device : SK1810-PYR11, SK1811- PYR11
3. Manufacturer's name and address : Sonar Auto Parts Co., Ltd.
No. 427, Sec. 2, Wenhua Rd., Panchiao District,
New Taipei City, Taiwan, R.O.C.
4. If applicable, name and address of the manufacturer's representative : -
5. Submitted for approval on : 25.06.2019 ~ 22.08.2019
SUN-JET VISIBLE LIGHT LABORATORY.
6. Technical Service responsible for conducting approval test : Vincotte N.V.
Jan Olieslagerslaan 35
1800 Vilvoorde
Belgium
7. Date of test report issued by that service : 04.11.2019
8. Number of test report issued by that service : H1960667001/180

9.	Concise description :	See information document
	Category :	1, 1a, 1b , 2a, 2b , 5, 6 ⁽¹⁾
	Number, category :	14LEDs / 1 light source
	Function(s) produced by an interdependent lamp forming part of an interdependent lamps system :	-
	Voltage and wattage :	12V, 16.8W
	Light source module specific identification code :	-
	Only for limited mounting height of equal to or less than 750mm above the ground :	Yes / No ⁽¹⁾
	Geometrical conditions of installation and relating variations, if any :	See information document
	Application of an electronic light source control gear / variable intensity control :	
	(a) Being part of the lamp :	Yes / No ⁽¹⁾
	(b) Being not part of the lamp :	Yes / No ⁽¹⁾
	Input voltage(s) supplied by an electronic light source control gear / variable intensity control :	-
	Electronic light source control gear / variable intensity control manufacturer and identification number (when the light source control gear is part of the lamp but is not included into the lamp body) :	-
	Variable luminous intensity :	Yes / No ⁽¹⁾
	Sequential activation of light sources (see paragraph 5.6 of this Regulation) :	Yes / No ⁽¹⁾
10.	Position of approval mark :	On the lamp
11.	Reason(s) for extension (if applicable) :	Not applicable
12.	Approval granted / extended / refused / withdrawn ⁽¹⁾	

13. Place : Brussels
14. Date : 04.11.2019
15. Signature :

ON BEHALF OF THE SECRETARY-GENERAL:



R. VERHELST

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

(1) *Delete where not applicable*



VINÇOTTE nv

Registered office: Jan Olieslagerslaan 35 • 1800 Vilvoorde • Belgium

VAT BE 0462.513.222 • RPM/RPR Brussels • BNP Paribas Fortis: BE24 2100 4113 6338 • BIC: GEBABEBB

Jan Olieslagerslaan 35 • 1800 Vilvoorde • Belgium • phone: +32 2 674 57 11 • brussels@vincotte.be

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

1. **SUBJECT : DIRECTION INDICATORS**

R6-01

2. **REF. :** Report number : **H1960667001/180** No. of pages : 1 of 15 No. of annexes : -
Bevasys : 201907152 Approval No. : (5128 00) Update : 00

3. **GENERALITIES :**

Make of Device : SONAR

Commercial Type : -

Manufacturer's Type : SK1810-PYR11, SK1811- PYR11

Name and address of the manufacturer :

Sonar Auto Parts Co., Ltd.

No. 427, Sec. 2, Wenhua Rd., Panchiao District,

New Taipei City, Taiwan, R.O.C.

4. **TESTS :** Date and place : 2019.06.25 to 2019.08.22
SUN-JET VISIBLE LIGHT LABORATORY.
Applied document(s) : SONAR SK1810(1811)-PYR11 / 00
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. 6 incorporating supplement 29 to the 01 series of amendments.

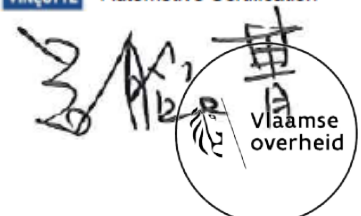
The models presented comply with the requirements to be applied.

Date : 2019.11.04

Signature :



VINÇOTTE nv/sa
LU Wan-Ching
Automotive Certification



DESCRIPTION OF THE TESTED DIRECTION INDICATOR

- Direction indicator lamp type : Rear direction indicator*
This rear direction indicator is sequential activation of light sources flash mode.
- Direction indicator lamp category : 2aD
On devices SK1810(1811)–PYR11 and SK1820(1821)–PYR11 which were requested as part of an assembly of two lamps, comply with ECE R6 in paragraph 4.2.2.1 「lamp (single) marked “D” 」 requirement.
- Category and kind of light source(s) : LED
- Number of light source : 14LEDs / 1 light source
- Voltage and wattage : 12V, 16.8W

*There are two kinds of outer lens, one is clear, and the other is smoked.

GENERAL SPECIFICATIONS

Characteristics concerned and prescriptions to apply	References	Conformity	Not applied
The requirements contained in sections 5. "General specifications" and 6. "Individual specifications" and in the Annexes referenced in the said sections of Regulations Nos. 48, 53, 74 or 86, and their series of amendments in force at the time of application for the lamp type approval shall apply to this Regulation. The requirements pertinent to each lamp and to the category/ies of vehicle on which the lamp is intended to be installed shall be applied, where its verification at the moment of lamp type approval is feasible.	5.		
Each device supplied shall conform to the specifications set forth in § 6 and § 8 below.	5.1.	X	
The devices must be so designed and constructed that under 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.	5.2.	X	
In the case of light source modules, it shall be checked that :	5.3.		X
The design of the light source module(s) shall be such as	5.3.1.		
(a) that each light source module can only be fitted in no other position than the designated and correct one and can only be removed with the use of tool(s)			
(b) if there are more than one light source module used in the housing for a device, light source modules having different characteristics can not be interchanged within the same lamp housing			
The light source module(s) shall be tamperproof.	5.3.2.		
A light source module shall be so designed that regardless of the use of tool(s), it shall not be mechanically interchangeable with any replaceable approved light source	5.3.3		
In case of failure of the variable intensity control of a direction indicator of category 2b emitting more than the maximum value of category 2a, requirements of steady luminous intensity of category 2a shall be fulfilled automatically.	5.4		X
In the case of replaceable filament lamp(s) :	5.5.		X
The device shall only be equipped with light source(s) approved according to UN Regulation No. 37 and/or UN Regulation No. 128, provided that no restriction on the use is made in UN Regulation No. 37 and its series of amendments in force at the time of application for type approval or in UN Regulation No. 128 and its series of amendments in force at the time of application for type approval.	5.5.1.		
The design of the device shall be such that light source cannot be fixed in any other position but the correct one.	5.5.2.		
The light source holder shall conform to the characteristics given in IEC Publication 60061. The holder data sheet relevant to the category of light source used, applies.	5.5.3.		



Manufacturer name and address : **Sonar Auto Parts Co., Ltd.**
 No. 427, Sec. 2, Wenhua Rd., Panchiao District,
 New Taipei City, Taiwan, R.O.C.

Trade name or mark : **SONAR**

Type of device : **SK1810-PYR11, SK1811-PYR11**

SPECIFICATIONS**Function-Application-class category lamp and colour**

AUTOMOTIVE certification
 Business Class Kantorenpark
 Jan Olieslagerslaan 35
 B-1800 Vilvoorde
 E-mail: homologation@vincotte.be
 2019.11.04

Trade name or mark	SONAR			
Function	<i>Rear Direction Indicator</i> ⁽¹⁾⁽³⁾	<i>Rear Position Lamp</i> ⁽¹⁾⁽²⁾	<i>Stop Lamp</i> ⁽¹⁾⁽²⁾	
ECE regulation	6-01 Supplement 29	7-02 Supplement 27	7-02 Supplement 27	
Class	-	-	-	
Category	2aD	R1D	S1D	
Number, category and kind of lamp source(s)	14LEDs / 1 light source	21LEDs / 1 light source	30LEDs / 1 light source	
Voltage and wattage	12V, 16.8W	12V, 3.1W	12V, 7.3W	
Electronic light source control gear				
- Being part of the lamp	-	-	-	
- Being not part of the lamp	-	-	-	
Lens	Outer version A	Clear	Red	Red
	Outer version B	Smoked	Red	Red
	Outer version C	Clear	Clear	Clear
	Outer version D	Smoked	Smoked	Smoked
	Filter (Inner)	Clear	White	Clear
Colour of light emitted	Amber	Red	Red	

⁽¹⁾ On devices SK1810(1811)-PYR11 and SK1820(1821)-PYR11 which were requested as part of an assembly of two lamps, comply with ECE R6 in paragraph 4.2.2.1 and ECE R7 in paragraph 6 「lamp (single) marked “D”」 requirement.

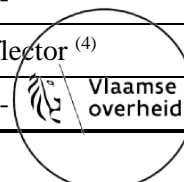
⁽²⁾ Total 30LEDs / 1 light source for stop lamp and 21LEDs / 1 light source for rear position lamp reciprocally incorporated with stop lamp.

⁽³⁾ This rear direction indicator is sequential activation of light sources flash mode.

TECHNICAL DATA

Part	Material	Remark	
Lens	Outer	PMMA	-
	Filter (Inner)	PC	-
Reflector	PC	Sub-reflector ⁽⁴⁾	
Housing	PC	-	

⁽⁴⁾ There are two kinds of sub-reflector, one is electroplated, and the other is black.



MARKING

Marking		Location
Trade name or mark	SONAR	See drawing
Approval marks	5128	See drawing
LED module code	-	-
Electronic light source control gear code	-	-

DRAWINGS	
Reference	Version
SK1810(1811) PYR11-1	2019.07.30
SK1810(1811) PYR11-2	2019.07.30
SK1810(1811) PYR11-3	2019.07.30
SK1810(1811) PYR11-4	2019.07.30
SK1810(1811) PYR11-5	2019.07.30
SK1810(1811) PYR11-6	2019.07.30
SK1810(1811) PYR11-7	2019.07.30
SK1810(1811) PYR11-8	2019.07.30

(Null below)



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DRIVING DIRECTION

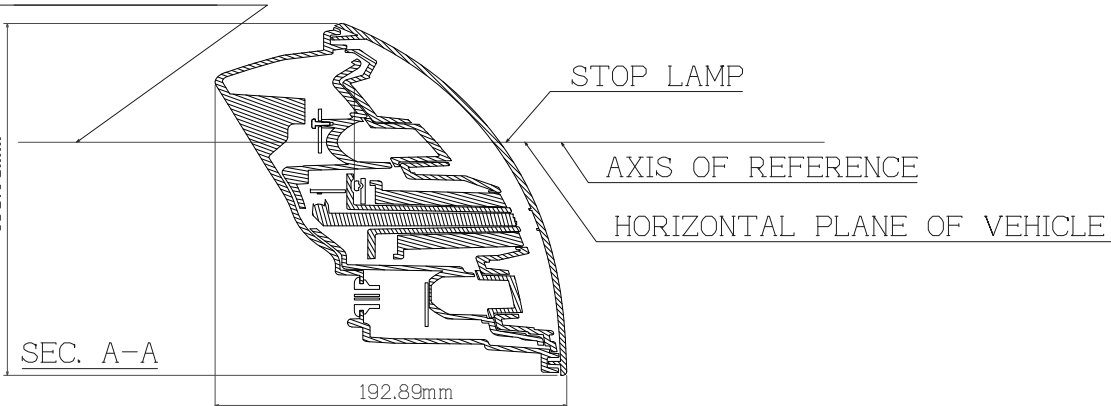


NOTE:

1. THIS DRAWING SHALL BE APPLIED FOR LEFT SIDE ONLY, THE RIGHT SIDE SHALL BE SYMMETRICAL
2. THE LENS IS FIXED TO HOUSING BY USING GLUE AND CLIPS.
3. VERSION A: CLEAR OUTER LENS (REAR DIRECTION LAMP) RED OUTER LENS (REAR POSITION LAMP, STOP LAMP)
(THERE ARE TWO KINDS OF SUB-REFLECTORS, ONE IS ELECTROPLATED AND THE OTHER IS BLACK)
4. VERSION B: SMOKE OUTER LENS (REAR DIRECTION LAMP) RED OUTER LENS (REAR POSITION LAMP, STOP LAMP)
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30LED`s12V7.3W

193.03mm



STOP LAMP

AXIS OF REFERENCE

HORIZONTAL PLANE OF VEHICLE

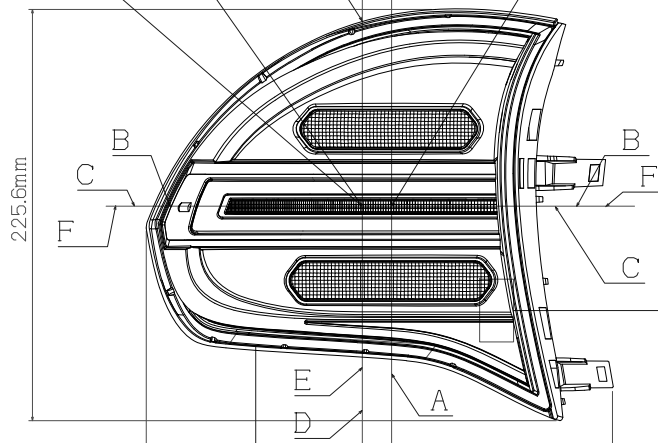
SEC. A-A

192.89mm

CENTER OF REFERENCE REAR POSITION LAMP (21LED`s12V3.1W)

CENTER OF REFERENCE (REAR DIRECTION INDICATOR 14LED`s12V16.8W)

CENTER OF REFERENCE STOP LAMP (30LED`s12V7.3W)



225.6mm

LH SONAR SK1811 PYR11

RH SONAR SK1810 PYR11

255.72mm

R1D-S1D
02
2aD
01
E6
5128

FOR LEFT

R1D-S1D
02
2aD
01
E6
5128

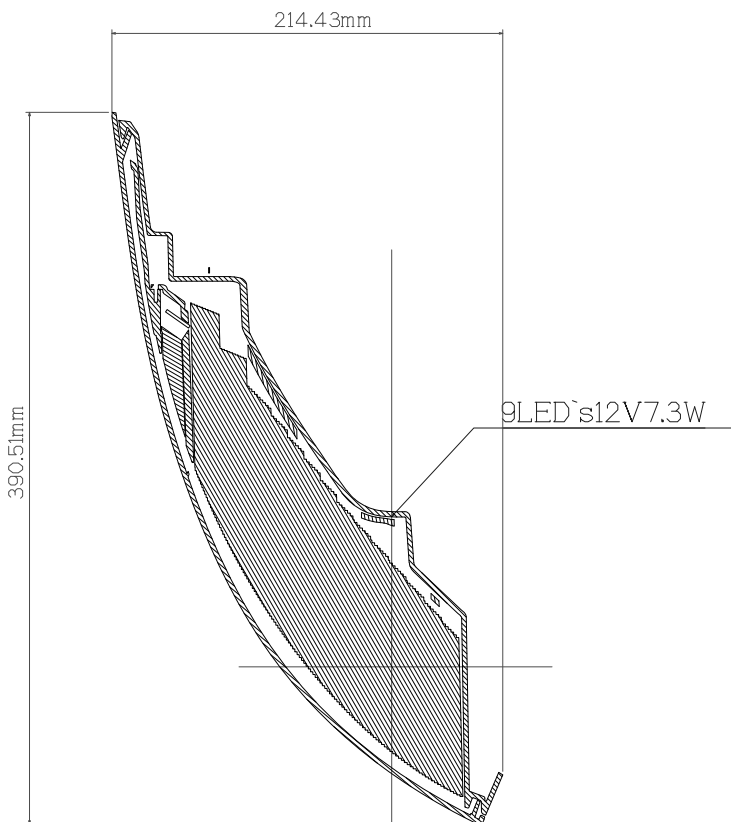
FOR RIGHT



AUTOMOTIVE certification
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2019.11.04

圖面比例: 1:1 UNIT:mm

COMPANY	SONAR AUTO PARTS CO., LTD	
MODEL NAME	SK1810(1811) PYR11-1	DATE:2019.07.30
FUNCTION	COMBINATION TAIL LAMP	



SEC. B-B

STOP LAMP
 AXIS OF REFERENCE
 LONGITUDINAL PLANE OF VEHICLE

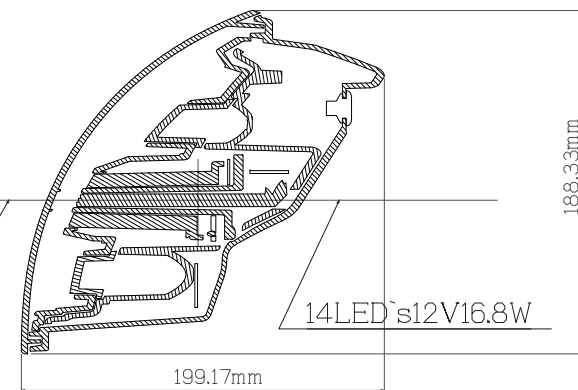
DRIVING DIRECTION



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AXIS OF REFERENCE
 HORIZONTAL PLANE OF VEHICLE
 REAR DIRECTION INDICATOR



SEC. D-D



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 2019.11.04

圖面比例: 1:1 UNIT:mm



COMPANY	SONAR AUTO PARTS CO., LTD	
MODEL NAME	SK1810(1811) PYR11-2	DATE:2019.07.30
FUNCTION	COMBINATION TAIL LAMP	

DRIVING DIRECTION



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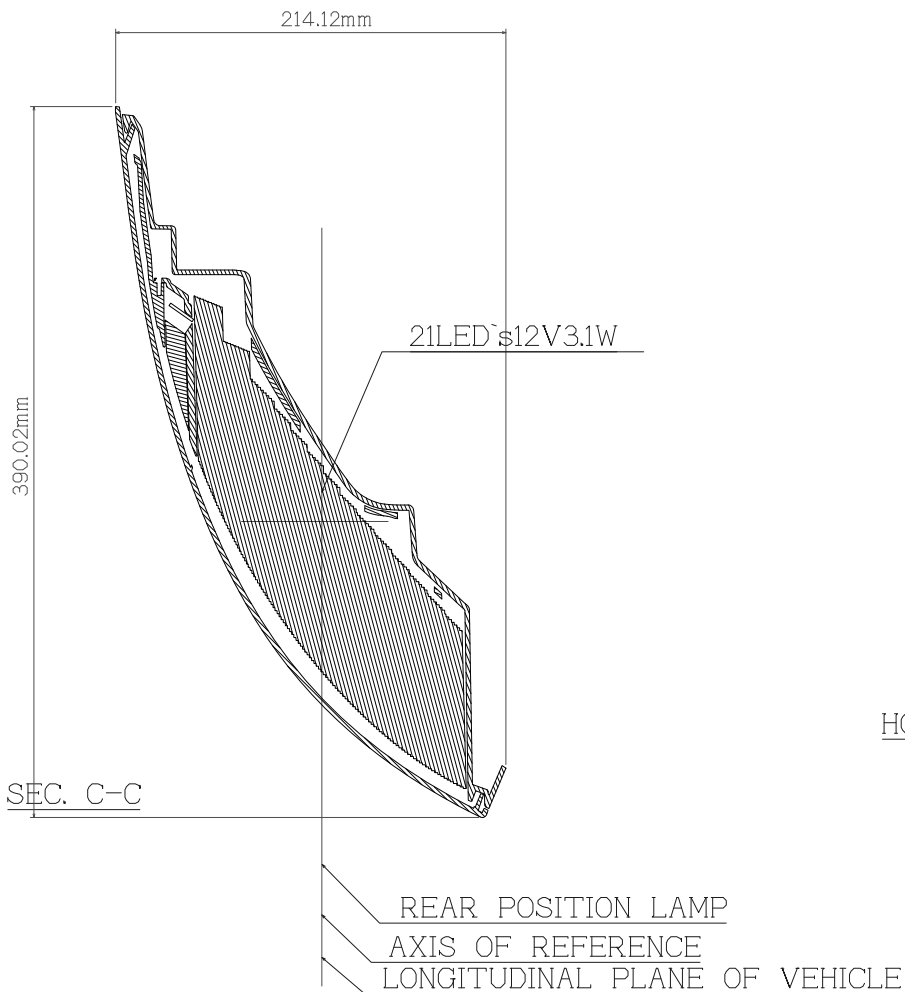
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6. VERSION D: SMOKE OUTER LENS

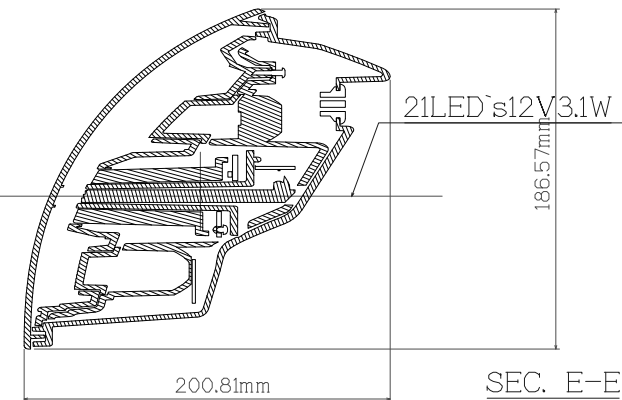
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HORIZONTAL PLANE OF VEHICLE

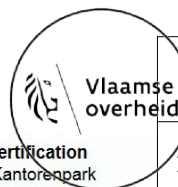
REAR POSITION LAMP

AXIS OF REFERENCE



圖面比例: 1:1

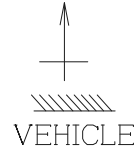
UNIT:mm



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COMPANY	SONAR AUTO PARTS CO., LTD	
MODEL NAME	SK1810(1811) PYR11-3	DATE:2019.07.30
FUNCTION	COMBINATION TAIL LAMP	

DRIVING DIRECTION

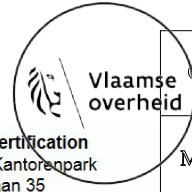


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圖面比例: 1:1 UNIT:mm



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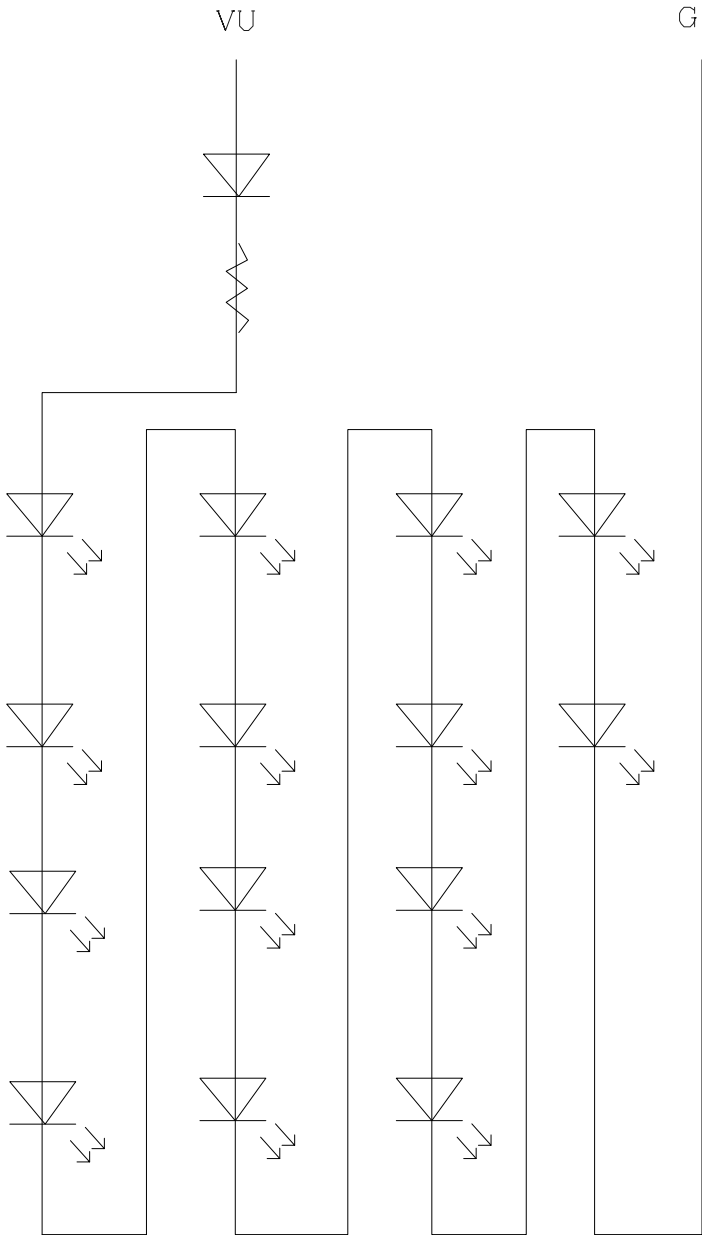
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MODEL NAME	SK1810(1811) PYR11-4	DATE:2019.07.30
FUNCTION	COMBINATION TAIL LAMP	

DRIVING DIRECTION



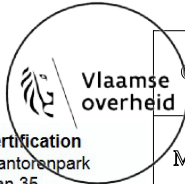
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CIRCUIT DIAGRAM OF REAR DIRECTION INDICATOR

圖面比例: 1:1 UNIT:mm



AUTOMOTIVE certification
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 B-1800 Vilvoorde
 E-mail: homologation@vincotte.be
 2019.11.04

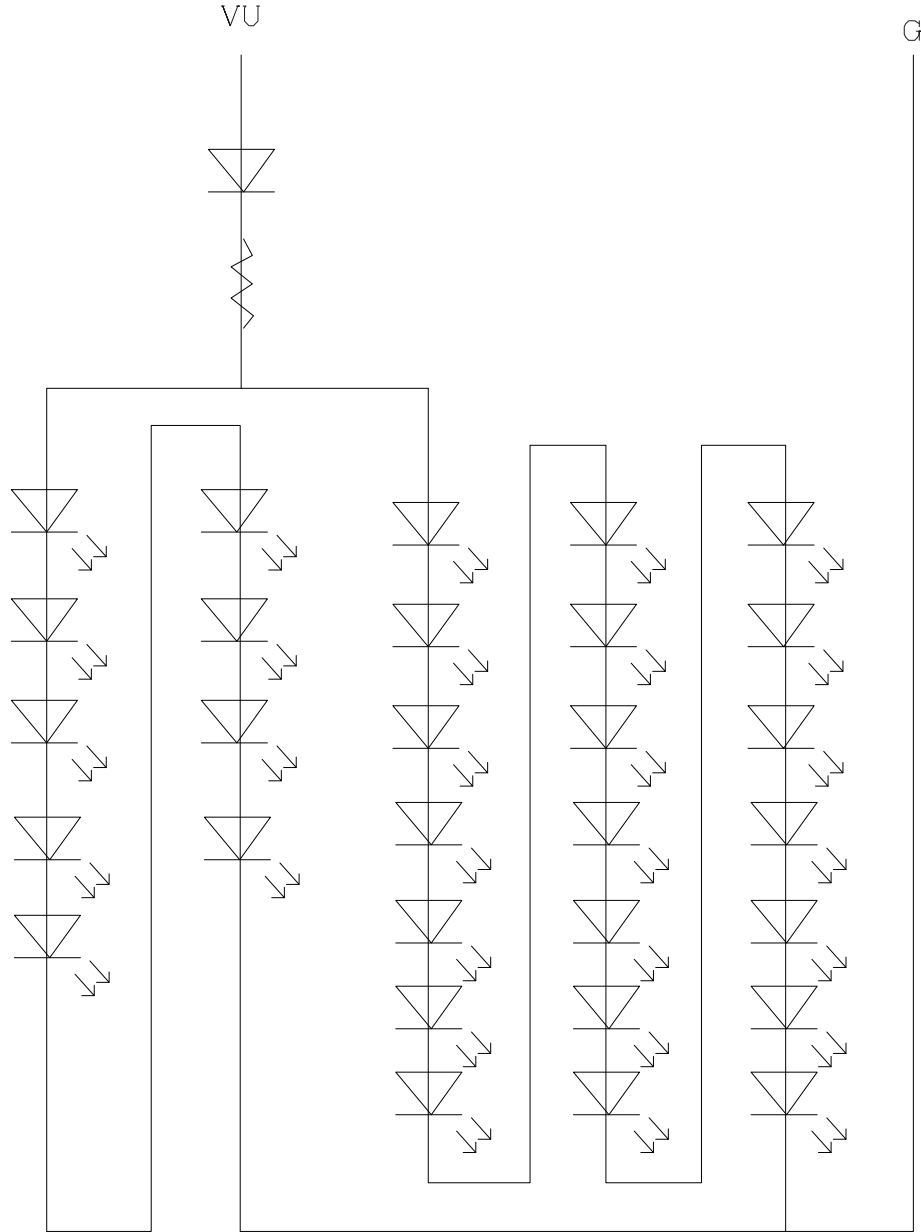
COMPANY	SONAR AUTO PARTS CO., LTD	
MODEL NAME	SK1810(1811) PYR11- 5	DATE:2019.07.30
FUNCTION	COMBINATION TAIL LAMP	

DRIVING DIRECTION



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CIRCUIT DIAGRAM OF STOP LAMP



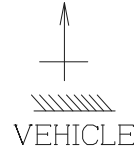
AUTOMOTIVE certification
 Business Class Kantorenpark
 Jan Olieslagerslaan 35
 B-1800 Vilvoorde
 E-mail: homologation@vincotte.be
 2019.11.04

圖面比例: 1:1 UNIT:mm



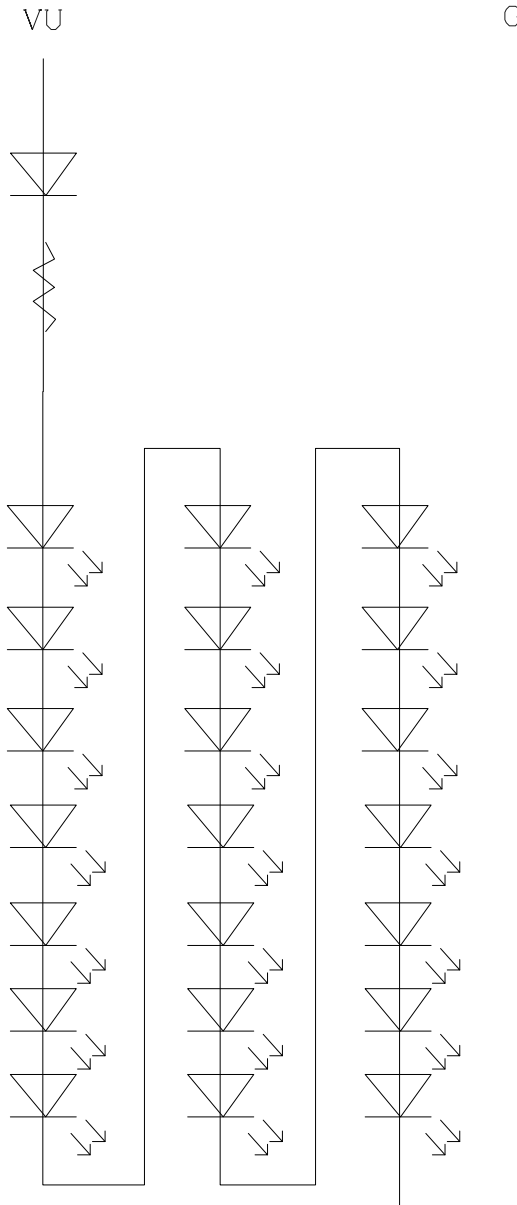
COMPANY	SONAR AUTO PARTS CO., LTD	
MODEL NAME	SK1810(1811) PYR11- 6	DATE:2019.07.30
FUNCTION	COMBINATION TAIL LAMP	

DRIVING DIRECTION



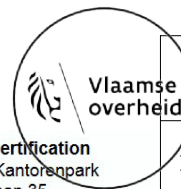
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CIRCUIT DIAGRAM OF REAR POSITION LAMP

圖面比例: 1:1 UNIT:mm



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 B-1800 Vilvoorde
 E-mail: homologation@vincotte.be
 2019.11.04

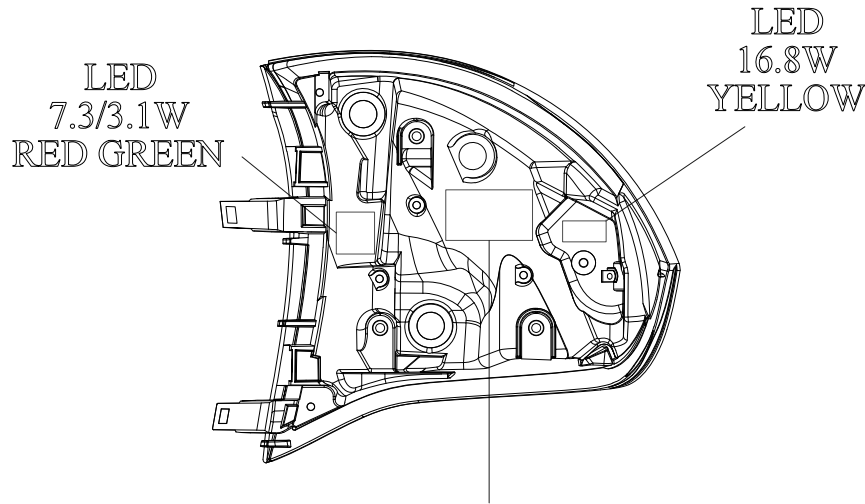
COMPANY	SONAR AUTO PARTS CO., LTD	
MODEL NAME	SK1810(1811) PYR11-7	DATE:2019.07.30
FUNCTION	COMBINATION TAIL LAMP	

DRIVING DIRECTION



NOTE:

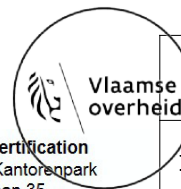
1. THIS DRAWING SHALL BE APPLIED FOR LEFT SIDE ONLY,THE RIGHT SIDE SHALL BE SYMMETRICAL
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- 3.VERSION A: CLEAR OUTER LENS(REAR DIRECTION LAMP)RED OUTER LENS(REAR POSITION LAMP,STOP LAMP)
(THERE ARE TWO KINDS OF SUB-REFLECTORS,ONE IS ELECTROPLATED AND THE OTHER IS BLACK)
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(THERE ARE TWO KINDS OF SUB-REFLECTORS,ONE IS ELECTROPLATED AND THE OTHER IS BLACK)
- 6.VERSION D: SMOKE OUTER LENS
(THERE ARE TWO KINDS OF SUB-REFLECTORS,ONE IS ELECTROPLATED AND THE OTHER IS BLACK)



SONAR SK1811 PYR11
MADE IN TAIWAN
LENS:PMMA
HSG:PC

12V ~~24V~~
LH

圖面比例: 1:1 UNIT:mm



AUTOMOTIVE certification
Business Class Kantorenpark
Jan Olieslagerslaan 35
B-1800 Vilvoorde
E-mail: homologation@vincotte.be
2019.11.04

COMPANY	SONAR AUTO PARTS CO., LTD	
MODEL NAME	SK1810(1811) PYR11-8	DATE:2019.07.30
FUNCTION	COMBINATION TAIL LAMP	

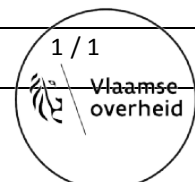
Index to the information package of a type approval with regard to a Regulation (UNECE) :

Last applicable Series of amendments	Base approval and update No	Extension No	Revision No	Issue date	Information document	
					Reference	Number of pages
R07-02	00	-	-	04.11.2019	SONAR SK1810(1811)-PYR11 / 00	11

Approved and to be attached to the approval certificate,

R. VERHELST

Updated Approval No:	E6*07R02/27*5128*00	BEVASYS :	201907153
Update No :	00	Issuedate :	04.11.2019





Communication concerning :

- Approval granted ⁽¹⁾
- ~~Approval extended ⁽¹⁾~~
- ~~Approval refused ⁽¹⁾~~
- ~~Approval withdrawn ⁽¹⁾~~
- ~~Production definitively discontinued ⁽¹⁾~~

of a type of device, pursuant to Regulation No.07

Approval No : E6*07R02/27*5128*00 Extension No : -

Approval mark :

R1D-S1D
02
2aD
01



←
5128
Left hand

R1D-S1D
02
2aD
01



→
5128
Right hand

1. Trade name or mark of device : SONAR
2. Manufacturer's name for the type of device : SK1810-PYR11, SK1811- PYR11
3. Manufacturer's name and address : Sonar Auto Parts Co., Ltd.
No. 427, Sec. 2, Wenhua Rd., Panchiao District,
New Taipei City, Taiwan, R.O.C.
4. If applicable, name and address of the manufacturer's representative : -
5. Submitted for approval on : 25.06.2019 ~ 22.08.2019
SUN-JET VISIBLE LIGHT LABORATORY.
6. Technical Service responsible for conducting approval test: Vincotte N.V.
Jan Olieslagerslaan 35
1800 Vilvoorde
Belgium
7. Date of report issued by that Service: 04.11.2019
8. Number of report issued by that Service : H1960667001/181

9.	Concise description :	See information document
9.1.	By category of lamp :	R1D-S1D
	For mounting either outside or inside or both ⁽¹⁾	
	Colour of light emitted :	White / Red ⁽¹⁾
	Number, category and kind of light source(s) :	21LEDs / 1 light source for rear position lamp 30LEDs / 1 light source for stop lamp
	Voltage and wattage :	12V, 3.1W for rear position lamp 12V, 7.3W for stop lamp
	Light source module specific identification code :	-
	Only for limited mounting height of equal to or less than 750mm above the ground :	Yes / No ⁽¹⁾
	Geometrical conditions of installation and relating variations, if any :	See information document
	Application of an electronic light source control gear / variable intensity control :	
	(a) Being part of the lamp :	Yes / No ⁽¹⁾
	(b) Being not part of the lamp :	Yes / No ⁽¹⁾
	Input voltage(s) supplied by an electronic light source control gear / variable intensity control :	-
	Electronic light source control gear/variable intensity control manufacturer and identification number (when the light source control gear is part of the lamp but is not included into the lamp body) :	-
	Variable luminous intensity :	Yes / No ⁽¹⁾
	The front position lamp, rear position lamp, stop lamp, end-outline marker lamp ⁽¹⁾ is only for use on a vehicle fitted with a tell-tale indicating failure :	Yes / No ⁽¹⁾
9.2.	Function(s) produced by an interdependent lamp forming part of an interdependent lamp system :	
	Front position lamp :	Yes / No ⁽¹⁾
	R1 Rear position lamp :	Yes / No ⁽¹⁾
	R2 Rear position lamp :	Yes / No ⁽¹⁾
	S1 Stop lamp :	Yes / No ⁽¹⁾
	S2 Stop lamp :	Yes / No ⁽¹⁾
	S3 Stop lamp :	Yes / No ⁽¹⁾
	S4 Stop lamp :	Yes / No ⁽¹⁾
	End-outline marker lamp :	Yes / No ⁽¹⁾
10.	Position of approval mark :	On the lamp
11.	Reason(s) for extension (if applicable) :	Not applicable
12.	Approval granted / extended / refused / withdrawn ⁽¹⁾	

13. Place : Brussels
14. Date : 04.11.2019
15. Signature :

ON BEHALF OF THE SECRETARY-GENERAL:



R. VERHELST

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

(1) *Strike out what does not apply*



VINÇOTTE nv

Registered office: Jan Olieslagerslaan 35 • 1800 Vilvoorde • Belgium

VAT BE 0462.513.222 • RPM/RPR Brussels • BNP Paribas Fortis: BE24 2100 4113 6338 • BIC: GEBABEBB

Jan Olieslagerslaan 35 • 1800 Vilvoorde • Belgium • phone: +32 2 674 57 11 • brussels@vincotte.be

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

1. **SUBJECT : FRONT AND REAR POSITION (SIDE) LAMPS
STOP-LAMPS
END-OUTLINE MARKER LAMPS**

R7-02

2. **REF. :** Report number : **H1960667001/181** No. of pages : 1 of 19 No. of annexes : -
Bevasys : 201907153 Approval No. : (5128 00) Update : 00

3. **GENERALITIES :**

Make of Device : SONAR

Commercial Type : -

Manufacturer's Type : SK1810-PYR11, SK1811-PYR11

Name and address of the manufacturer :

Sonar Auto Parts Co., Ltd.

No. 427, Sec. 2, Wenhua Rd., Panchiao District,

New Taipei City, Taiwan, R.O.C.

4. **TESTS :** Date and place : 2019.06.25 to 2019.08.22
SUN-JET VISIBLE LIGHT LABORATORY.
Applied document(s) : SONAR SK1810(1811)-PYR11 / 00
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. 7 incorporating supplement 27 to the 02 series of amendments.

The models presented comply with the requirements to be applied.

Date : 2019.11.04

Signature :



VINÇOTTE nv/sa
LU Wan-Ching
Automotive Certification



DESCRIPTION OF THE TESTED LAMP

- Lamp type : Rear position lamp reciprocally incorporated with stop lamp*
- Lamp category : R1D-S1D
On devices SK1810(1811) – PYR11 and SK1820(1821) – PYR11 which were requested as part of an assembly of two lamps, comply with ECE R7 in paragraph 6 「lamp (single) marked “D” 」 requirement.
- Category and kind of light source(s) : LED
- Number of light source(s) : 21LEDs / 1 light source for rear position lamp
 30LEDs / 1 light source for stop lamp
Total 30LEDs / 1 light source for stop lamp and 21LEDs / 1 light source for rear position lamp reciprocally incorporated with stop lamp.
- Voltage and wattage : 12V, 3.1W for rear position lamp
 12V, 7.3W for stop lamp

*There are three kinds of outer lens, one is clear, another is smoked and the other is red.

GENERAL SPECIFICATIONS

Characteristics concerned and prescriptions to apply	References	Conformity	Not applied
The requirements contained in sections 5. "General specifications" and 6. "Individual specifications" and in the Annexes referenced in the said sections of Regulations Nos. 48, 53, 74 or 86, and their series of amendments in force at the time of application for the lamp type approval shall apply to this Regulation.	5.		
The requirements pertinent to each lamp and to the category/ies of vehicle on which the lamp is intended to be installed shall be applied, where its verification at the moment of lamp type approval is feasible.			
Each device supplied shall conform to the specifications set forth in § 6 and 8 below.	5.1.	X	
The devices 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.	5.2.	X	
Lamps having been approved as front or rear position lamps, are deemed being also approved end-outline marker lamps.	5.3.		X
Front and rear position lamps which are grouped or combined or reciprocally incorporated may also be used as end-outline marker lamps.	5.4.		X
Position lamps, which are reciprocally incorporated with another function, using a common light source, and designed to operate permanently with an additional system to regulate the intensity of the light emitted, are permitted.	5.5.		
However, in the case of rear position lamp reciprocally incorporated with a stop lamp, the device shall either: (a) Be a part of a multiple light source arrangement, or (b) Be intended for use in a vehicle equipped with a failure monitoring system for that function.	5.5.1.	X	X
In either case, a note shall be made within the communication document.			
In the case of light source modules, it shall be checked that:	5.6.		X
The design of the light source module(s) shall be such as: (a) That each light source module can only be fitted in no other position than the designated and correct one and can only be removed with the use of tool(s); (b) If there are more than one light source module used in the housing for a device, light source modules having different characteristics can not be interchanged within the same lamp housing.	5.6.1.		



Manufacturer name and address : **Sonar Auto Parts Co., Ltd.**
 No. 427, Sec. 2, Wenhua Rd., Panchiao District,
 New Taipei City, Taiwan, R.O.C.

Trade name or mark : **SONAR**

Type of device : **SK1810-PYR11, SK1811-PYR11**

SPECIFICATIONS**Function-Application-class category lamp and colour**

AUTOMOTIVE certification
 Business Class Kantorenpark
 Jan Olieslagerslaan 35
 B-1800 Vilvoorde
 E-mail: homologation@vincotte.be
 2019.11.04

Trade name or mark	SONAR			
Function	<i>Rear Direction Indicator</i> ⁽¹⁾⁽³⁾	<i>Rear Position Lamp</i> ⁽¹⁾⁽²⁾	<i>Stop Lamp</i> ⁽¹⁾⁽²⁾	
ECE regulation	6-01 Supplement 29	7-02 Supplement 27	7-02 Supplement 27	
Class	-	-	-	
Category	2aD	R1D	S1D	
Number, category and kind of lamp source(s)	14LEDs / 1 light source	21LEDs / 1 light source	30LEDs / 1 light source	
Voltage and wattage	12V, 16.8W	12V, 3.1W	12V, 7.3W	
Electronic light source control gear				
- Being part of the lamp	-	-	-	
- Being not part of the lamp	-	-	-	
Lens	Outer version A	Clear	Red	Red
	Outer version B	Smoked	Red	Red
	Outer version C	Clear	Clear	Clear
	Outer version D	Smoked	Smoked	Smoked
	Filter (Inner)	Clear	White	Clear
Colour of light emitted	Amber	Red	Red	

⁽¹⁾ On devices SK1810(1811)-PYR11 and SK1820(1821)-PYR11 which were requested as part of an assembly of two lamps, comply with ECE R6 in paragraph 4.2.2.1 and ECE R7 in paragraph 6 「lamp (single) marked “D”」 requirement.

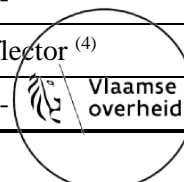
⁽²⁾ Total 30LEDs / 1 light source for stop lamp and 21LEDs / 1 light source for rear position lamp reciprocally incorporated with stop lamp.

⁽³⁾ This rear direction indicator is sequential activation of light sources flash mode.

TECHNICAL DATA

Part	Material	Remark	
Lens	Outer	PMMA	-
	Filter (Inner)	PC	-
Reflector	PC	Sub-reflector ⁽⁴⁾	
Housing	PC	-	

⁽⁴⁾ There are two kinds of sub-reflector, one is electroplated, and the other is black.



MARKING

Marking		Location
Trade name or mark	SONAR	See drawing
Approval marks	5128	See drawing
LED module code	-	-
Electronic light source control gear code	-	-

DRAWINGS	
Reference	Version
SK1810(1811) PYR11-1	2019.07.30
SK1810(1811) PYR11-2	2019.07.30
SK1810(1811) PYR11-3	2019.07.30
SK1810(1811) PYR11-4	2019.07.30
SK1810(1811) PYR11-5	2019.07.30
SK1810(1811) PYR11-6	2019.07.30
SK1810(1811) PYR11-7	2019.07.30
SK1810(1811) PYR11-8	2019.07.30

(Null below)



AUTOMOTIVE certification
 Business Class Kantorenpark
 Jan Olieslagerslaan 35
 B-1800 Vilvoorde
 E-mail: homologation@vincotte.be
 2019.11.04



DRIVING DIRECTION

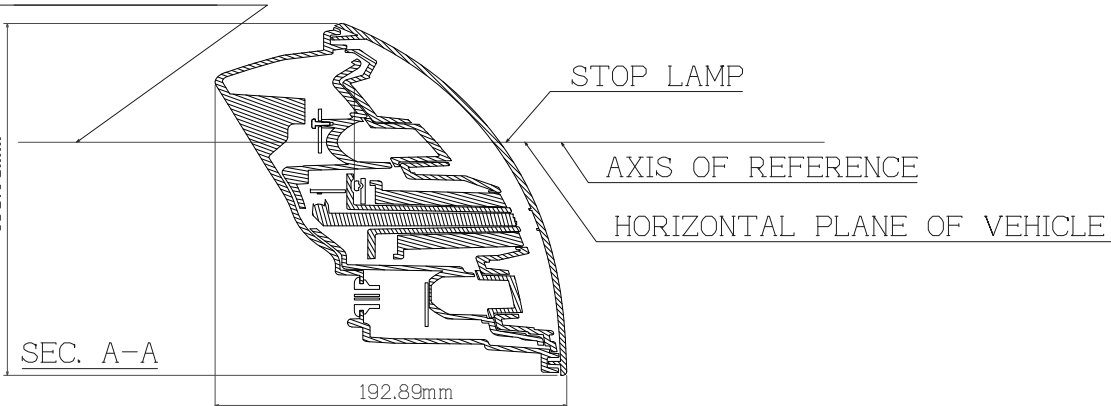


NOTE:

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30LED`s12V7.3W

193.03mm



STOP LAMP

AXIS OF REFERENCE

HORIZONTAL PLANE OF VEHICLE

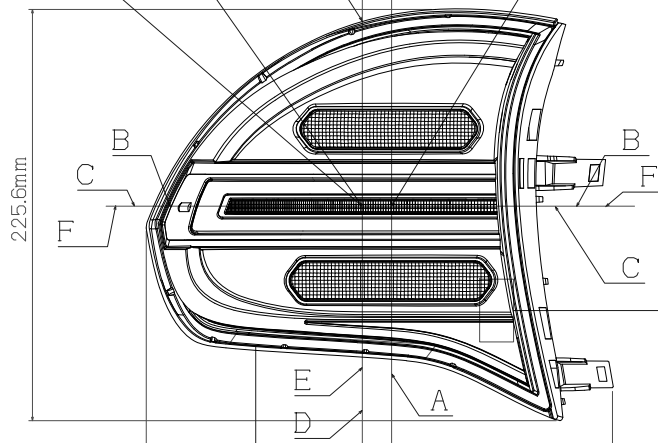
SEC. A-A

192.89mm

CENTER OF REFERENCE REAR POSITION LAMP (21LED`s12V3.1W)

CENTER OF REFERENCE (REAR DIRECTION INDICATOR 14LED`s12V16.8W)

CENTER OF REFERENCE STOP LAMP (30LED`s12V7.3W)



225.6mm

LH SONAR SK1811 PYR11

RH SONAR SK1810 PYR11

255.72mm

R1D-S1D
02
2aD
01
E6
5128

FOR LEFT

R1D-S1D
02
2aD
01
E6
5128

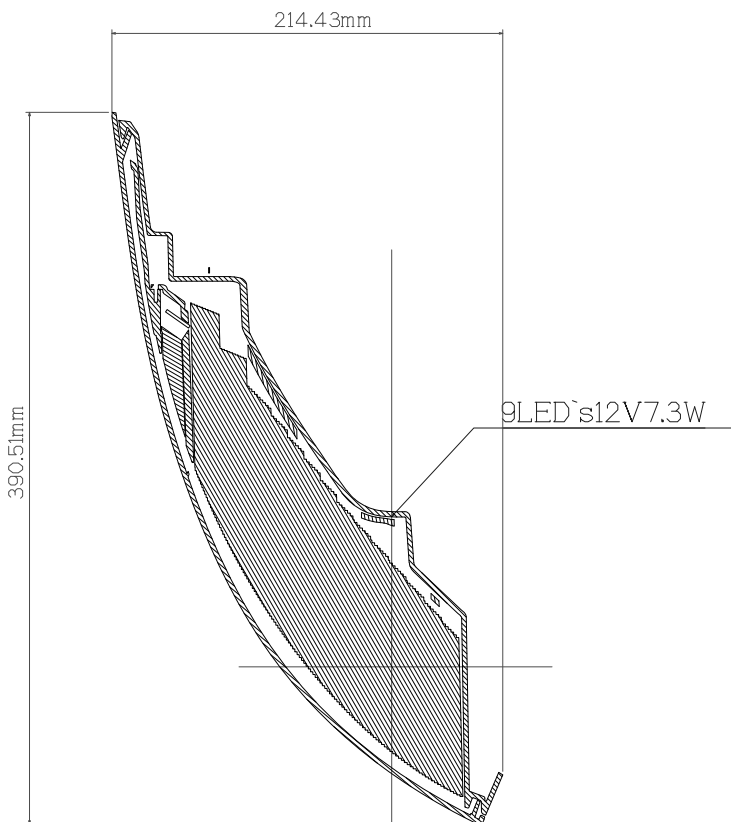
FOR RIGHT



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2019.11.04

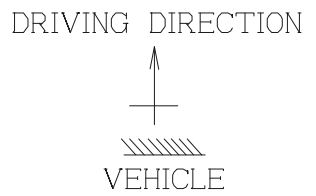
圖面比例: 1:1 UNIT:mm

COMPANY	SONAR AUTO PARTS CO., LTD	
MODEL NAME	SK1810(1811) PYR11-1	DATE:2019.07.30
FUNCTION	COMBINATION TAIL LAMP	



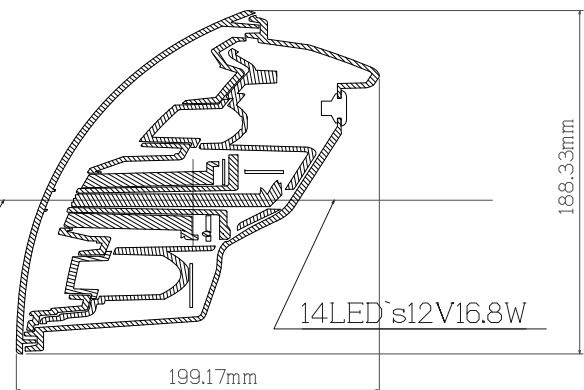
SEC. B-B

STOP LAMP
 AXIS OF REFERENCE
 LONGITUDINAL PLANE OF VEHICLE



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AXIS OF REFERENCE
 HORIZONTAL PLANE OF VEHICLE
 REAR DIRECTION INDICATOR



SEC. D-D

VINCOTTE
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 Business Class Kantorenpark
 Jan Olieslagerslaan 35
 B-1800 Vilvoorde
 E-mail: homologation@vincotte.be
 2019.11.04

圖面比例: 1:1 UNIT:mm



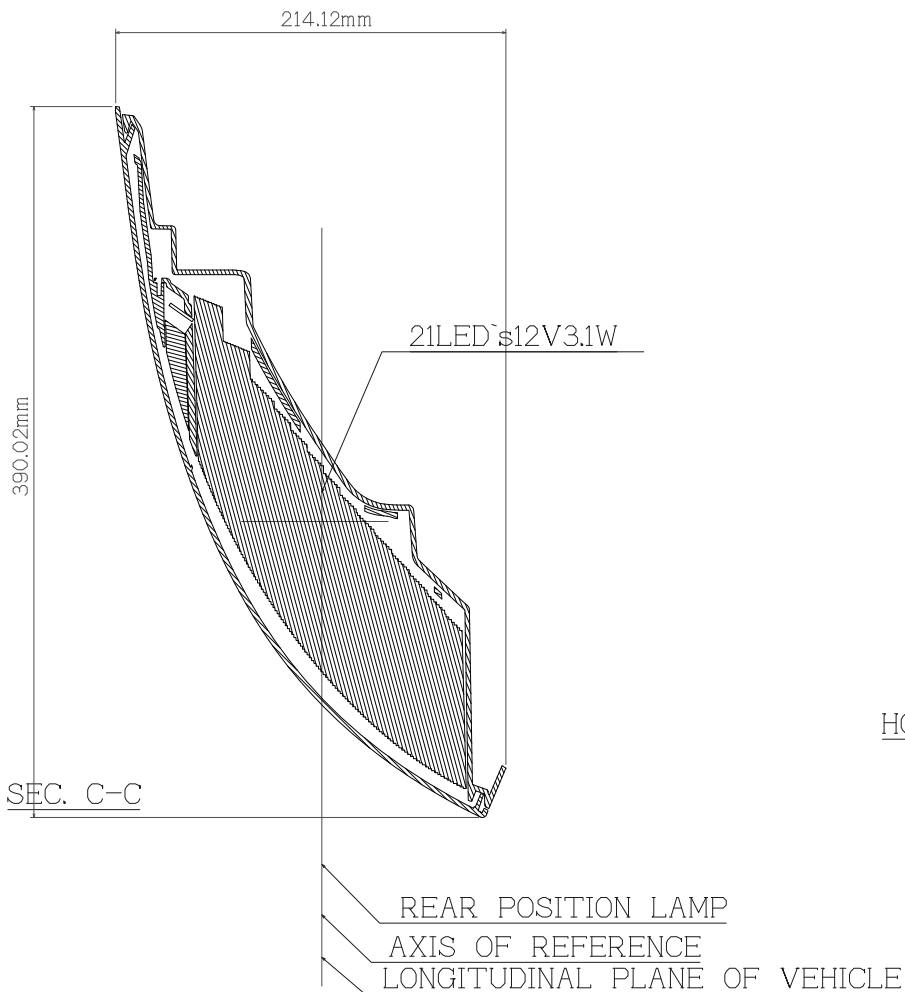
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MODEL NAME	SK1810(1811) PYR11-2	DATE:2019.07.30
FUNCTION	COMBINATION TAIL LAMP	

DRIVING DIRECTION

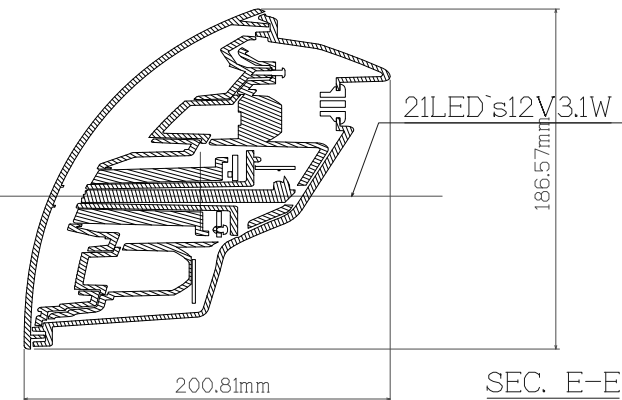


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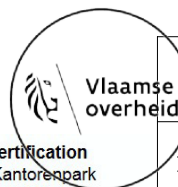
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HORIZONTAL PLANE OF VEHICLE
REAR POSITION LAMP
AXIS OF REFERENCE



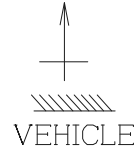
圖面比例: 1:1 UNIT:mm



AUTOMOTIVE certification
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Jan Olieslagerslaan 35
B-1800 Vilvoorde
E-mail: homologation@vincotte.be
2019.11.04

COMPANY	SONAR AUTO PARTS CO., LTD	
MODEL NAME	SK1810(1811) PYR11-3	DATE: 2019.07.30
FUNCTION	COMBINATION TAIL LAMP	

DRIVING DIRECTION

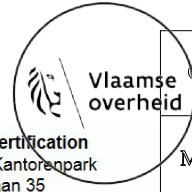


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圖面比例: 1:1 UNIT:mm



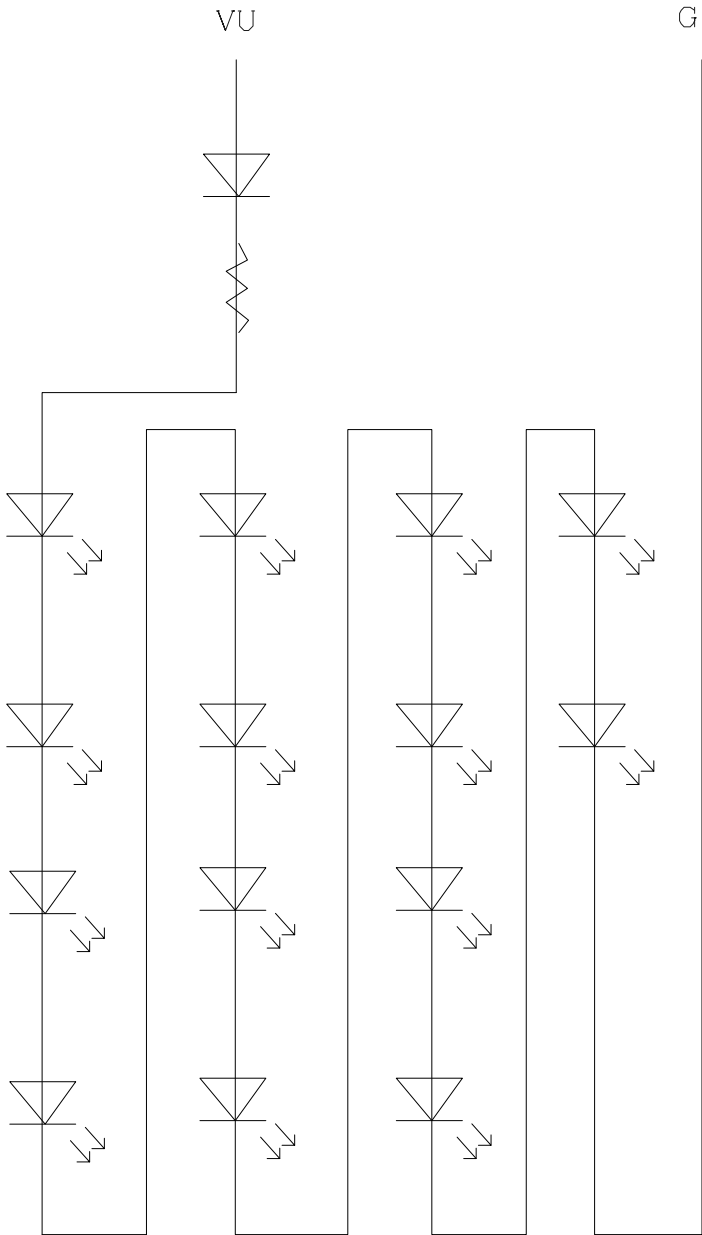
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 2019.11.04

COMPANY	SONAR AUTO PARTS CO., LTD	
MODEL NAME	SK1810(1811) PYR11-4	DATE:2019.07.30
FUNCTION	COMBINATION TAIL LAMP	

DRIVING DIRECTION

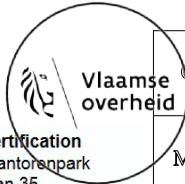


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CIRCUIT DIAGRAM OF REAR DIRECTION INDICATOR

圖面比例: 1:1 UNIT:mm



AUTOMOTIVE certification
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 Jan Olieslagerslaan 35
 B-1800 Vilvoorde
 E-mail: homologation@vincotte.be
 2019.11.04

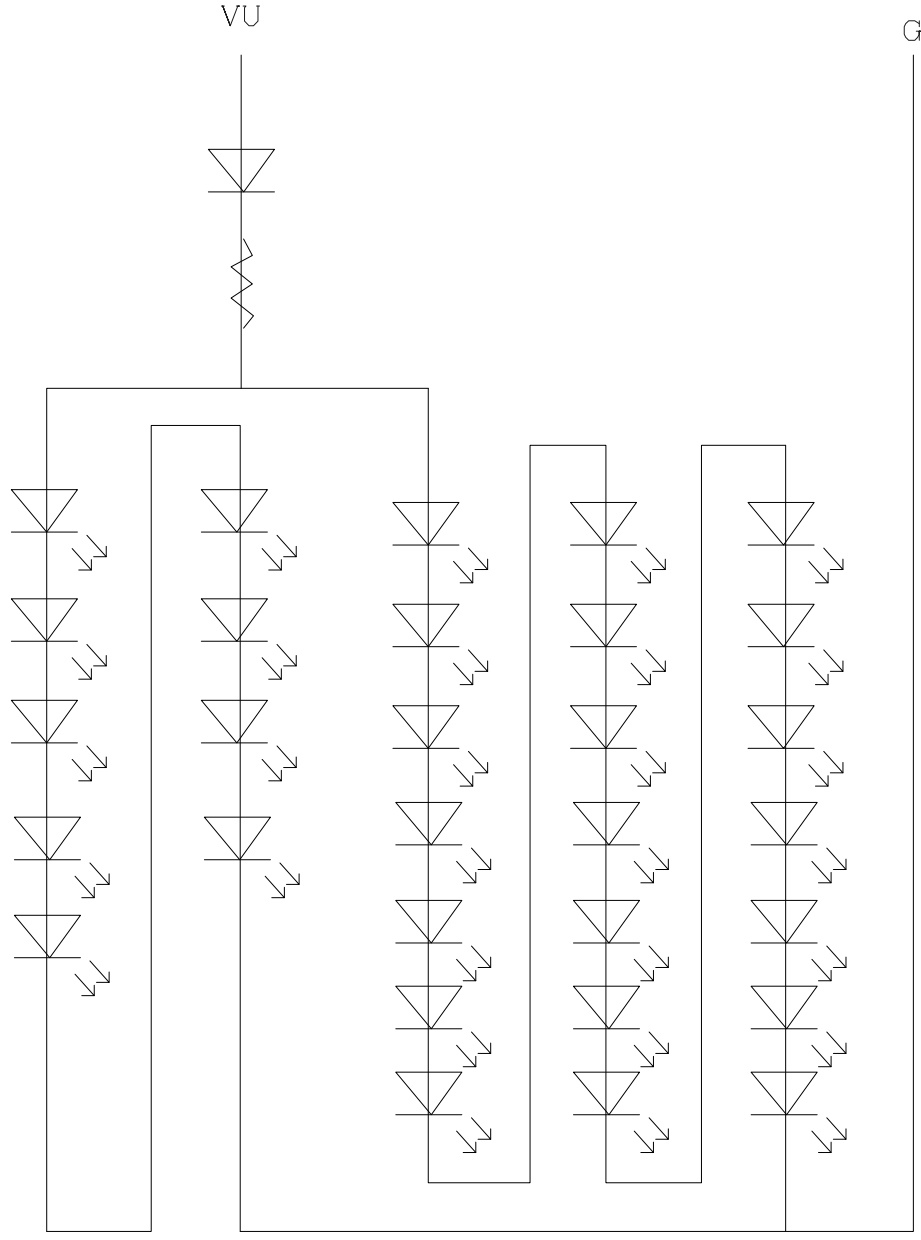
COMPANY	SONAR AUTO PARTS CO., LTD	
MODEL NAME	SK1810(1811) PYR11- 5	DATE:2019.07.30
FUNCTION	COMBINATION TAIL LAMP	

DRIVING DIRECTION



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(THERE ARE TWO KINDS OF SUB-REFLECTORS,ONE IS ELECTROPLATED AND THE OTHER IS BLACK)



CIRCUIT DIAGRAM OF STOP LAMP



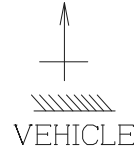
AUTOMOTIVE certification
 Business Class Kantorenpark
 Jan Olieslagerslaan 35
 B-1800 Vilvoorde
 E-mail: homologation@vincotte.be
 2019.11.04

圖面比例: 1:1 UNIT:mm



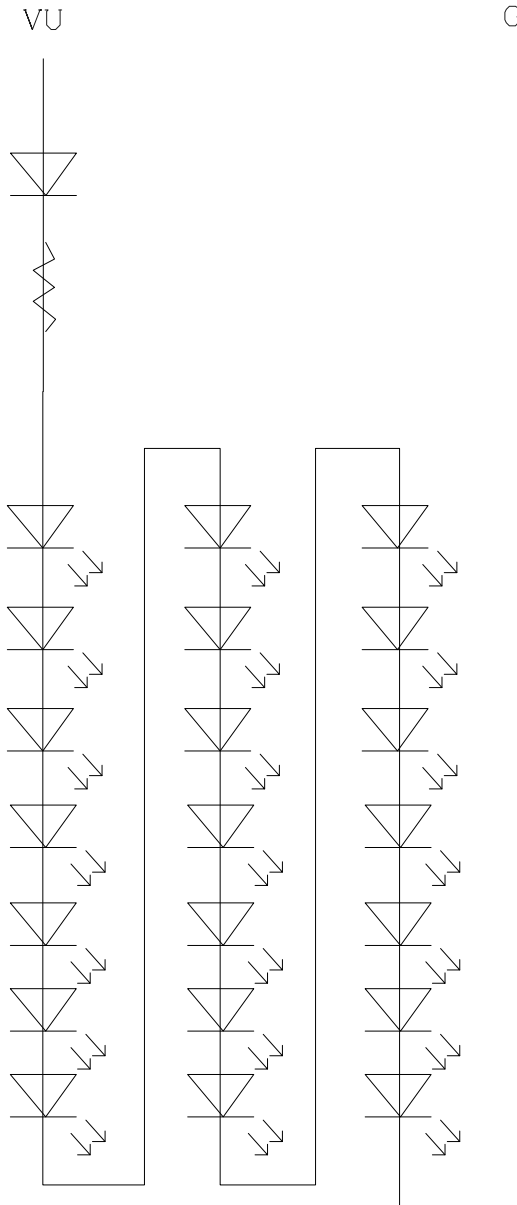
COMPANY	SONAR AUTO PARTS CO., LTD	
MODEL NAME	SK1810(1811) PYR11- 6	DATE:2019.07.30
FUNCTION	COMBINATION TAIL LAMP	

DRIVING DIRECTION



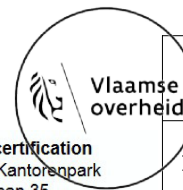
NOTE:

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CIRCUIT DIAGRAM OF REAR POSITION LAMP

圖面比例: 1:1 UNIT:mm



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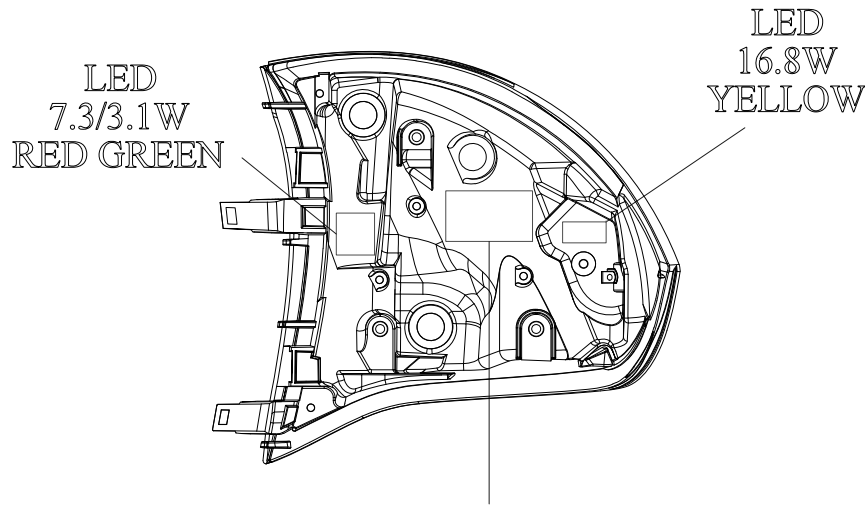
COMPANY	SONAR AUTO PARTS CO., LTD	
MODEL NAME	SK1810(1811) PYR11-7	DATE:2019.07.30
FUNCTION	COMBINATION TAIL LAMP	

DRIVING DIRECTION



NOTE:

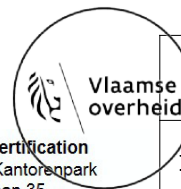
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SONAR SK1811 PYR11
MADE IN TAIWAN
LENS:PMMA
HSG:PC

12V ~~24V~~
LH

圖面比例: 1:1 UNIT:mm



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COMPANY	SONAR AUTO PARTS CO., LTD	
MODEL NAME	SK1810(1811) PYR11-8	DATE:2019.07.30
FUNCTION	COMBINATION TAIL LAMP	

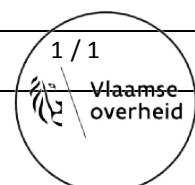
Index to the information package of a type approval with regard to a Regulation (UNECE) :

Last applicable Series of amendments	Base approval and update No	Extension No	Revision No	Issue date	Information document	
					Reference	Number of pages
R06-01	00	-	-	04.11.2019	SONAR SK1820(1821)-PYR11 / 00	9

Approved and to be attached to the approval certificate,

R. VERHELST

Updated Approval No:	E6*06R01/29*5129*00	BEVASYS :	201907154
Update No :	00	Issuedate :	04.11.2019





Communication concerning :

- Approval granted ⁽¹⁾
- ~~Approval extended~~ ⁽¹⁾
- ~~Approval refused~~ ⁽¹⁾
- ~~Approval withdrawn~~ ⁽¹⁾
- ~~Production definitively discontinued~~ ⁽¹⁾

of a type of direction indicator, pursuant to Regulation No.06

Approval No : E6*06R01/29*5129*00

Extension No : -

Approval mark :

R1D S1D
02 02
2aD
01
AR
00
F1
00

R1D S1D
02 02
2aD
01
AR
00
F1
00



←
5129
Left hand



→
5129
Right hand

1. Trade name or mark of device : SONAR
2. Manufacturer's name for the type of device : SK1820-PYR11, SK1821- PYR11
3. Manufacturer's name and address : Sonar Auto Parts Co., Ltd.
No. 427, Sec. 2, Wenhua Rd., Panchiao District,
New Taipei City, Taiwan, R.O.C.
4. If applicable, name and address of the manufacturer's representative : -
5. Submitted for approval on : 17.07.2019 ~ 22.08.2019
SUN-JET VISIBLE LIGHT LABORATORY.
6. Technical Service responsible for conducting approval test : Vincotte N.V.
Jan Olieslagerslaan 35
1800 Vilvoorde
Belgium
7. Date of test report issued by that service : 04.11.2019
8. Number of test report issued by that service : H1960667001/182

9.	Concise description :	See information document
	Category :	1, 1a, 1b , 2a, 2b , 5, 6 ⁽¹⁾
	Number, category :	9LEDs / 1 light source
	Function(s) produced by an interdependent lamp forming part of an interdependent lamps system :	-
	Voltage and wattage :	12V, 4.6W
	Light source module specific identification code :	-
	Only for limited mounting height of equal to or less than 750mm above the ground :	Yes / No ⁽¹⁾
	Geometrical conditions of installation and relating variations, if any :	See information document
	Application of an electronic light source control gear / variable intensity control :	
	(a) Being part of the lamp :	Yes / No ⁽¹⁾
	(b) Being not part of the lamp :	Yes / No ⁽¹⁾
	Input voltage(s) supplied by an electronic light source control gear / variable intensity control :	-
	Electronic light source control gear / variable intensity control manufacturer and identification number (when the light source control gear is part of the lamp but is not included into the lamp body) :	-
	Variable luminous intensity :	Yes / No ⁽¹⁾
	Sequential activation of light sources (see paragraph 5.6 of this Regulation) :	Yes / No ⁽¹⁾
10.	Position of approval mark :	On the lamp
11.	Reason(s) for extension (if applicable) :	Not applicable
12.	Approval granted / extended / refused / withdrawn ⁽¹⁾	

13. Place : Brussels
14. Date : 04.11.2019
15. Signature :

ON BEHALF OF THE SECRETARY-GENERAL:



R. VERHELST

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

(1) *Delete where not applicable*



VINÇOTTE nv

Registered office: Jan Olieslagerslaan 35 • 1800 Vilvoorde • Belgium

VAT BE 0462.513.222 • RPM/RPR Brussels • BNP Paribas Fortis: BE24 2100 4113 6338 • BIC: GEBABEBB

Jan Olieslagerslaan 35 • 1800 Vilvoorde • Belgium • phone: +32 2 674 57 11 • brussels@vincotte.be

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

1. **SUBJECT : DIRECTION INDICATORS**

R6-01

2. **REF. :** Report number : **H1960667001/182** No. of pages : 1 of 15 No. of annexes : -
Bevasys : 201907154 Approval No. : (5129 00) Update : 00

3. **GENERALITIES :**

Make of Device : SONAR

Commercial Type : -

Manufacturer's Type : SK1820-PYR11, SK1821- PYR11

Name and address of the manufacturer :

Sonar Auto Parts Co., Ltd.

No. 427, Sec. 2, Wenhua Rd., Panchiao District,

New Taipei City, Taiwan, R.O.C.

4. **TESTS :** Date and place : 2019.07.17 to 2019.08.22
SUN-JET VISIBLE LIGHT LABORATORY.
Applied document(s) : SONAR SK1820(1821)-PYR11 / 00
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. 6 incorporating supplement 29 to the 01 series of amendments.

The models presented comply with the requirements to be applied.

Date : 2019.11.04

Signature :



VINÇOTTE nv/sa
LU Wan-Ching
Automotive Certification



DESCRIPTION OF THE TESTED DIRECTION INDICATOR

- Direction indicator lamp type : Rear direction indicator*
- Direction indicator lamp category : 2aD
On devices SK1810(1811)–PYR11 and SK1820(1821)–PYR11 which were requested as part of an assembly of two lamps, comply with ECE R6 in paragraph 4.2.2.1 「lamp (single) marked “D” 」 requirement.
- Category and kind of light source(s) : LED
- Number of light source : 9LEDs / 1 light source
- Voltage and wattage : 12V, 4.6W

*There are two kinds of outer lens, one is clear, and the other is smoked.

GENERAL SPECIFICATIONS

Characteristics concerned and prescriptions to apply	References	Conformity	Not applied
The requirements contained in sections 5. "General specifications" and 6. "Individual specifications" and in the Annexes referenced in the said sections of Regulations Nos. 48, 53, 74 or 86, and their series of amendments in force at the time of application for the lamp type approval shall apply to this Regulation.	5.		
The requirements pertinent to each lamp and to the category/ies of vehicle on which the lamp is intended to be installed shall be applied, where its verification at the moment of lamp type approval is feasible.			
Each device supplied shall conform to the specifications set forth in § 6 and § 8 below.	5.1.	X	
The devices must be so designed and constructed that under 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.	5.2.	X	
In the case of light source modules, it shall be checked that :	5.3.		X
The design of the light source module(s) shall be such as	5.3.1.		
(a) that each light source module can only be fitted in no other position than the designated and correct one and can only be removed with the use of tool(s)			
(b) if there are more than one light source module used in the housing for a device, light source modules having different characteristics can not be interchanged within the same lamp housing			
The light source module(s) shall be tamperproof.	5.3.2.		
A light source module shall be so designed that regardless of the use of tool(s), it shall not be mechanically interchangeable with any replaceable approved light source	5.3.3		
In case of failure of the variable intensity control of a direction indicator of category 2b emitting more than the maximum value of category 2a, requirements of steady luminous intensity of category 2a shall be fulfilled automatically.	5.4		X
In the case of replaceable filament lamp(s) :	5.5.		X
The device shall only be equipped with light source(s) approved according to UN Regulation No. 37 and/or UN Regulation No. 128, provided that no restriction on the use is made in UN Regulation No. 37 and its series of amendments in force at the time of application for type approval or in UN Regulation No. 128 and its series of amendments in force at the time of application for type approval.	5.5.1.		
The design of the device shall be such that light source cannot be fixed in any other position but the correct one.	5.5.2.		
The light source holder shall conform to the characteristics given in IEC Publication 60061. The holder data sheet relevant to the category of light source used, applies.	5.5.3.		



Manufacturer name and address : **Sonar Auto Parts Co., Ltd.**
 No. 427, Sec. 2, Wenhua Rd., Panchiao District,
 New Taipei City, Taiwan, R.O.C.

Trade name or mark : **SONAR**

Type of device : **SK1820-PYR11, SK1821-PYR11**

SPECIFICATIONS



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 E-mail: homologation@vincotte.be
 2019.11.04

Function-Application-class category lamp and colour

Trade name or mark	SONAR					
Function	<i>Rear Direction Indicator</i> ⁽¹⁾	<i>Rear Position Lamp</i> ⁽¹⁾	<i>Stop Lamp</i> ⁽¹⁾	<i>Reversing Lamp</i> ⁽²⁾	<i>Rear Fog Lamp</i> ⁽²⁾	
ECE regulation	6-01 Supplement 29	7-02 Supplement 27	7-02 Supplement 27	23-00 Supplement 22	38-00 Supplement 19	
Class	-	-	-	-	-	
Category	2aD	R1D	S1D	AR	F1	
Number, category and kind of lamp source(s)	9LEDs / 1 light source	16LEDs / 1 light source	4LEDs / 1 light source	5LEDs / 1 light source	5LEDs / 1 light source	
Voltage and wattage	12V, 4.6W	12V, 1.0W	12V, 1.5W	12V, 2.8W	12V, 0.8W	
Electronic light source control gear						
- Being part of the lamp	-	-	-	-	-	
- Being not part of the lamp	-	-	-	-	-	
Lens	Outer version A	Clear	Red	Red	Clear	Red
	Outer version B	Smoked	Red	Red	Smoked	Red
	Outer version C	Clear	Clear	Clear	Clear	Clear
	Outer version D	Smoked	Smoked	Smoked	Smoked	Smoked
	Filter (inner)	Clear	White	Clear	Clear	Clear
Colour of light emitted	Amber	Red	Red	White	Red	

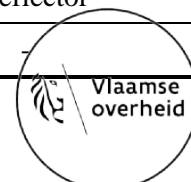
⁽¹⁾ On devices SK1810(1811)-PYR11 and SK1820(1821)-PYR11 which were requested as part of an assembly of two lamps, comply with ECE R6 in paragraph 4.2.2.1 and ECE R7 in paragraph 6 "lamp (single) marked "D" requirement.

⁽²⁾ Reversing lamp and rear fog lamp shall be installed in a pair of devices.

TECHNICAL DATA

Part	Material	Remark
Lens	Outer	PMMA
	Filter (Inner)	PC
Reflector	PC	Sub-reflector ⁽³⁾
Housing	PC	

⁽³⁾ There are two kinds of sub-reflectors, one is electroplated, and the other is black.



MARKING

Marking		Location
Trade name or mark	SONAR	See drawing
Approval marks	5129	See drawing
LED module code	-	-
Electronic light source control gear code	-	-

DRAWINGS	
Reference	Version
SK1820(1821)-PYR11-1	2019.08.16
SK1820(1821)-PYR11-2	2019.08.16
SK1820(1821)-PYR11-3	2019.08.16
SK1820(1821)-PYR11-4	2019.08.16
SK1820(1821)-PYR11-5	2019.08.16
SK1820(1821)-PYR11-6	2019.08.16

(Null below)



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DRIVING DIRECTION



NOTE:

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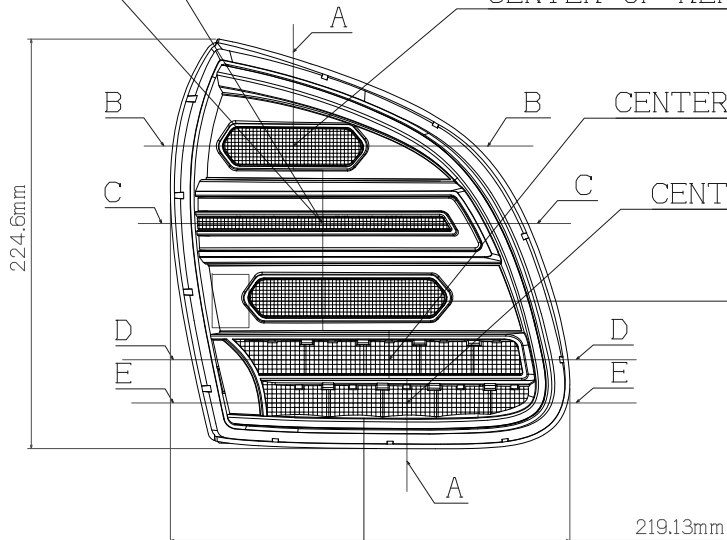
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CENTER OF REFERENCE (REAR DIRECTION INDICATOR (9LED`s12V4.6W)

CENTER OF REFERENCE STOP LAMP (4LED`s12V1.5W)

CENTER OF REFERENCE REVERSING LAMP (5LED`s12V2.8W)

CENTER OF REFERENCE REAR FOG LAMP (5LED`s12V0.8W)



RH SONAR SK1820 PYR11

LH SONAR SK1821 PYR11

R1D S1D
02 02
2aD
01
AR
00
F1
00
E6
5129
FOR LEFT

R1D S1D
02 02
2aD
01
AR
00
F1
00
E6
5129
FOR RIGHT

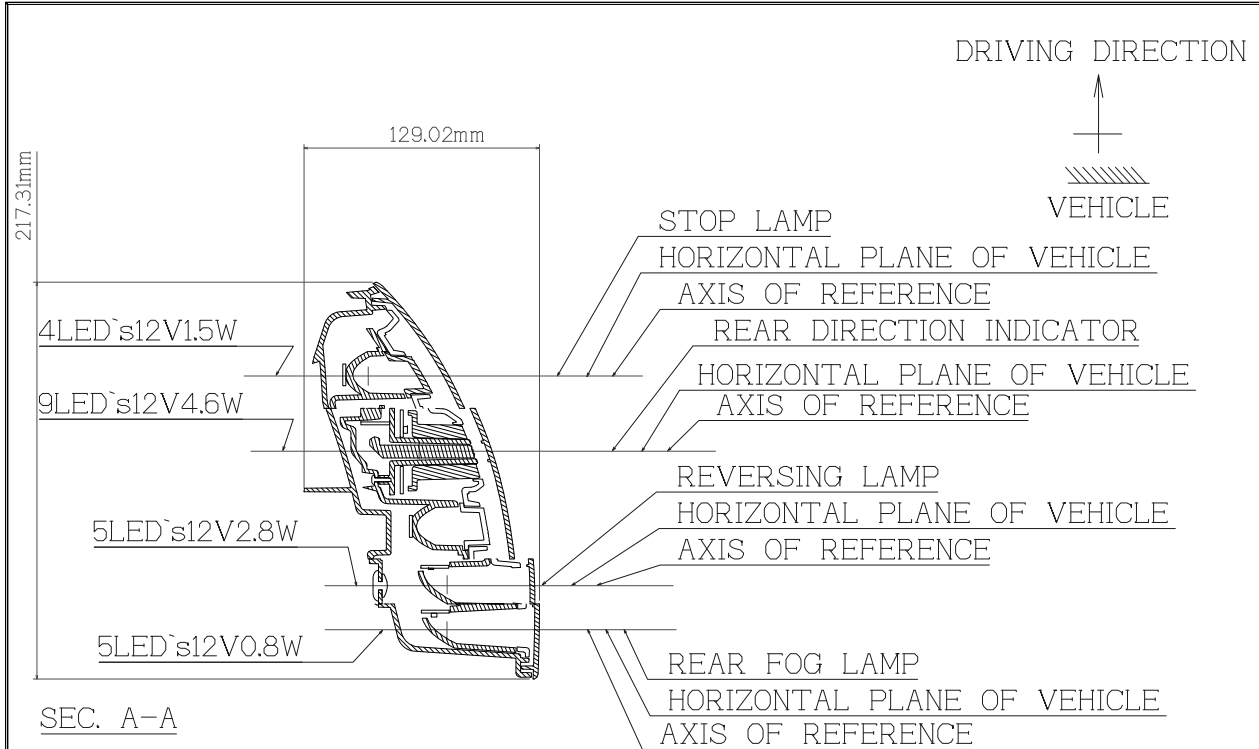


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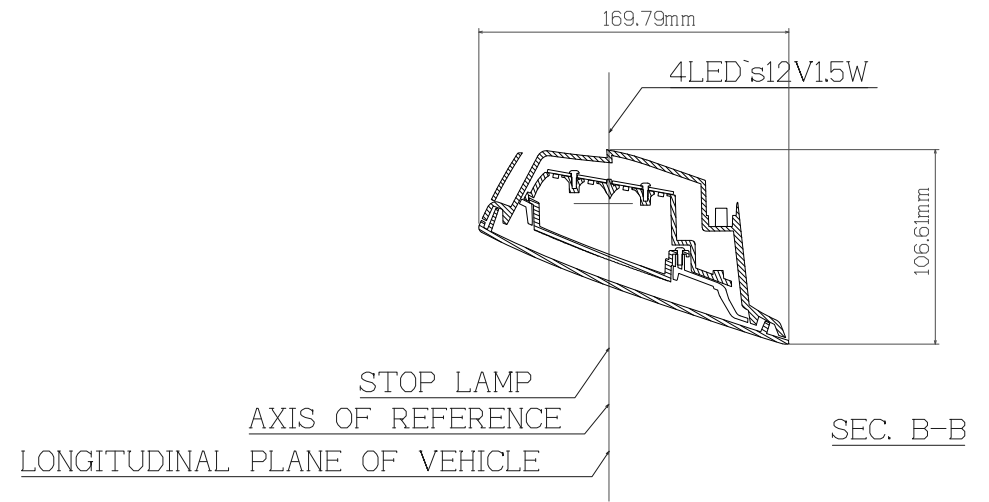
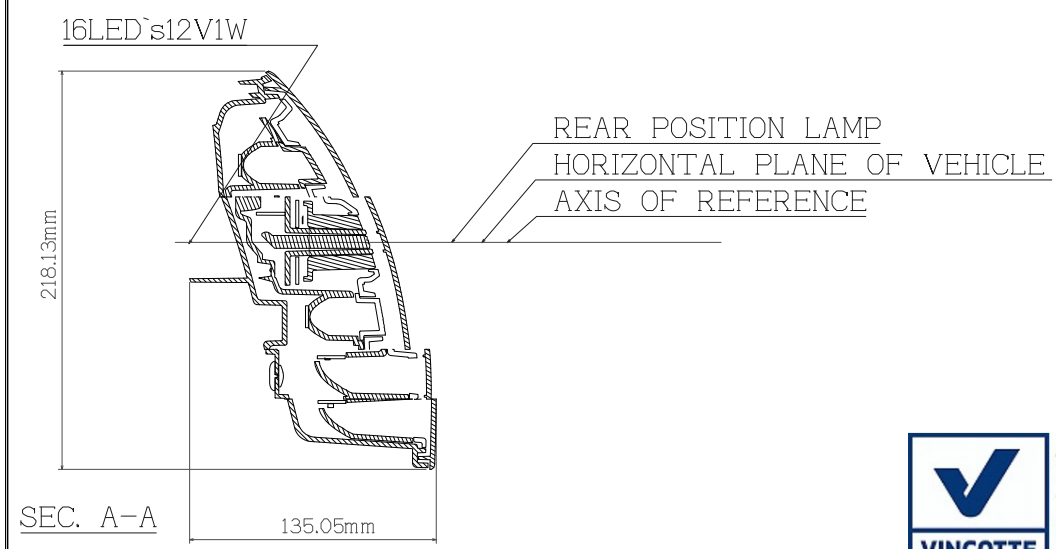


COMPANY	SONAR AUTO PARTS CO., LTD	
MODEL NAME	SK1820(1821) PYR11-1	DATE:2019.08.16
FUNCTION	COMBINATION TAIL LAMP	

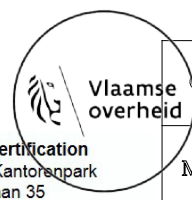


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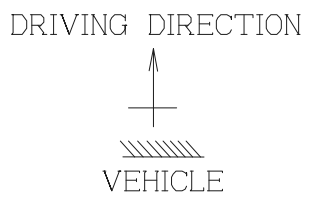
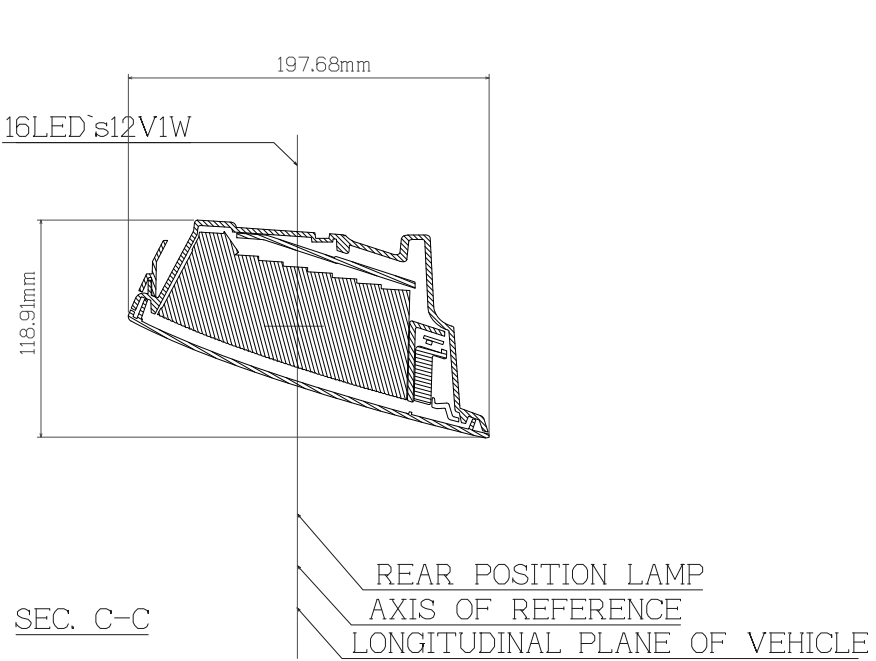


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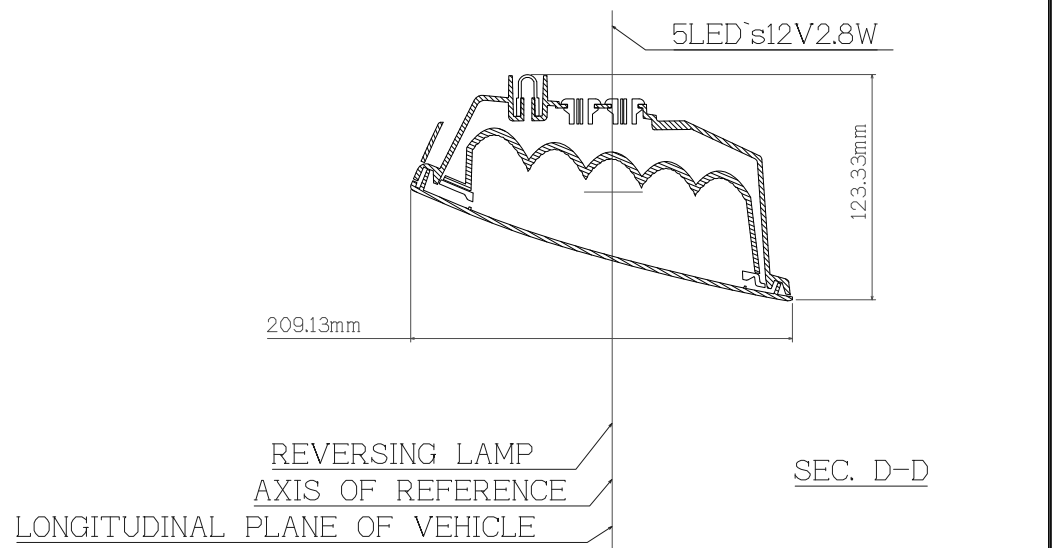
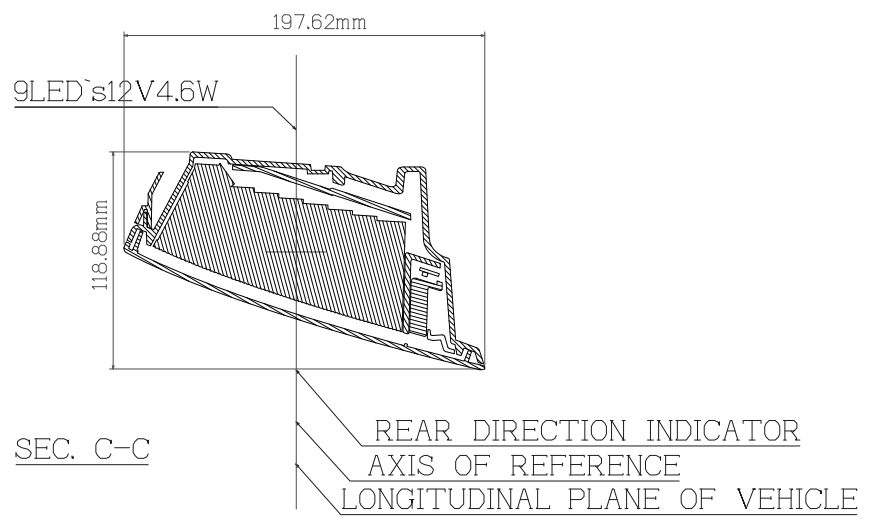


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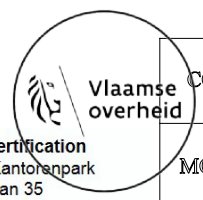
COMPANY	SONAR AUTO PARTS CO., LTD	
MODEL NAME	SK1820(1821) PYR11-2	DATE:2019.08.16
FUNCTION	COMBINATION TAIL LAMP	



NOTE:
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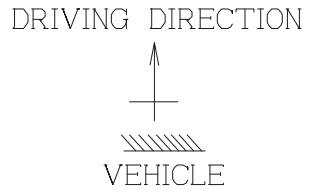
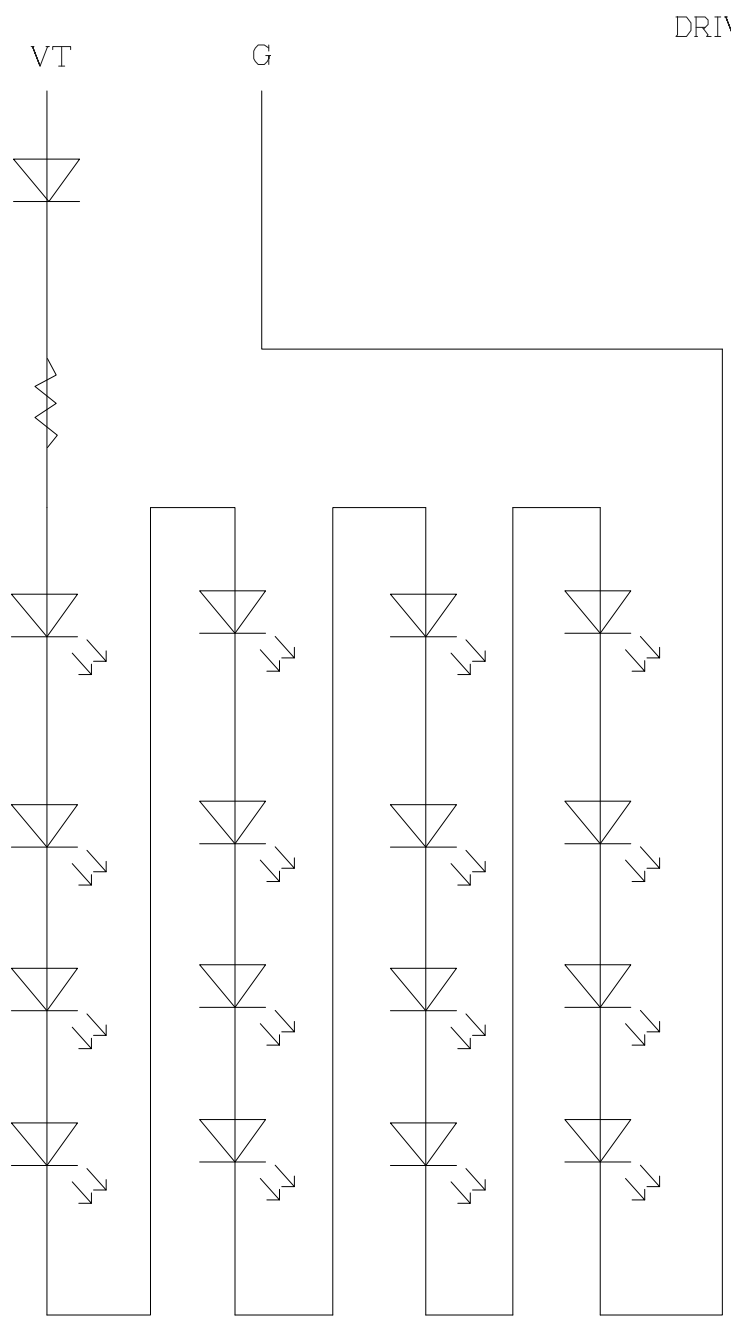


圖面比例: 1:1 UNIT:mm

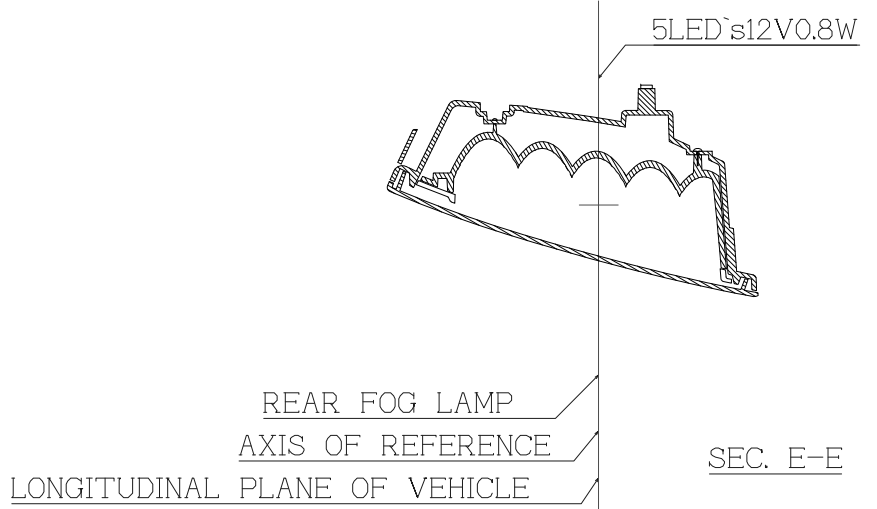


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 2019.11.04

COMPANY	SONAR AUTO PARTS CO., LTD	
MODEL NAME	SK1820(1821) PYR11-3	DATE:2019.08.16
FUNCTION	COMBINATION TAIL LAMP	

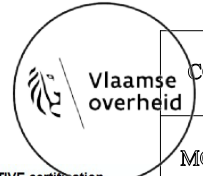


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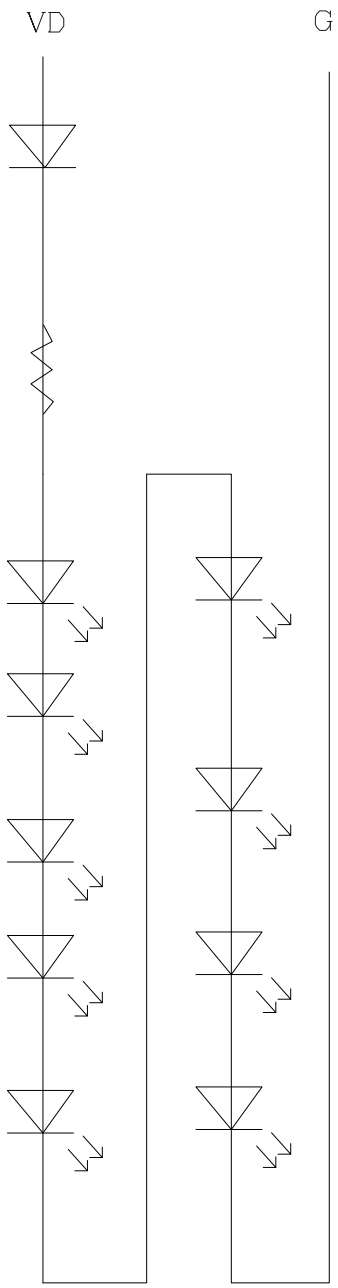
圖面比例: 1:1 UNIT:mm

CIRCUIT DIAGRAM OF REAR POSITION LAMP

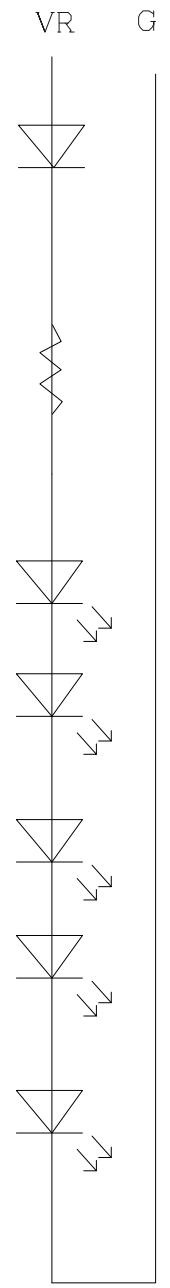


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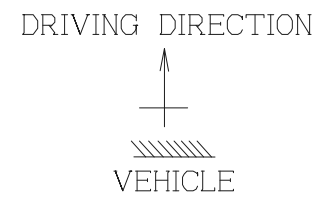
COMPANY	SONAR AUTO PARTS CO., LTD	
MODEL NAME	SK1820(1821) PYR11-4	DATE:2019.08.16
FUNCTION	COMBINATION TAIL LAMP	



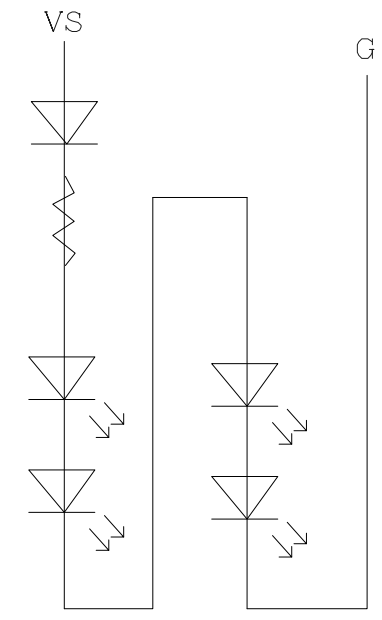
CIRCUIT DIAGRAM OF REAR DIRECTION INDICATOR



CIRCUIT DIAGRAM OF REVERSING LAMP

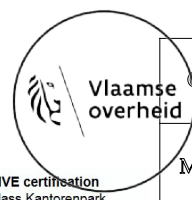


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CIRCUIT DIAGRAM OF STOP LAMP

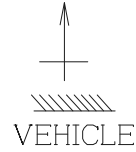
圖面比例: 1:1 UNIT:mm



COMPANY	SONAR AUTO PARTS CO., LTD	
MODEL NAME	SK1820(1821) PYR11-5	DATE:2019.08.16
FUNCTION	COMBINATION TAIL LAMP	

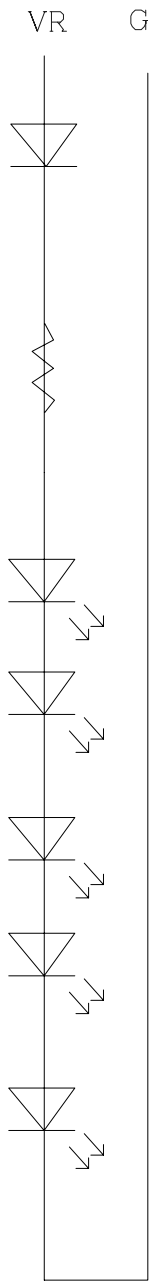


DRIVING DIRECTION

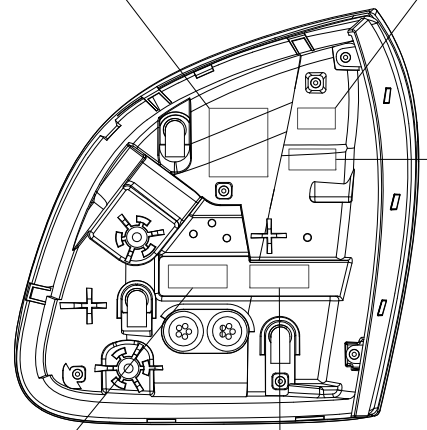


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SONAR SK1821 PYR11
 MADE IN TAIWAN
 LENS: PMMA
 HSG: PC
 12V ~~24V~~
 LH



LED
 1.5/1W
 RED GREEN

LED
 4.6W
 YELLOW

LED
 0.8W
 BLUE

LED
 2.8W
 WHITE

CIRCUIT DIAGRAM OF REAR FOG LAMP



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圖面比例: 1:1 UNIT:mm



COMPANY	SONAR AUTO PARTS CO., LTD	
MODEL NAME	SK1820(1821) PYR11-6	DATE: 2019.08.16
FUNCTION	COMBINATION TAIL LAMP	

Index to the information package of a type approval with regard to a Regulation (UNECE) :

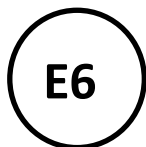
Last applicable Series of amendments	Base approval and update No	Extension No	Revision No	Issue date	Information document	
					Reference	Number of pages
R07-02	00	-	-	04.11.2019	SONAR SK1820(1821)-PYR11 / 00	9

Approved and to be attached to the approval certificate,



R. VERHELST

Updated Approval No:	E6*07R02/27*5129*00	BEVASYS :	201907155
Update No :	00	Issuedate :	04.11.2019



Communication concerning :

- Approval granted ⁽¹⁾
- ~~Approval extended ⁽¹⁾~~
- ~~Approval refused ⁽¹⁾~~
- ~~Approval withdrawn ⁽¹⁾~~
- ~~Production definitively discontinued ⁽¹⁾~~

of a type of device, pursuant to Regulation No.07

Approval No : E6*07R02/27*5129*00 Extension No : -

Approval mark :

R1D S1D
02 02
2aD
01
AR
00
F1
00

R1D S1D
02 02
2aD
01
AR
00
F1
00



←
5129
Left hand



→
5129
Right hand

1. Trade name or mark of device : SONAR
2. Manufacturer's name for the type of device : SK1820-PYR11, SK1821- PYR11
3. Manufacturer's name and address : Sonar Auto Parts Co., Ltd.
No. 427, Sec. 2, Wenhua Rd., Panchiao District,
New Taipei City, Taiwan, R.O.C.
4. If applicable, name and address of the manufacturer's representative : -
5. Submitted for approval on : 25.06.2019 ~ 22.08.2019
SUN-JET VISIBLE LIGHT LABORATORY.
6. Technical Service responsible for conducting approval test: Vincotte N.V.
Jan Olieslagerslaan 35
1800 Vilvoorde
Belgium
7. Date of report issued by that Service: 04.11.2019
8. Number of report issued by that Service : H1960667001/183

BEVASYS : 201907155

R07-02

9.	Concise description :	See information document
9.1.	By category of lamp :	R1D, S1D
	For mounting either outside or inside or both ⁽¹⁾	
	Colour of light emitted :	White / Red ⁽¹⁾
	Number, category and kind of light source(s) :	16LEDs / 1 light source for rear position lamp 4LEDs / 1 light source for stop lamp
	Voltage and wattage :	12V, 1.0W for rear position lamp 12V, 1.5W for stop lamp
	Light source module specific identification code :	-
	Only for limited mounting height of equal to or less than 750mm above the ground :	Yes / No ⁽¹⁾
	Geometrical conditions of installation and relating variations, if any :	See information document
	Application of an electronic light source control gear / variable intensity control :	
	(a) Being part of the lamp :	Yes / No ⁽¹⁾
	(b) Being not part of the lamp :	Yes / No ⁽¹⁾
	Input voltage(s) supplied by an electronic light source control gear / variable intensity control :	-
	Electronic light source control gear/variable intensity control manufacturer and identification number (when the light source control gear is part of the lamp but is not included into the lamp body) :	-
	Variable luminous intensity :	Yes / No ⁽¹⁾
	The front position lamp, rear position lamp, stop lamp, end-outline marker lamp ⁽¹⁾ is only for use on a vehicle fitted with a tell-tale indicating failure :	Yes / No ⁽¹⁾
9.2.	Function(s) produced by an interdependent lamp forming part of an interdependent lamp system :	
	Front position lamp :	Yes / No ⁽¹⁾
	R1 Rear position lamp :	Yes / No ⁽¹⁾
	R2 Rear position lamp :	Yes / No ⁽¹⁾
	S1 Stop lamp :	Yes / No ⁽¹⁾
	S2 Stop lamp :	Yes / No ⁽¹⁾
	S3 Stop lamp :	Yes / No ⁽¹⁾
	S4 Stop lamp :	Yes / No ⁽¹⁾
	End-outline marker lamp :	Yes / No ⁽¹⁾
10.	Position of approval mark :	On the lamp
11.	Reason(s) for extension (if applicable) :	Not applicable
12.	Approval granted / extended / refused / withdrawn ⁽¹⁾	

13. Place : Brussels
14. Date : 04.11.2019
15. Signature :

ON BEHALF OF THE SECRETARY-GENERAL:



R. VERHELST

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

(1) *Strike out what does not apply*



VINÇOTTE nv

Registered office: Jan Olieslagerslaan 35 • 1800 Vilvoorde • Belgium

VAT BE 0462.513.222 • RPM/RPR Brussels • BNP Paribas Fortis: BE24 2100 4113 6338 • BIC: GEBABEBB

Jan Olieslagerslaan 35 • 1800 Vilvoorde • Belgium • phone: +32 2 674 57 11 • brussels@vincotte.be

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

1. **SUBJECT : FRONT AND REAR POSITION (SIDE) LAMPS
STOP-LAMPS
END-OUTLINE MARKER LAMPS**

R7-02

2. **REF. :** Report number : **H1960667001/183** No. of pages : 1 of 19 No. of annexes : -
Bevasys : 201907155 Approval No. : (5129 00) Update : 00

3. **GENERALITIES :**

Make of Device : SONAR

Commercial Type : -

Manufacturer's Type : SK1820-PYR11, SK1821-PYR11

Name and address of the manufacturer :

Sonar Auto Parts Co., Ltd.

No. 427, Sec. 2, Wenhua Rd., Panchiao District,

New Taipei City, Taiwan, R.O.C.

4. **TESTS :** Date and place : 2019.06.25 to 2019.08.22
SUN-JET VISIBLE LIGHT LABORATORY.
Applied document(s) : SONAR SK1820(1821)-PYR11 / 00
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. 7 incorporating supplement 27 to the 02 series of amendments.

The models presented comply with the requirements to be applied.

Date : 2019.11.04

Signature :



VINÇOTTE nv/sa
LU Wan-Ching
Automotive Certification



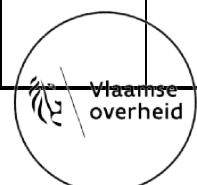
DESCRIPTION OF THE TESTED LAMP

- Lamp type : Rear position lamp, stop lamp*
- Lamp category : R1D, S1D
On devices SK1810(1811) – PYR11 and SK1820(1821) – PYR11 which were requested as part of an assembly of two lamps, comply with ECE R7 in paragraph 6 "lamp (single) marked "D" requirement.
- Category and kind of light source(s) : LED
- Number of light source(s) : 16LEDs / 1 light source for rear position lamp
4LEDs / 1 light source for stop lamp
- Voltage and wattage : 12V, 1.0W for rear position lamp
12V, 1.5W for stop lamp

*There are three kinds of outer lens, one is clear, another is smoked, and the other is red.

GENERAL SPECIFICATIONS

Characteristics concerned and prescriptions to apply	References	Conformity	Not applied
The requirements contained in sections 5. "General specifications" and 6. "Individual specifications" and in the Annexes referenced in the said sections of Regulations Nos. 48, 53, 74 or 86, and their series of amendments in force at the time of application for the lamp type approval shall apply to this Regulation.	5.		
The requirements pertinent to each lamp and to the category/ies of vehicle on which the lamp is intended to be installed shall be applied, where its verification at the moment of lamp type approval is feasible.			
Each device supplied shall conform to the specifications set forth in § 6 and 8 below.	5.1.	X	
The devices 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.	5.2.	X	
Lamps having been approved as front or rear position lamps, are deemed being also approved end-outline marker lamps.	5.3.		X
Front and rear position lamps which are grouped or combined or reciprocally incorporated may also be used as end-outline marker lamps.	5.4.		X
Position lamps, which are reciprocally incorporated with another function, using a common light source, and designed to operate permanently with an additional system to regulate the intensity of the light emitted, are permitted.	5.5.		X
However, in the case of rear position lamp reciprocally incorporated with a stop lamp, the device shall either: (a) Be a part of a multiple light source arrangement, or (b) Be intended for use in a vehicle equipped with a failure monitoring system for that function. In either case, a note shall be made within the communication document.	5.5.1.		
In the case of light source modules, it shall be checked that:	5.6.		X
The design of the light source module(s) shall be such as: (a) That each light source module can only be fitted in no other position than the designated and correct one and can only be removed with the use of tool(s); (b) If there are more than one light source module used in the housing for a device, light source modules having different characteristics can not be interchanged within the same lamp housing.	5.6.1.		



Manufacturer name and address : **Sonar Auto Parts Co., Ltd.**
 No. 427, Sec. 2, Wenhua Rd., Panchiao District,
 New Taipei City, Taiwan, R.O.C.

Trade name or mark : **SONAR**

Type of device : **SK1820-PYR11, SK1821-PYR11**

SPECIFICATIONS



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Function-Application-class category lamp and colour

Trade name or mark	SONAR					
Function	<i>Rear Direction Indicator</i> ⁽¹⁾	<i>Rear Position Lamp</i> ⁽¹⁾	<i>Stop Lamp</i> ⁽¹⁾	<i>Reversing Lamp</i> ⁽²⁾	<i>Rear Fog Lamp</i> ⁽²⁾	
ECE regulation	6-01 Supplement 29	7-02 Supplement 27	7-02 Supplement 27	23-00 Supplement 22	38-00 Supplement 19	
Class	-	-	-	-	-	
Category	2aD	R1D	S1D	AR	F1	
Number, category and kind of lamp source(s)	9LEDs / 1 light source	16LEDs / 1 light source	4LEDs / 1 light source	5LEDs / 1 light source	5LEDs / 1 light source	
Voltage and wattage	12V, 4.6W	12V, 1.0W	12V, 1.5W	12V, 2.8W	12V, 0.8W	
Electronic light source control gear						
- Being part of the lamp	-	-	-	-	-	
- Being not part of the lamp	-	-	-	-	-	
Lens	Outer version A	Clear	Red	Red	Clear	Red
	Outer version B	Smoked	Red	Red	Smoked	Red
	Outer version C	Clear	Clear	Clear	Clear	Clear
	Outer version D	Smoked	Smoked	Smoked	Smoked	Smoked
	Filter (inner)	Clear	White	Clear	Clear	Clear
Colour of light emitted	Amber	Red	Red	White	Red	

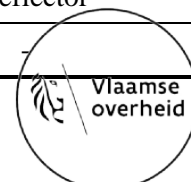
⁽¹⁾ On devices SK1810(1811)-PYR11 and SK1820(1821)-PYR11 which were requested as part of an assembly of two lamps, comply with ECE R6 in paragraph 4.2.2.1 and ECE R7 in paragraph 6 "lamp (single) marked "D" requirement.

⁽²⁾ Reversing lamp and rear fog lamp shall be installed in a pair of devices.

TECHNICAL DATA

Part	Material	Remark
Lens	Outer	PMMA
	Filter (Inner)	PC
Reflector	PC	Sub-reflector ⁽³⁾
Housing	PC	

⁽³⁾ There are two kinds of sub-reflectors, one is electroplated, and the other is black.



MARKING

Marking		Location
Trade name or mark	SONAR	See drawing
Approval marks	5129	See drawing
LED module code	-	-
Electronic light source control gear code	-	-

DRAWINGS	
Reference	Version
SK1820(1821)-PYR11-1	2019.08.16
SK1820(1821)-PYR11-2	2019.08.16
SK1820(1821)-PYR11-3	2019.08.16
SK1820(1821)-PYR11-4	2019.08.16
SK1820(1821)-PYR11-5	2019.08.16
SK1820(1821)-PYR11-6	2019.08.16

(Null below)



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DRIVING DIRECTION



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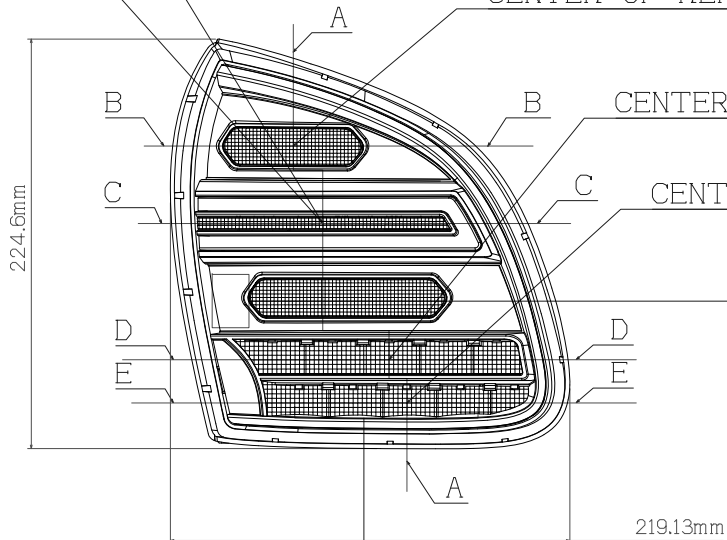
CENTER OF REFERENCE REAR POSITION LAMP (16LED`s12V1W)

CENTER OF REFERENCE (REAR DIRECTION INDICATOR (9LED`s12V4.6W)

CENTER OF REFERENCE STOP LAMP (4LED`s12V1.5W)

CENTER OF REFERENCE REVERSING LAMP (5LED`s12V2.8W)

CENTER OF REFERENCE REAR FOG LAMP (5LED`s12V0.8W)



RH SONAR SK1820 PYR11

LH SONAR SK1821 PYR11

R1D S1D
02 02
2aD
01
AR
00
F1
00
E6
5129
FOR LEFT

R1D S1D
02 02
2aD
01
AR
00
F1
00
E6
5129
FOR RIGHT

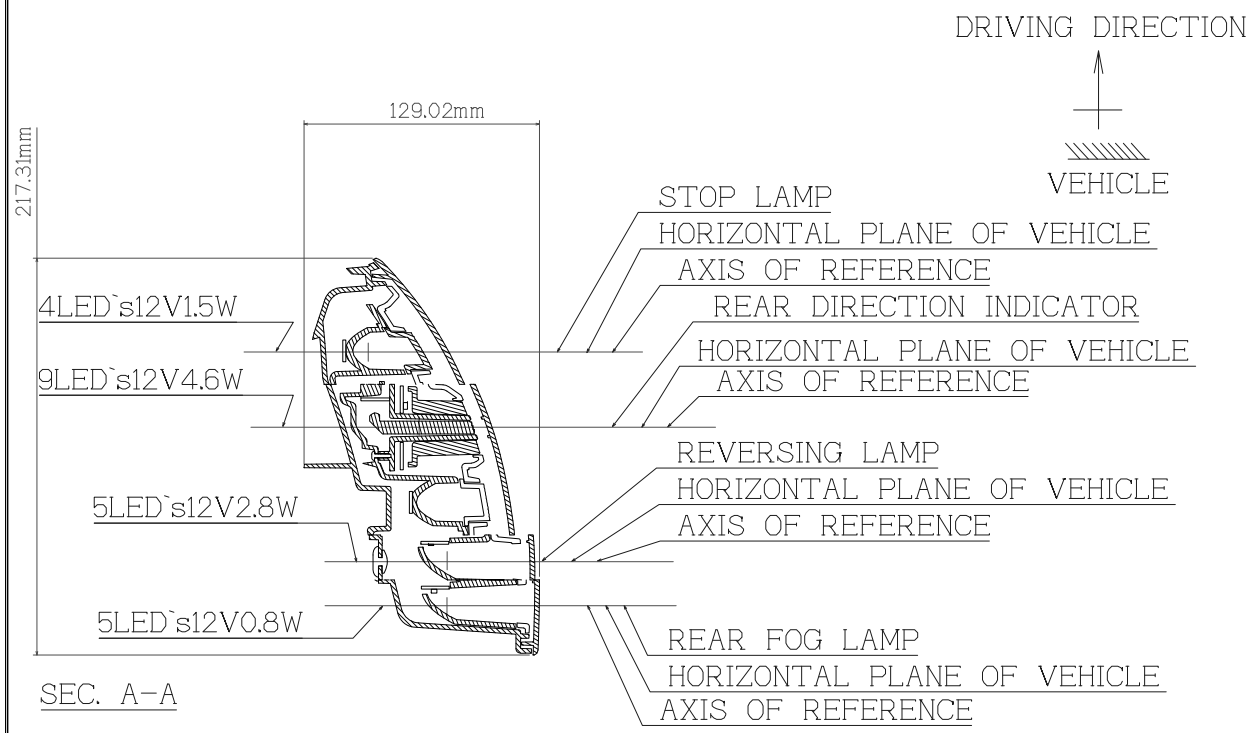


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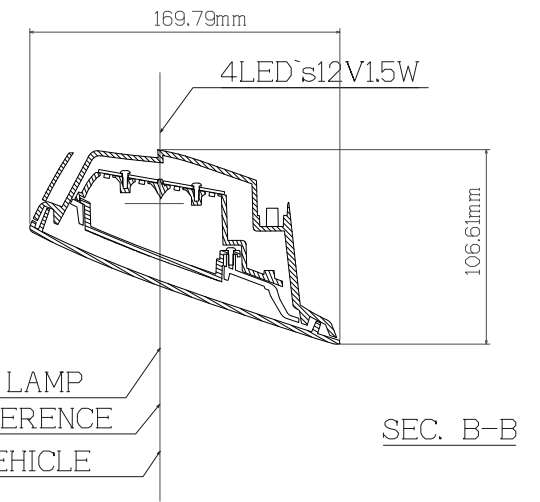


COMPANY	SONAR AUTO PARTS CO., LTD	
MODEL NAME	SK1820(1821) PYR11-1	DATE:2019.08.16
FUNCTION	COMBINATION TAIL LAMP	

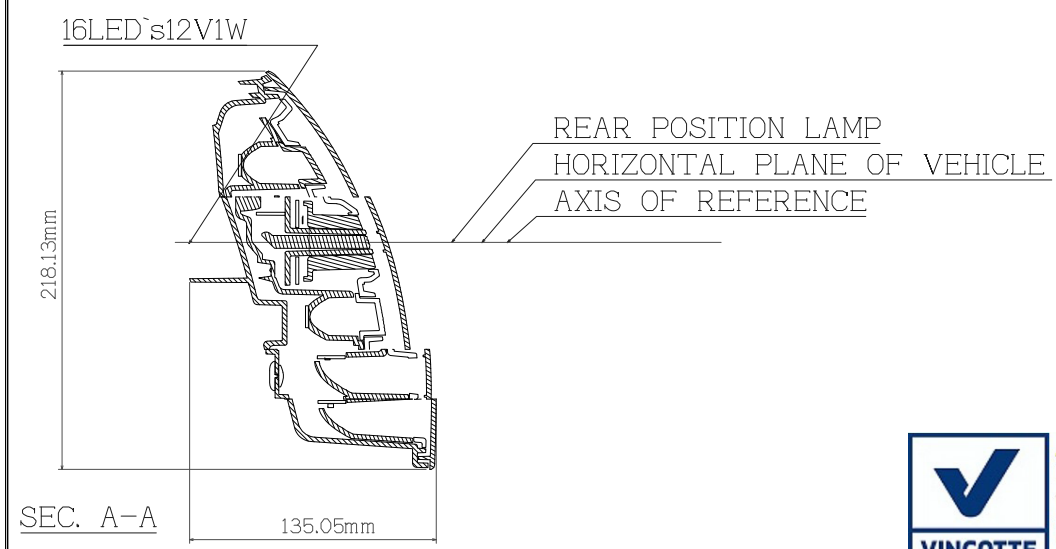


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SEC. A-A

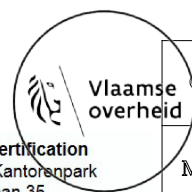


SEC. B-B



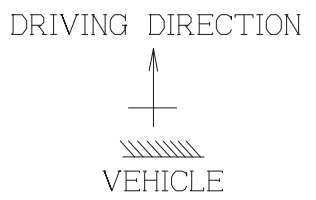
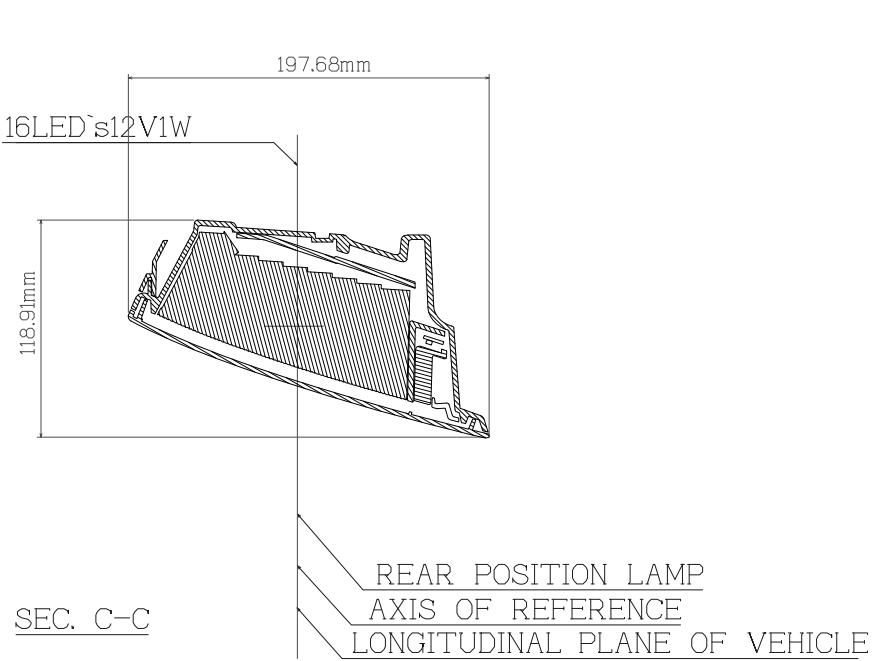
SEC. A-A

圖面比例: 1:1 UNIT:mm

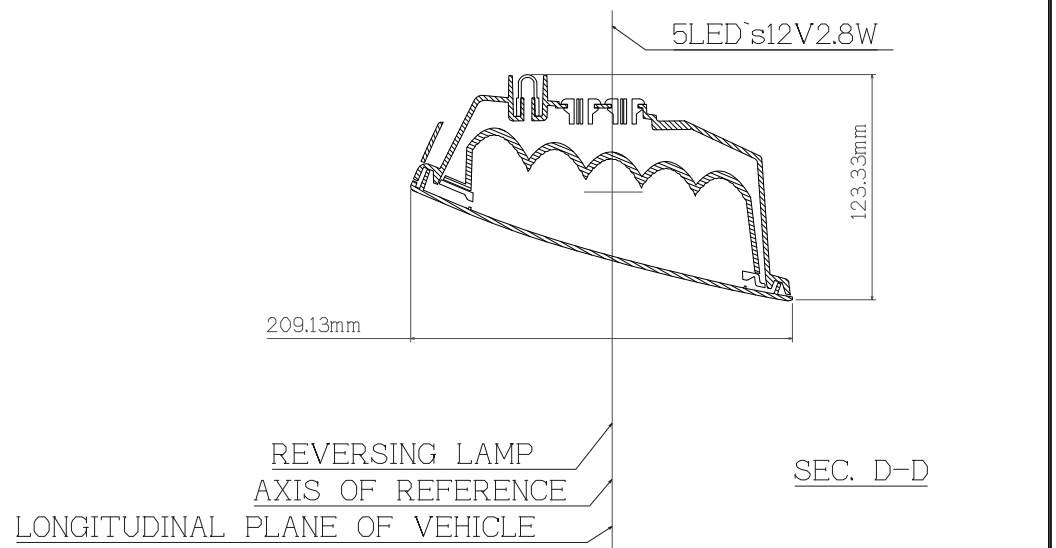
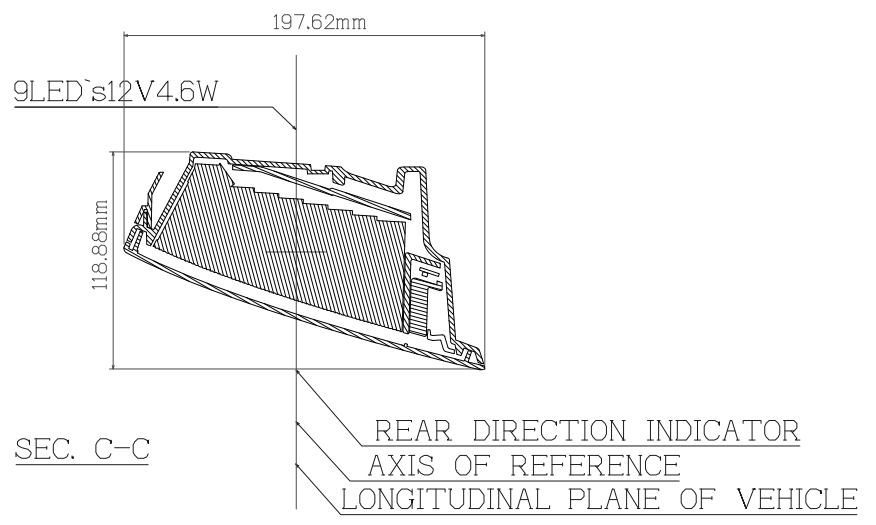


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COMPANY	SONAR AUTO PARTS CO., LTD	
MODEL NAME	SK1820(1821) PYR11-2	DATE: 2019.08.16
FUNCTION	COMBINATION TAIL LAMP	



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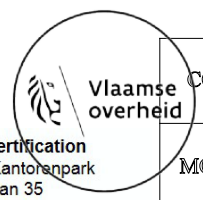
圖面比例: 1:1 UNIT:mm

SEC. C-C
 REAR DIRECTION INDICATOR
 AXIS OF REFERENCE
 LONGITUDINAL PLANE OF VEHICLE

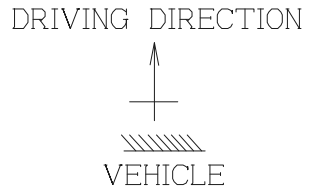
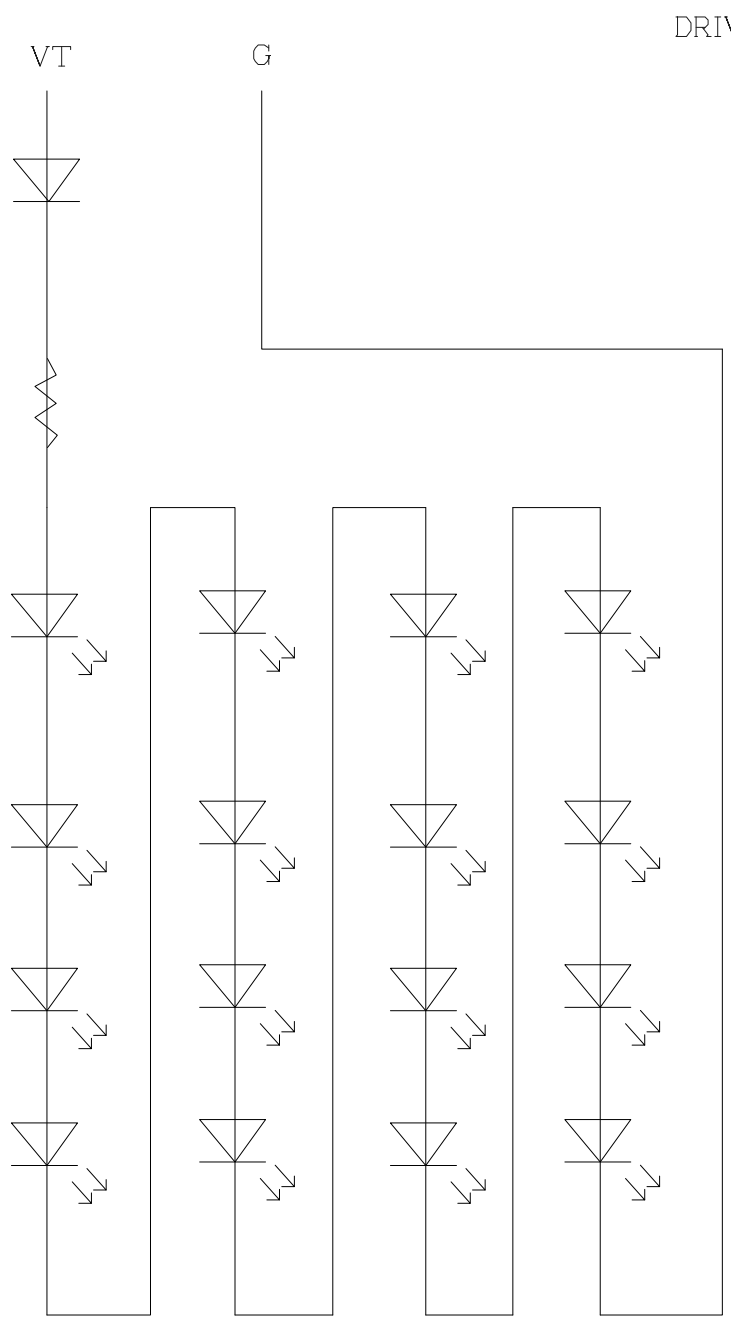
REVERSING LAMP
 AXIS OF REFERENCE
 LONGITUDINAL PLANE OF VEHICLE
 SEC. D-D



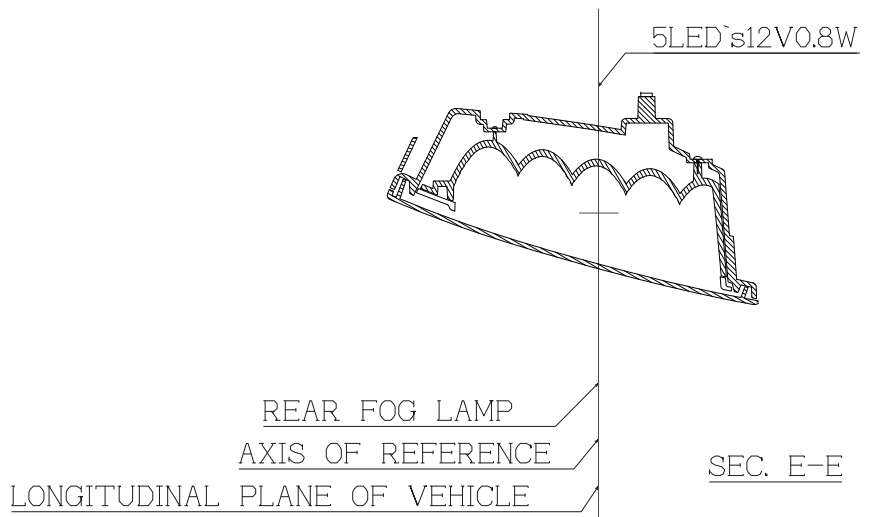
AUTOMOTIVE certification
 Business Class Kantorenpark
 Jan Olieslagerslaan 35
 B-1800 Vilvoorde
 E-mail: homologation@vincotte.be
 2019.11.04



COMPANY	SONAR AUTO PARTS CO., LTD	
MODEL NAME	SK1820(1821) PYR11-3	DATE:2019.08.16
FUNCTION	COMBINATION TAIL LAMP	



NOTE:
 1. THIS DRAWING SHALL BE APPLIED FOR LEFT SIDE ONLY,THE RIGHT SIDE SHALL BE SYMMETRICAL
 2. THE LENS IS FIXED TO HOUSING BY USING GLUE AND CLIPS.
 3.VERSION A:CLEAR OUTER LENS(REAR DIRECTION LAMP,REVERSING LAMP)RED OUTER LENS(REAR POSITION LAMP,STOP LAMP,REAR FOG LAMP) (THERE ARE TWO KINDS OF SUB-REFLECTORS,ONE IS ELECTROPLATED AND THE OTHER IS BLACK)
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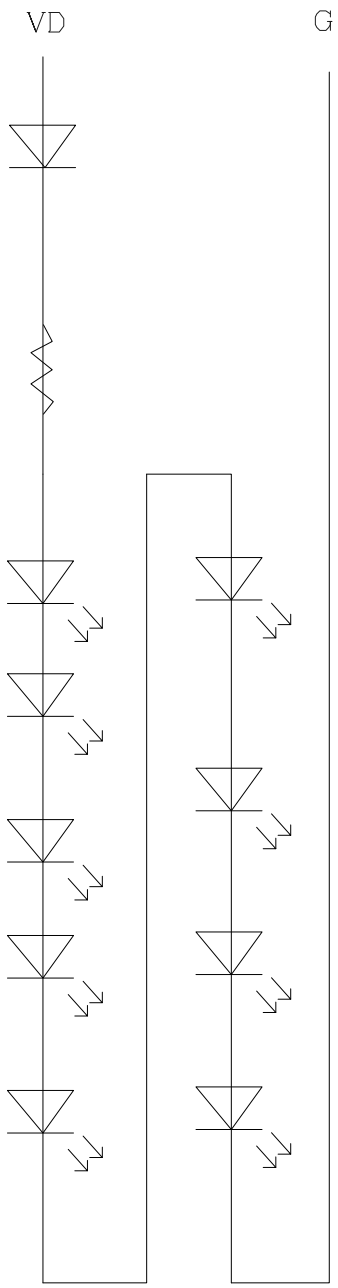
圖面比例: 1:1 UNIT:mm

CIRCUIT DIAGRAM OF REAR POSITION LAMP

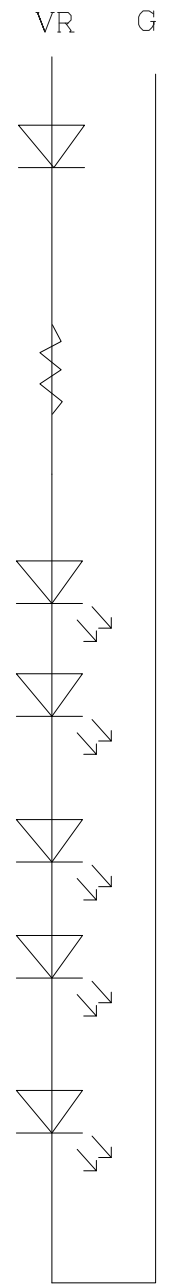


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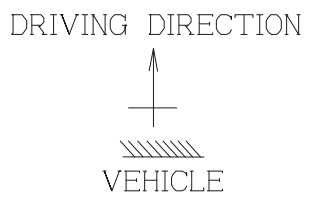
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MODEL NAME	SK1820(1821) PYR11-4	DATE:2019.08.16
FUNCTION	COMBINATION TAIL LAMP	



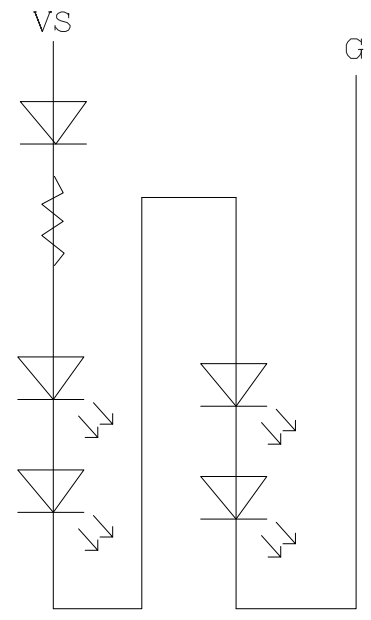
CIRCUIT DIAGRAM OF REAR DIRECTION INDICATOR



CIRCUIT DIAGRAM OF REVERSING LAMP

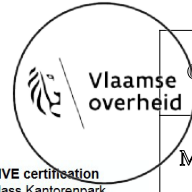


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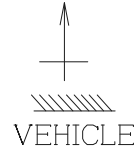
CIRCUIT DIAGRAM OF STOP LAMP

圖面比例: 1:1 UNIT:mm



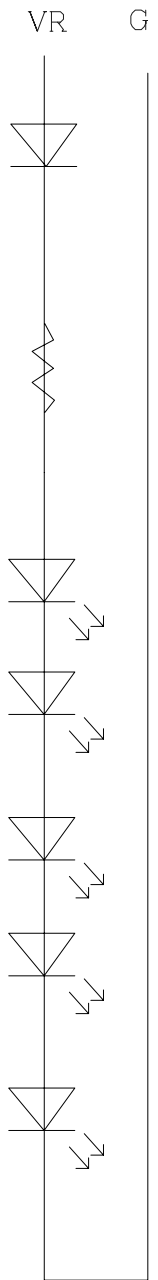
COMPANY	SONAR AUTO PARTS CO., LTD	
MODEL NAME	SK1820(1821) PYR11-5	DATE:2019.08.16
FUNCTION	COMBINATION TAIL LAMP	

DRIVING DIRECTION

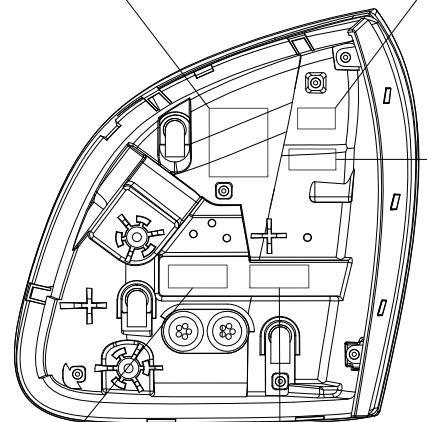


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SONAR SK1821 PYR11
 MADE IN TAIWAN
 LENS:PMMA
 HSG:PC
 12V ~~24V~~
 LH



LED
 1.5/1W
 RED GREEN

LED
 4.6W
 YELLOW

LED
 0.8W
 BLUE

LED
 2.8W
 WHITE

CIRCUIT DIAGRAM OF REAR FOG LAMP



AUTOMOTIVE certification
 Business Class Kantorenpark
 Jan Olieslagerslaan 35
 B-1800 Vilvoorde
 E-mail: homologation@vincotte.be
 2019.11.04

圖面比例: 1:1 UNIT:mm



COMPANY	SONAR AUTO PARTS CO., LTD	
MODEL NAME	SK1820(1821) PYR11-6	DATE:2019.08.16
FUNCTION	COMBINATION TAIL LAMP	

Index to the information package of a type approval with regard to a Regulation (UNECE) :

Last applicable Series of amendments	Base approval and update No	Extension No	Revision No	Issue date	Information document	
					Reference	Number of pages
R23-00	00	-	-	04.11.2019	SONAR SK1820(1821)-PYR11 / 00	9

Approved and to be attached to the approval certificate,

R. VERHELST

Updated Approval No:	E6*23R00/22*5129*00	BEVASYS :	201907156
Update No :	00	Issuedate :	04.11.2019





Communication concerning :

- ~~Approval granted~~ ⁽¹⁾
- ~~Approval extended~~ ⁽¹⁾
- ~~Approval refused~~ ⁽¹⁾
- ~~Approval withdrawn~~ ⁽¹⁾
- ~~Production definitively discontinued~~ ⁽¹⁾

**of a type of reversing lamp, pursuant to Regulation No.23
of a type of manoeuvring lamp, pursuant to Regulation No.23**

Approval No : E6*23R00/22*5129*00 Extension No : -

Approval mark :	R1D S1D	R1D S1D
	02 02	02 02
	2aD	2aD
	01	01
	AR	AR
	00	00
	F1	F1
	00	00



←
5129
Left hand



→
5129
Right hand

- | | |
|---|---|
| 1. Trade name or mark of the device : | SONAR |
| 2. Manufacturer's name for the type of device : | SK1820-PYR11, SK1821- PYR11 |
| 3. Manufacturer's name and address : | Sonar Auto Parts Co., Ltd.
No. 427, Sec. 2, Wenhua Rd., Panchiao
District,
New Taipei City, Taiwan, R.O.C. |
| 4. If applicable, name and address of the manufacturer's representative : | - |
| 5. Submitted for approval on : | 15.08.2019 ~ 22.08.2019
SUN-JET VISIBLE LIGHT LABORATORY |
| 6. Technical Service responsible for conducting approval test: | Vincotte N.V.
Jan Olieslagerslaan 35
1800 Vilvoorde
Belgium |
| 7. Date of test report issued by that Service : | 04.11.2019 |
| 8. Number of test report issued by that Service: | H1960667001/184 |

BEVASYS : 201907156 R23-00

9.	Concise description:	See information document
	Number, category and kind of light source(s) :	5LEDs / 1 light source
	Voltage and wattage :	12V, 2.8W
	Application of an electronic light source control gear :	
	(a) Being part of the lamp:	Yes / No ⁽¹⁾
	(b) Being not part of the lamp :	Yes / No ⁽¹⁾
	Input voltage(s) supplied by an electronic light source control gear :	-
	Electronic light source control gear manufacturer and identification number (when the light source control gear is part of the lamp but is not included into the lamp body):	-
	Light source module :	Yes / No ⁽¹⁾
	Light source module specific identification code :	-
	Geometrical conditions of installation and relating variations; if any:	See information document
	For a type of manoeuvring lamp pursuant to Regulation No. 23 paragraph 6.2.2. Maximum mounting height :	-
	The lamp is only for use on a vehicle fitted with a tell-tale indicating failure:	Yes / No ⁽¹⁾
10.	Position of approval mark :	On the lamp
11.	Comments :	
	In the case of a reversing lamp, this device shall be installed on a vehicle only as part of a pair of devices:	Yes / No ⁽¹⁾
12.	Reason(s) for extension (if applicable) :	Not applicable
13.	Approval granted / extended / refused / withdrawn ⁽¹⁾	

14. Place : Brussels
15. Date : 04.11.2019
16. Signature :

ON BEHALF OF THE SECRETARY-GENERAL:



A handwritten signature in blue ink, reading 'R. Verhelst'.

R. VERHELST

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

(1) *Strike out which does not apply*



VINÇOTTE nv

Registered office: Jan Olieslagerslaan 35 • 1800 Vilvoorde • Belgium
VAT BE 0462.513.222 • RPM/RPR Brussels • BNP Paribas Fortis: BE24 2100 4113 6338 • BIC: GEBABEBB
Jan Olieslagerslaan 35 • 1800 Vilvoorde • Belgium • phone: +32 2 674 57 11 • brussels@vincotte.be

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

1. **SUBJECT : REVERSING LIGHTS**

R23-00

2. REF. :	Report number : H1960667001/184	No. of pages : 1 of 12	No. of annexes : -
	Bevasys : 201907156	Approval No. : (5129 00)	Update : 00

3. **GENERALITIES :**

Make of Device : SONAR

Commercial Type : -

Manufacturer's Type : SK1820-PYR11, SK1821-PYR11

Name and address of the manufacturer :

Sonar Auto Parts Co., Ltd.
No. 427, Sec. 2, Wenhua Rd., Panchiao District,
New Taipei City, Taiwan, R.O.C.

4. **TESTS :** Date and place : 2019.08.15 to 2019.08.22
SUN-JET VISIBLE LIGHT LABORATORY

Applied document(s) : SONAR SK1820(1821)-PYR11 / 00

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. 23 incorporating supplement 22 to the original version.

The models presented comply with the requirements to be applied.

Date : 2019.11.04

Signature :



VINÇOTTE nv/sa
LU Wan-Ching
Automotive Certification



DESCRIPTION OF THE TESTED REVERSING LAMP

Reversing lamp type : Reversing Lamp
Reversing lamp shall be installed in a pair of device.

Category and kind of light source(s) : LED

Number of light source(s) : 5LEDs / 1 light source

Voltage and wattage : 12V, 2.8W

GENERAL SPECIFICATIONS

Characteristics concerned and prescriptions to apply	References	Conformity	Not applied
<p>The requirements contained in sections 5. "General specifications" and 6. "Individual specifications" and in the Annexes referenced in the said sections of Regulations Nos. 48 or 86, and their series of amendments in force at the time of application for the lamp type approval shall apply to this Regulation.</p> <p>The requirements pertinent to each lamp and to the category/ies of vehicle on which the lamp is intended to be installed shall be applied, where its verification at the moment of lamp type approval is feasible.</p> <p>Each sample shall conform to the specifications set forth in the paragraphs below.</p> <p>Reversing lamps shall be so designed and constructed that in normal use, despite the vibration to which they may then be subjected, they continue to function satisfactorily and retain the characteristics prescribed by this Regulation.</p> <p>In the case of light source modules, it shall be checked that :</p> <p>The design of the light source module(s) shall be such as :</p> <p>(a) that each light source module can only be fitted in no other position than the designated and correct one and can only be removed with the use of tool(s);</p> <p>(b) if there are more than one light source module used in the housing for a device, light source modules having different characteristics can not be interchanged within the same lamp housing.</p> <p>The light source module(s) shall be tamperproof.</p> <p>A light source module shall be so designed that regardless of the use of tool(s), it shall not be mechanically interchangeable with any replaceable approved light source.</p>	<p>5.</p> <p>5.1.</p> <p>5.2.</p> <p>5.3.</p> <p>5.3.1.</p> <p>5.3.2.</p> <p>5.3.3.</p>	<p>X</p> <p>X</p> <p>X</p>	<p>X</p>

Manufacturer name and address : **Sonar Auto Parts Co., Ltd.**
 No. 427, Sec. 2, Wenhua Rd., Panchiao District,
 New Taipei City, Taiwan, R.O.C.

Trade name or mark : **SONAR**

Type of device : **SK1820-PYR11, SK1821-PYR11**

SPECIFICATIONS



AUTOMOTIVE certification
 Business Class Kantorenpark
 Jan Olieslagerslaan 35
 B-1800 Vilvoorde
 E-mail: homologation@vincotte.be
 2019.11.04

Function-Application-class category lamp and colour

Trade name or mark	SONAR					
Function	<i>Rear Direction Indicator</i> ⁽¹⁾	<i>Rear Position Lamp</i> ⁽¹⁾	<i>Stop Lamp</i> ⁽¹⁾	<i>Reversing Lamp</i> ⁽²⁾	<i>Rear Fog Lamp</i> ⁽²⁾	
ECE regulation	6-01 Supplement 29	7-02 Supplement 27	7-02 Supplement 27	23-00 Supplement 22	38-00 Supplement 19	
Class	-	-	-	-	-	
Category	2aD	R1D	S1D	AR	F1	
Number, category and kind of lamp source(s)	9LEDs / 1 light source	16LEDs / 1 light source	4LEDs / 1 light source	5LEDs / 1 light source	5LEDs / 1 light source	
Voltage and wattage	12V, 4.6W	12V, 1.0W	12V, 1.5W	12V, 2.8W	12V, 0.8W	
Electronic light source control gear						
- Being part of the lamp	-	-	-	-	-	
- Being not part of the lamp	-	-	-	-	-	
Lens	Outer version A	Clear	Red	Red	Clear	Red
	Outer version B	Smoked	Red	Red	Smoked	Red
	Outer version C	Clear	Clear	Clear	Clear	Clear
	Outer version D	Smoked	Smoked	Smoked	Smoked	Smoked
	Filter (inner)	Clear	White	Clear	Clear	Clear
Colour of light emitted	Amber	Red	Red	White	Red	

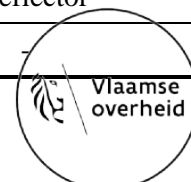
⁽¹⁾ On devices SK1810(1811)-PYR11 and SK1820(1821)-PYR11 which were requested as part of an assembly of two lamps, comply with ECE R6 in paragraph 4.2.2.1 and ECE R7 in paragraph 6 "lamp (single) marked "D" requirement.

⁽²⁾ Reversing lamp and rear fog lamp shall be installed in a pair of devices.

TECHNICAL DATA

Part	Material	Remark
Lens	Outer	PMMA
	Filter (Inner)	PC
Reflector	PC	Sub-reflector ⁽³⁾
Housing	PC	

⁽³⁾ There are two kinds of sub-reflectors, one is electroplated, and the other is black.



MARKING

Marking		Location
Trade name or mark	SONAR	See drawing
Approval marks	5129	See drawing
LED module code	-	-
Electronic light source control gear code	-	-

DRAWINGS	
Reference	Version
SK1820(1821)-PYR11-1	2019.08.16
SK1820(1821)-PYR11-2	2019.08.16
SK1820(1821)-PYR11-3	2019.08.16
SK1820(1821)-PYR11-4	2019.08.16
SK1820(1821)-PYR11-5	2019.08.16
SK1820(1821)-PYR11-6	2019.08.16

(Null below)



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DRIVING DIRECTION



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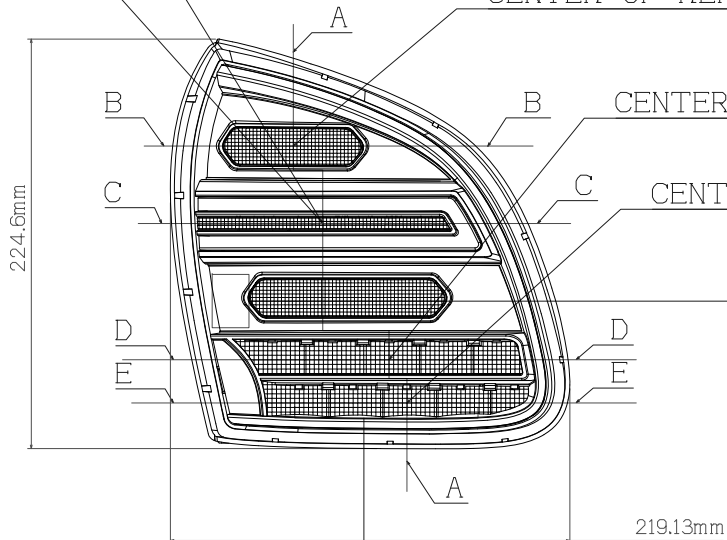
CENTER OF REFERENCE REAR POSITION LAMP (16LED`s12V1W)

CENTER OF REFERENCE (REAR DIRECTION INDICATOR (9LED`s12V4.6W)

CENTER OF REFERENCE STOP LAMP (4LED`s12V1.5W)

CENTER OF REFERENCE REVERSING LAMP (5LED`s12V2.8W)

CENTER OF REFERENCE REAR FOG LAMP (5LED`s12V0.8W)



RH SONAR SK1820 PYR11

LH SONAR SK1821 PYR11

R1D S1D
02 02
2aD
01
AR
00
F1
00
E6
5129
FOR LEFT

R1D S1D
02 02
2aD
01
AR
00
F1
00
E6
5129
FOR RIGHT

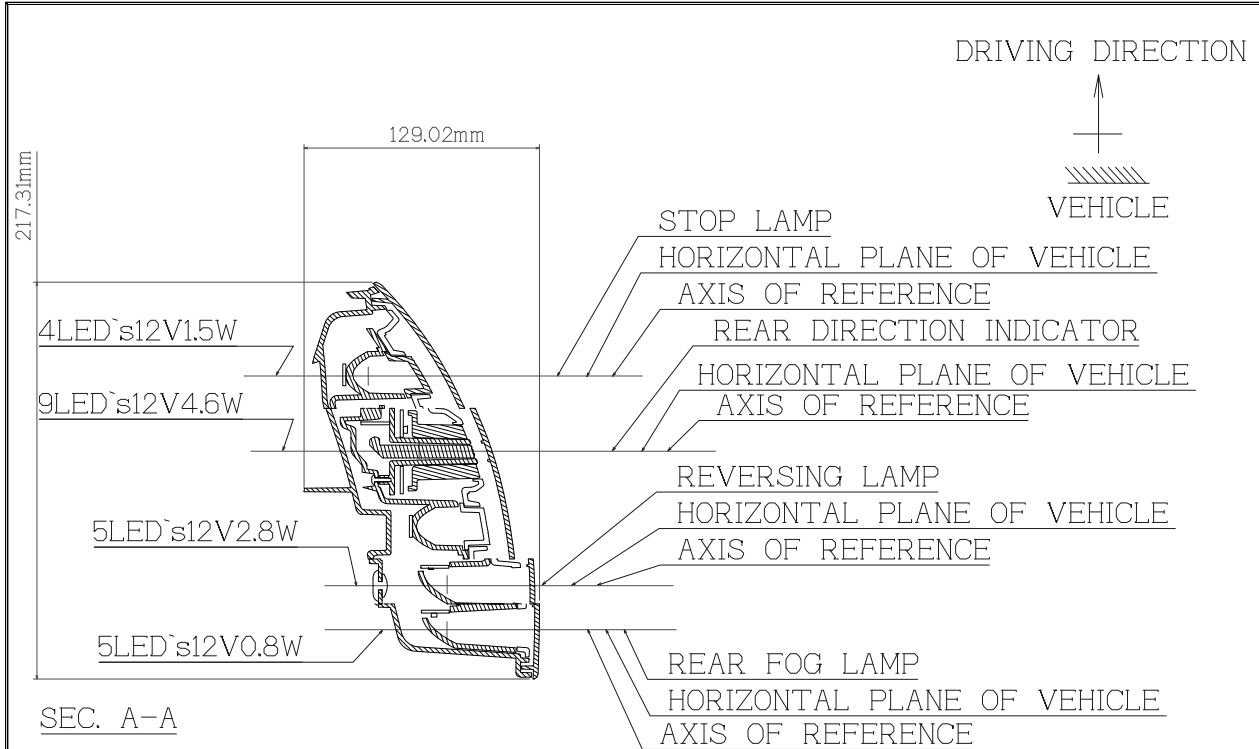


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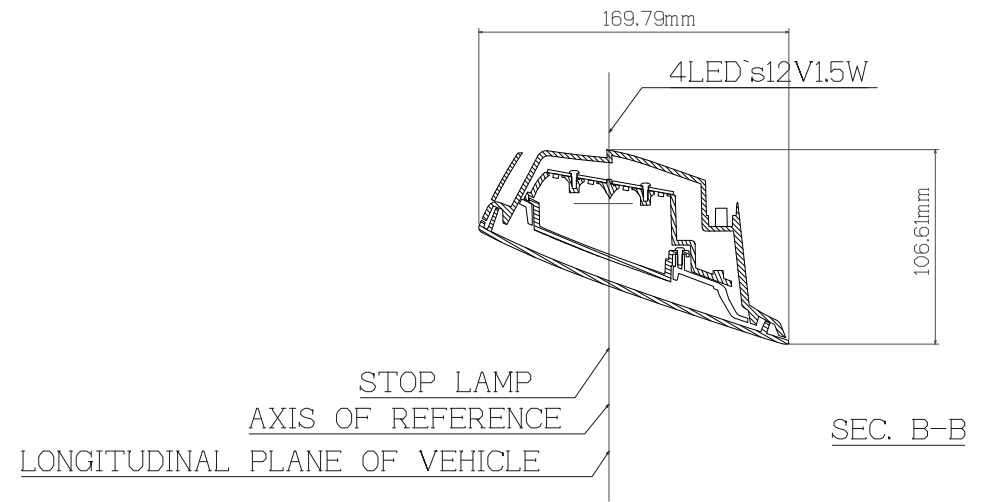
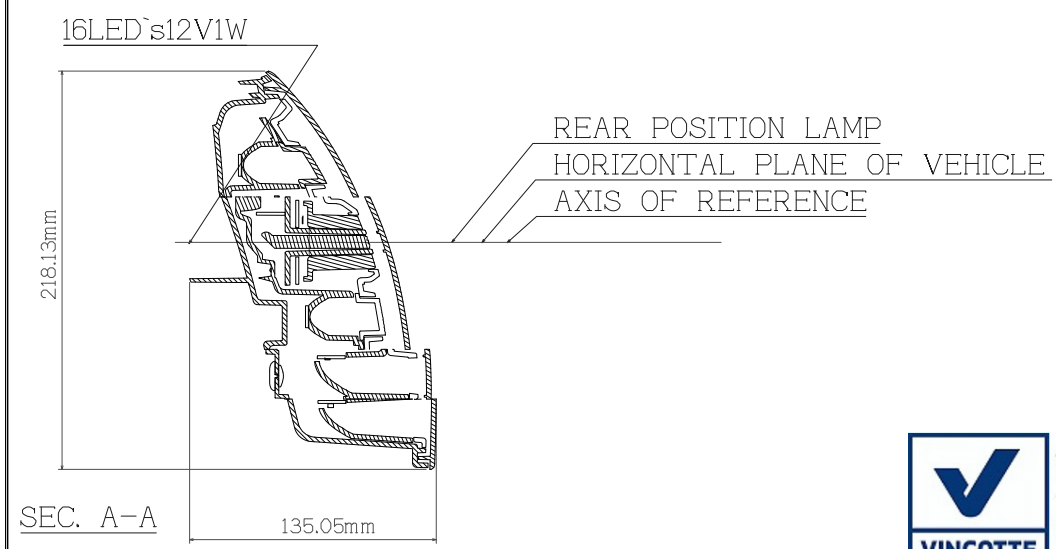


COMPANY	SONAR AUTO PARTS CO., LTD	
MODEL NAME	SK1820(1821) PYR11-1	DATE:2019.08.16
FUNCTION	COMBINATION TAIL LAMP	

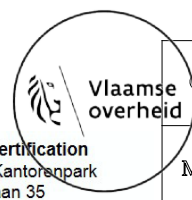


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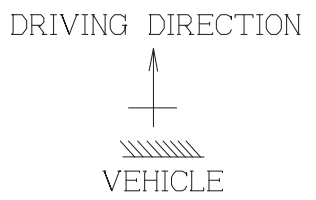
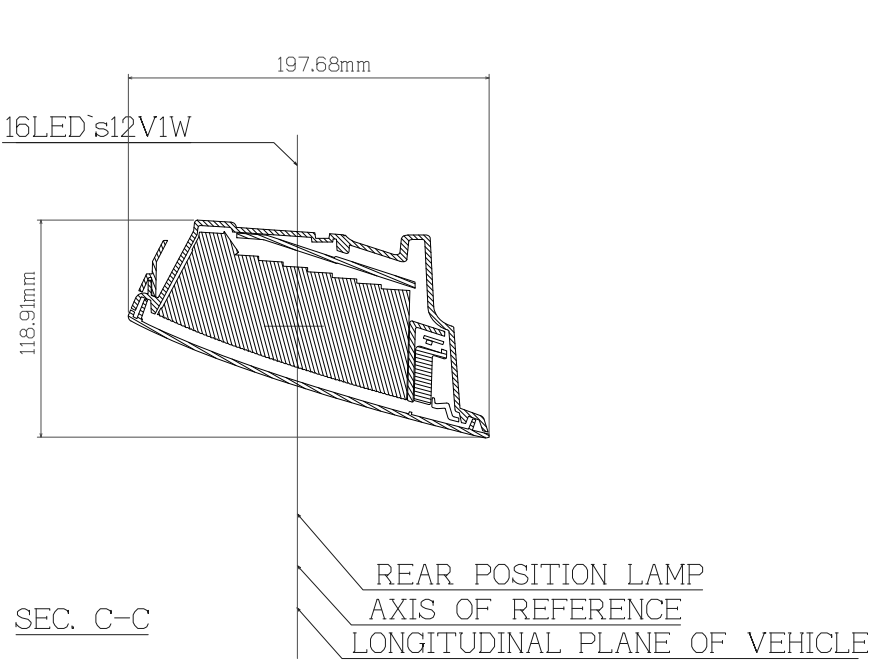


圖面比例: 1:1 UNIT:mm

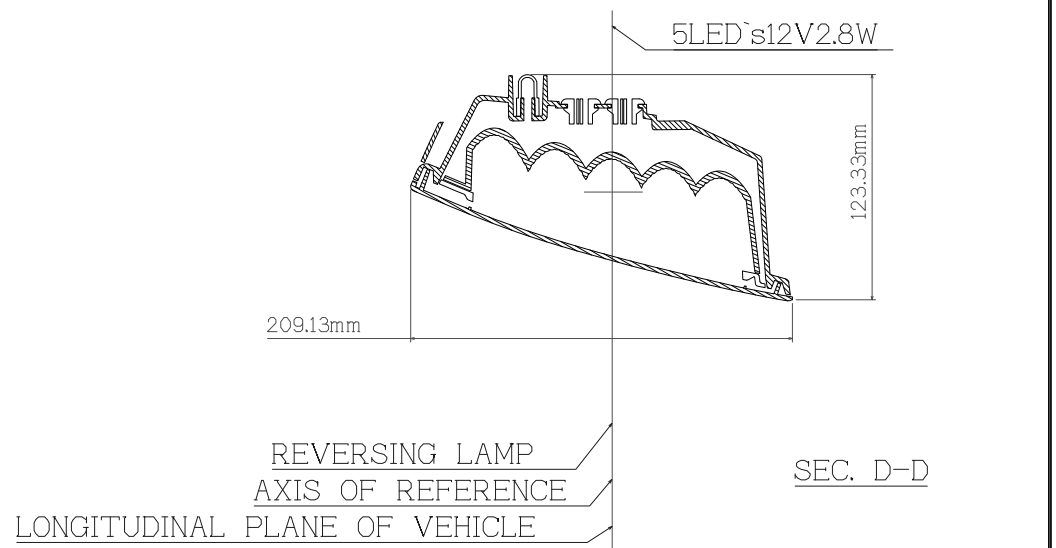
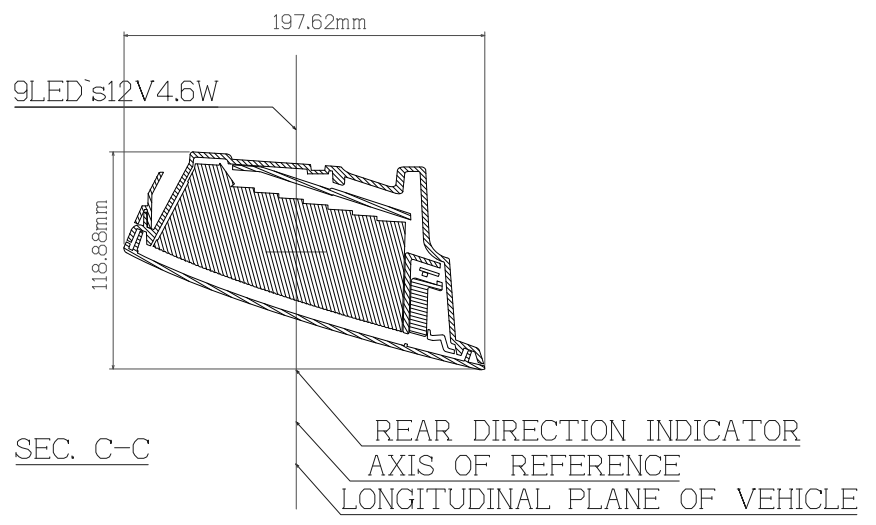


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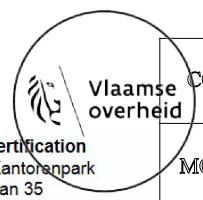
COMPANY	SONAR AUTO PARTS CO., LTD	
MODEL NAME	SK1820(1821) PYR11-2	DATE:2019.08.16
FUNCTION	COMBINATION TAIL LAMP	



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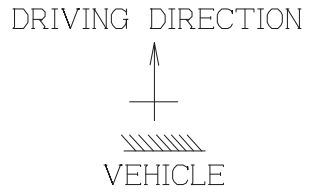
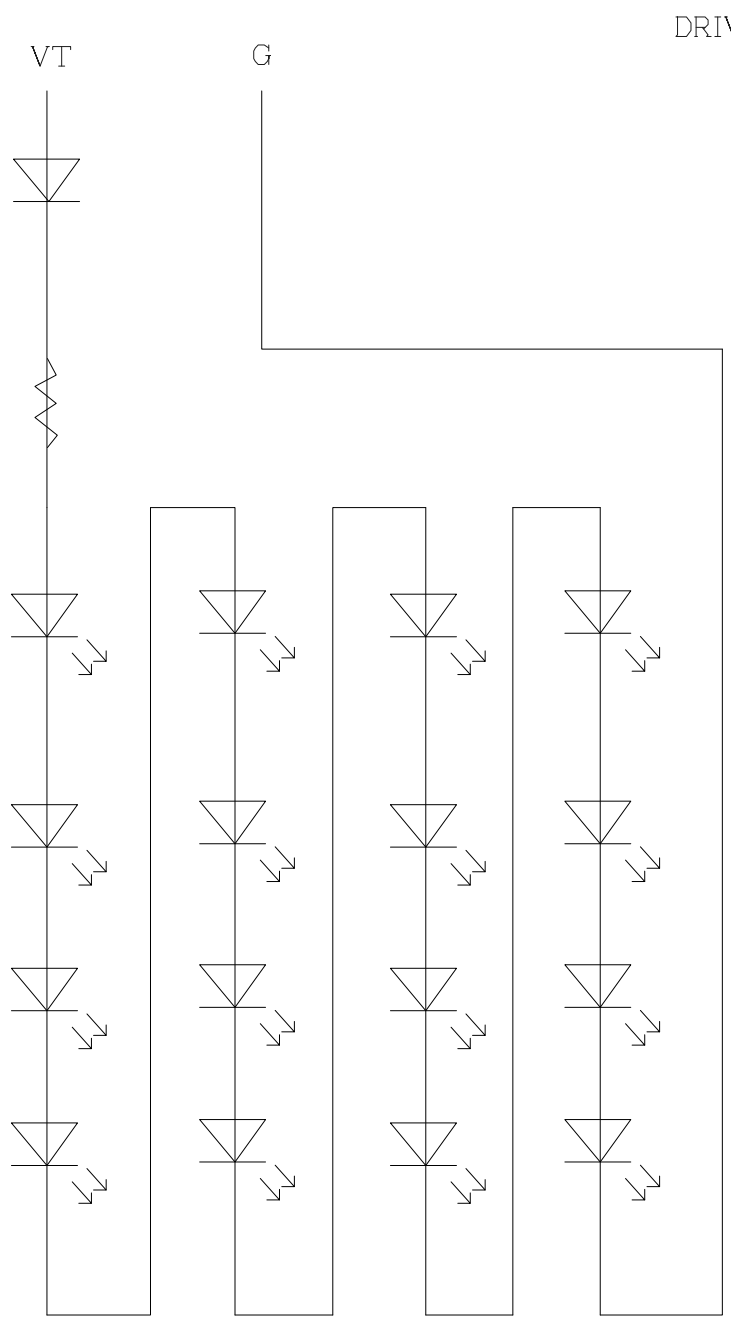


圖面比例: 1:1 UNIT:mm



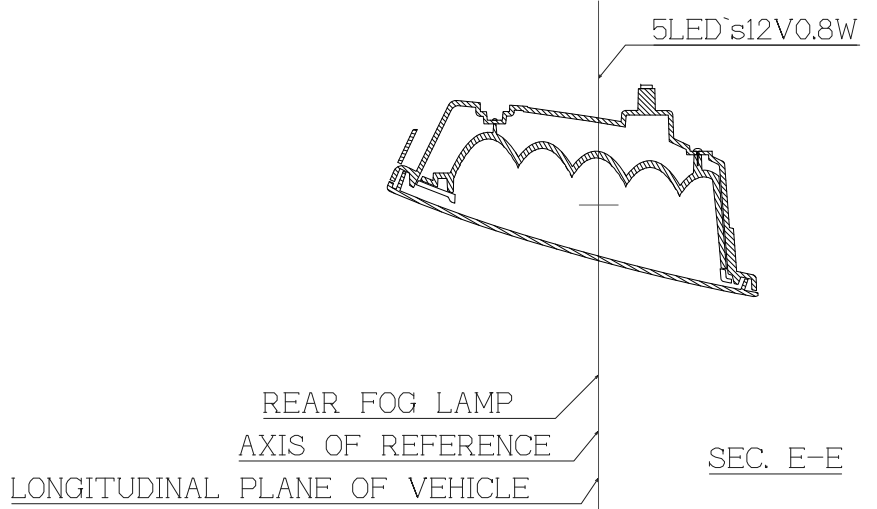
AUTOMOTIVE certification
 Business Class Kantorenpark
 Jan Olieslagerslaan 35
 B-1800 Vilvoorde
 E-mail: homologation@vincotte.be
 2019.11.04

COMPANY	SONAR AUTO PARTS CO., LTD	
MODEL NAME	SK1820(1821) PYR11-3	DATE:2019.08.16
FUNCTION	COMBINATION TAIL LAMP	



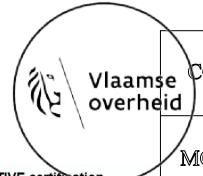
NOTE:

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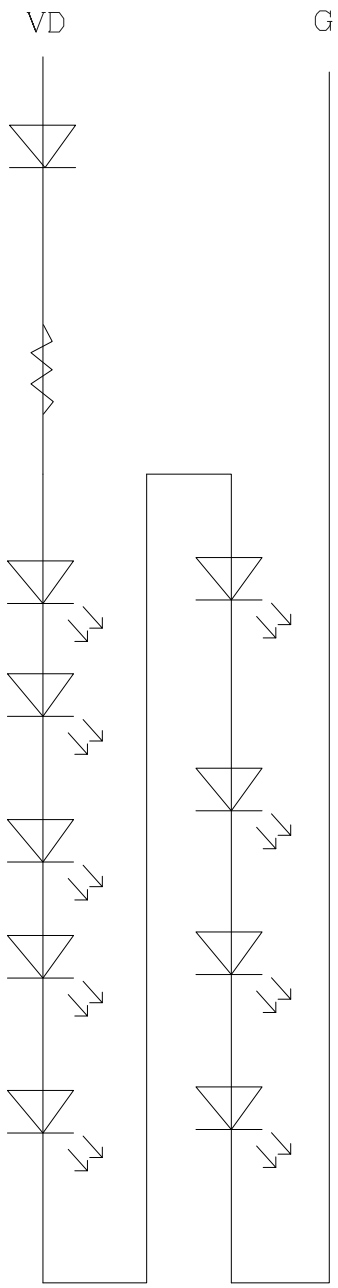
圖面比例: 1:1 UNIT:mm

CIRCUIT DIAGRAM OF REAR POSITION LAMP

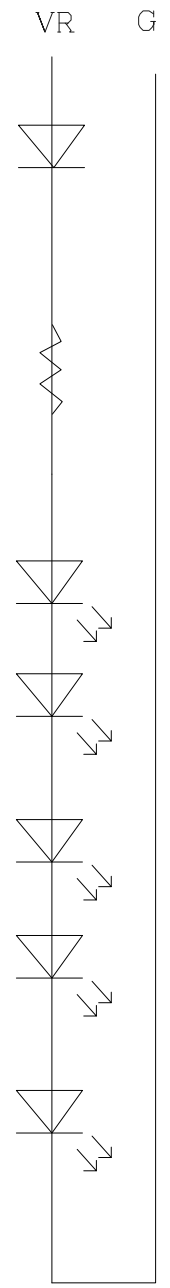


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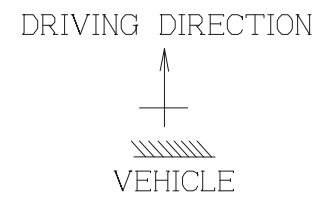
COMPANY	SONAR AUTO PARTS CO., LTD	
MODEL NAME	SK1820(1821) PYR11-4	DATE:2019.08.16
FUNCTION	COMBINATION TAIL LAMP	



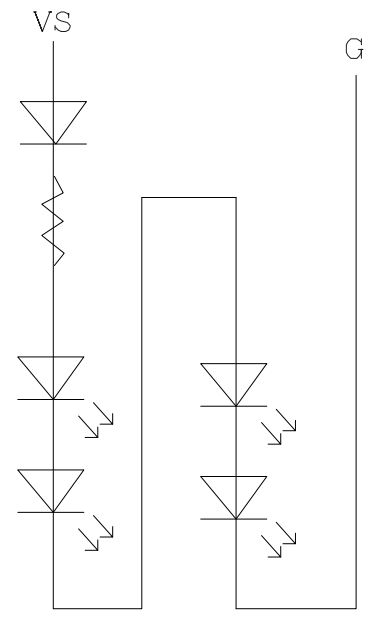
CIRCUIT DIAGRAM OF REAR DIRECTION INDICATOR



CIRCUIT DIAGRAM OF REVERSING LAMP

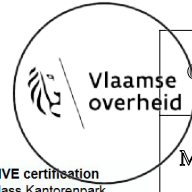


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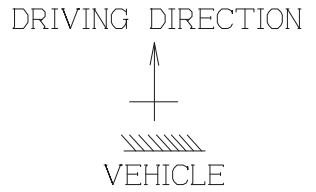


CIRCUIT DIAGRAM OF STOP LAMP

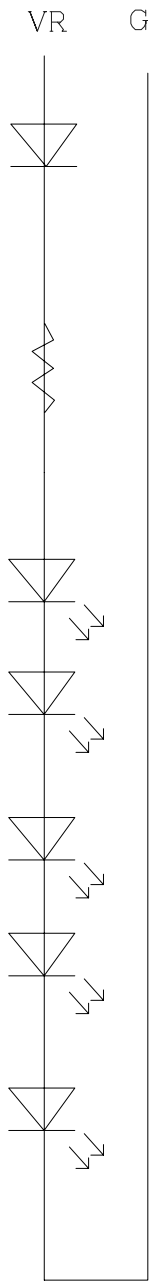
圖面比例: 1:1 UNIT:mm



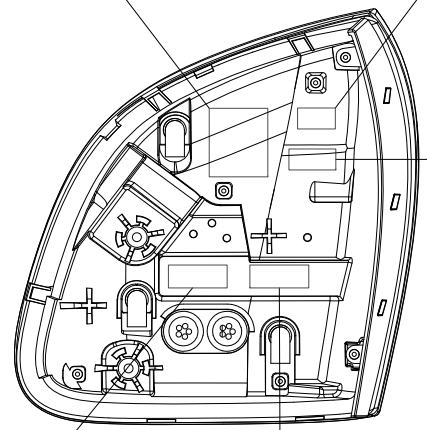
COMPANY	SONAR AUTO PARTS CO., LTD	
MODEL NAME	SK1820(1821) PYR11-5	DATE:2019.08.16
FUNCTION	COMBINATION TAIL LAMP	



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SONAR SK1821 PYR11
 MADE IN TAIWAN
 LENS:PMMA
 HSG:PC
 12V ~~24V~~
 LH



LED
 1.5/1W
 RED GREEN

LED
 4.6W
 YELLOW

LED
 0.8W
 BLUE

LED
 2.8W
 WHITE

CIRCUIT DIAGRAM OF REAR FOG LAMP



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圖面比例: 1:1 UNIT:mm



COMPANY	SONAR AUTO PARTS CO., LTD	
MODEL NAME	SK1820(1821) PYR11-6	DATE:2019.08.16
FUNCTION	COMBINATION TAIL LAMP	

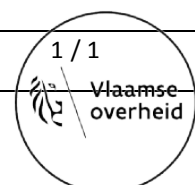
Index to the information package of a type approval with regard to a Regulation (UNECE) :

Last applicable Series of amendments	Base approval and update No	Extension No	Revision No	Issue date	Information document	
					Reference	Number of pages
R38-00	00	-	-	04.11.2019	SONAR SK1820(1821)-PYR11 / 00	9

Approved and to be attached to the approval certificate,

R. VERHELST

Updated Approval No:	E6-38R00/19*5129*00	BEVASYS :	201907157
Update No :	00	Issuedate :	04.11.2019





Communication concerning :

- ~~Approval granted~~ ⁽¹⁾
- ~~Approval extended~~ ⁽¹⁾
- ~~Approval refused~~ ⁽¹⁾
- ~~Approval withdrawn~~ ⁽¹⁾
- ~~Production definitively discontinued~~ ⁽¹⁾

of a type of rear fog lamp for power-driven vehicles and their trailers, pursuant to Regulation No.38

Approval No : E6-38R00/19*5129*00 Extension No : -

Approval mark :

R1D S1D
02 02
2aD
01
AR
00
F1
00

R1D S1D
02 02
2aD
01
AR
00
F1
00



←
5129
Left hand



→
5129
Right hand

- | | | |
|----|--|--|
| 1. | Trade name or mark of the device : | SONAR |
| 2. | Manufacturer's name for the type of device : | SK1820-PYR11, SK1821- PYR11 |
| 3. | Manufacturer's name and address : | Sonar Auto Parts Co., Ltd.
No. 427, Sec. 2, Wenhua Rd., Panchiao District,
New Taipei City, Taiwan, R.O.C. |
| 4. | If applicable, name and address of the manufacturer's representative : | - |
| 5. | Submitted for approval on : | 17.07.2019 ~ 22.08.2019
SUN-JET VISIBLE LIGHT LABORATORY. |
| 6. | Technical Service responsible for conducting approval test: | Vincotte N.V.
Jan Olieslagerslaan 35
1800 Vilvoorde
Belgium |
| 7. | Date of test report issued by that service : | 04.11.2019 |
| 8. | Number of test report issued by that service: | H1960667001/185 |

9. Concise description: See information document
- Number, category and kind of light source(s) : F1
- Voltage and wattage : 12V , 0.8W
- Light source module specific identification code : -
- Geometrical conditions of installation and relating variations, if any : See information document
- Application of an electronic light source control gear / variable intensity control :
 (a) Being part of the lamp: ~~Yes~~ / No ⁽¹⁾
 (b) Being not part of the lamp: ~~Yes~~ / No ⁽¹⁾
- Input voltage(s) supplied by an electronic light source control gear / variable intensity control : -
- Electronic light source control gear / variable intensity control manufacturer and identification number (when the light source control gear is part of the lamp but is not included into the lamp body) : -
- Variable luminous intensity: ~~Yes~~ / No ⁽¹⁾
- The lamp is only for use on a vehicle fitted with a tell-tale indicating failure: ~~Yes~~ / No ⁽¹⁾
10. Position of approval mark : On the lamp
11. Reason(s) for extension (if applicable) : Not applicable
12. Approval granted / ~~extended~~ / ~~refused~~ / ~~withdrawn~~ ⁽¹⁾

13. Place : Brussels
14. Date : 04.11.2019
15. Signature :

ON BEHALF OF THE SECRETARY-GENERAL:



A handwritten signature in blue ink, reading 'R. Verhelst'.

R. VERHELST

16. The list of documents deposited with the Type Approval Authority which has granted approval is annexed to this communication and may be obtained on request.

(1) *Strike out what does not apply*



VINÇOTTE nv

Registered office: Jan Olieslagerslaan 35 • 1800 Vilvoorde • Belgium

VAT BE 0462.513.222 • RPM/RPR Brussels • BNP Paribas Fortis: BE24 2100 4113 6338 • BIC: GEBABEBB

Jan Olieslagerslaan 35 • 1800 Vilvoorde • Belgium • phone: +32 2 674 57 11 • brussels@vincotte.be

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

1. **SUBJECT : REAR FOG LAMPS**

R38-00

2. **REF. :** Report number : **H1960667001/185** No. of pages : 1 of 11 No. of annexes : -
Bevasys : 201907157 Approval No. : (5129 00) Update : 00

3. **GENERALITIES :**

Make of Device : SONAR

Commercial Type : -

Manufacturer's Type : SK1820-PYR11, SK1821-PYR11

Name and address of the manufacturer :

Sonar Auto Parts Co., Ltd.

No. 427, Sec. 2, Wenhua Rd., Panchiao District,

New Taipei City, Taiwan, R.O.C.

4. **TESTS :** Date and place : 2019.07.17 to 2019.08.22
SUN-JET VISIBLE LIGHT LABORATORY.
Applied document(s) : SONAR SK1820(1821)-PYR11 / 00
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. 38 incorporating supplement 19 to the original version.

The models presented comply with the requirements to be applied.

Date : 2019.11.04

Signature :



DESCRIPTION OF THE TESTED REAR FOG LAMP

Rear fog lamp type	:	Rear fog lamp <i>Rear fog lamp shall be installed in a pair of devices</i>
Rear fog lamp category	:	F1
Category and kind of light source(s)	:	LED
Number of light source(s)	:	5LEDs / 1 light source
Voltage and wattage	:	12V , 0.8W

GENERAL SPECIFICATIONS

Characteristics concerned and prescriptions to apply	References	Conformity	Not applied
The requirements contained in sections 5. "General specifications" and 6. "Individual specifications" and in the Annexes referenced in the said sections of Regulations Nos. 48 or 86, and their series of amendments in force at the time of application for the lamp type approval shall apply to this Regulation.	5.		
The requirements pertinent to each lamp and to the category/ies of vehicle on which the lamp is intended to be installed shall be applied, where its verification at the moment of lamp type approval is feasible. Each lamp shall conform to the specifications of the paragraphs below.	5.1.	X	
Rear fog lamps shall be so designed and constructed that in normal use, despite the vibration to which they may then be subjected, they continue to function satisfactorily and retain the characteristics prescribed by this Regulation.	5.2.	X	
In the case of light source module(s), it shall be checked that: The design of the light source module(s) shall be such as:	5.3.		X
(a) that each light source module can only be fitted in no other position than the designated and correct one and can only be removed with the use of tool(s); (b) If there are more than one light source module used in the housing for a device, light source modules having different characteristics can not be interchanged within the same lamp housing.	5.3.1.		
The light source module(s) shall be tamperproof.	5.3.2.		
A light source module shall be so designed that regardless of the use of tool(s), it shall not be mechanically interchangeable with any replaceable approved light source.	5.3.3.		
In the case of failure of the variable intensity control regulating the variable luminous intensity of a rear fog lamp of cat. F2 emitting more than the maximum value of cat. F or F1, req. of steady luminous intensity of cat. F or F1 shall be fulfilled automatically.	5.4.		X

Manufacturer name and address : **Sonar Auto Parts Co., Ltd.**
 No. 427, Sec. 2, Wenhua Rd., Panchiao District,
 New Taipei City, Taiwan, R.O.C.

Trade name or mark : **SONAR**

Type of device : **SK1820-PYR11, SK1821-PYR11**

SPECIFICATIONS



AUTOMOTIVE certification
 Business Class Kantorenpark
 Jan Olieslagerslaan 35
 B-1800 Vilvoorde
 E-mail: homologation@vincotte.be
 2019.11.04

Function-Application-class category lamp and colour

Trade name or mark	SONAR					
Function	<i>Rear Direction Indicator</i> ⁽¹⁾	<i>Rear Position Lamp</i> ⁽¹⁾	<i>Stop Lamp</i> ⁽¹⁾	<i>Reversing Lamp</i> ⁽²⁾	<i>Rear Fog Lamp</i> ⁽²⁾	
ECE regulation	6-01 Supplement 29	7-02 Supplement 27	7-02 Supplement 27	23-00 Supplement 22	38-00 Supplement 19	
Class	-	-	-	-	-	
Category	2aD	R1D	S1D	AR	F1	
Number, category and kind of lamp source(s)	9LEDs / 1 light source	16LEDs / 1 light source	4LEDs / 1 light source	5LEDs / 1 light source	5LEDs / 1 light source	
Voltage and wattage	12V, 4.6W	12V, 1.0W	12V, 1.5W	12V, 2.8W	12V, 0.8W	
Electronic light source control gear						
- Being part of the lamp	-	-	-	-	-	
- Being not part of the lamp	-	-	-	-	-	
Lens	Outer version A	Clear	Red	Red	Clear	Red
	Outer version B	Smoked	Red	Red	Smoked	Red
	Outer version C	Clear	Clear	Clear	Clear	Clear
	Outer version D	Smoked	Smoked	Smoked	Smoked	Smoked
	Filter (inner)	Clear	White	Clear	Clear	Clear
Colour of light emitted	Amber	Red	Red	White	Red	

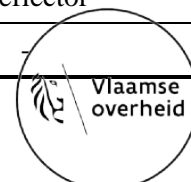
⁽¹⁾ On devices SK1810(1811)-PYR11 and SK1820(1821)-PYR11 which were requested as part of an assembly of two lamps, comply with ECE R6 in paragraph 4.2.2.1 and ECE R7 in paragraph 6 "lamp (single) marked "D" requirement.

⁽²⁾ Reversing lamp and rear fog lamp shall be installed in a pair of devices.

TECHNICAL DATA

Part	Material	Remark
Lens	Outer	PMMA
	Filter (Inner)	PC
Reflector	PC	Sub-reflector ⁽³⁾
Housing	PC	

⁽³⁾ There are two kinds of sub-reflectors, one is electroplated, and the other is black.



MARKING

Marking		Location
Trade name or mark	SONAR	See drawing
Approval marks	5129	See drawing
LED module code	-	-
Electronic light source control gear code	-	-

DRAWINGS	
Reference	Version
SK1820(1821)-PYR11-1	2019.08.16
SK1820(1821)-PYR11-2	2019.08.16
SK1820(1821)-PYR11-3	2019.08.16
SK1820(1821)-PYR11-4	2019.08.16
SK1820(1821)-PYR11-5	2019.08.16
SK1820(1821)-PYR11-6	2019.08.16

(Null below)



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DRIVING DIRECTION



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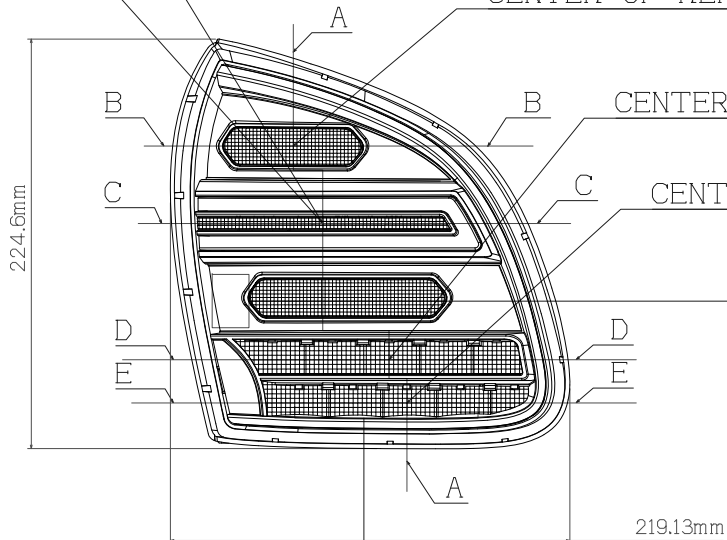
CENTER OF REFERENCE REAR POSITION LAMP (16LED`s12V1W)

CENTER OF REFERENCE (REAR DIRECTION INDICATOR (9LED`s12V4.6W)

CENTER OF REFERENCE STOP LAMP (4LED`s12V1.5W)

CENTER OF REFERENCE REVERSING LAMP (5LED`s12V2.8W)

CENTER OF REFERENCE REAR FOG LAMP (5LED`s12V0.8W)



RH SONAR SK1820 PYR11

LH SONAR SK1821 PYR11

R1D S1D
02 02
2aD
01
AR
00
F1
00
E6
5129
FOR LEFT

R1D S1D
02 02
2aD
01
AR
00
F1
00
E6
5129
FOR RIGHT

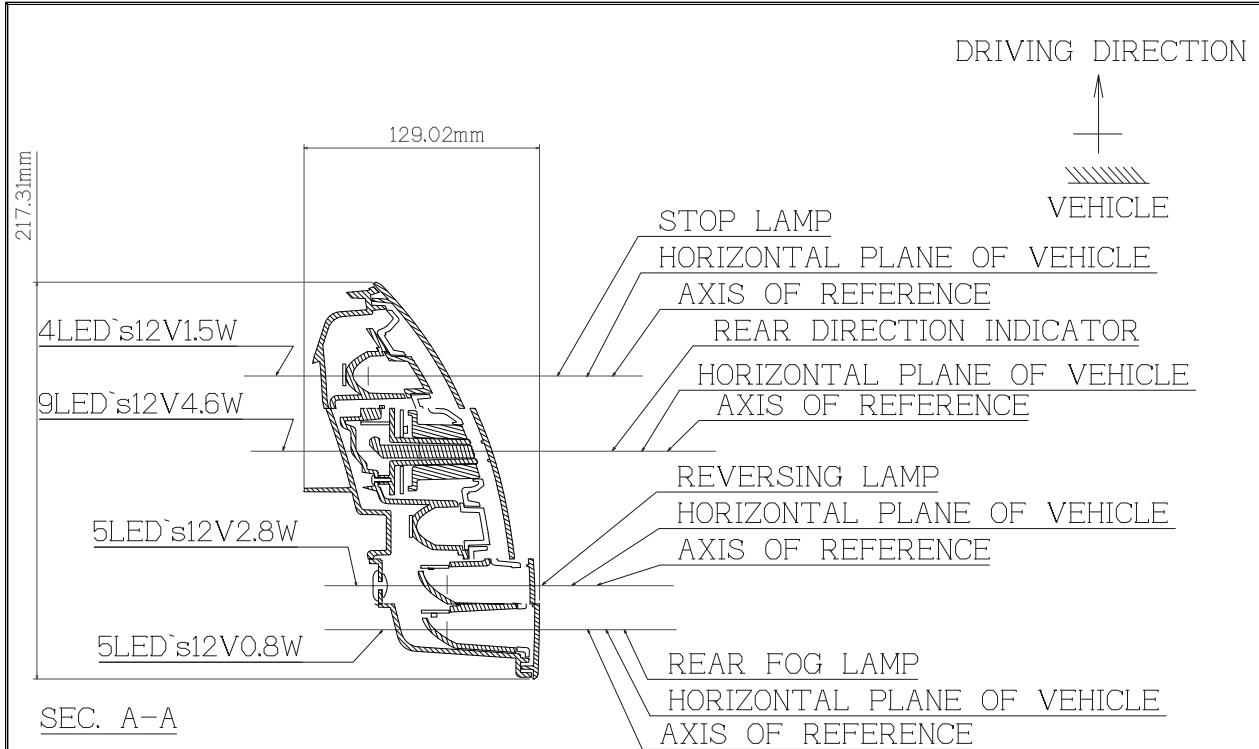


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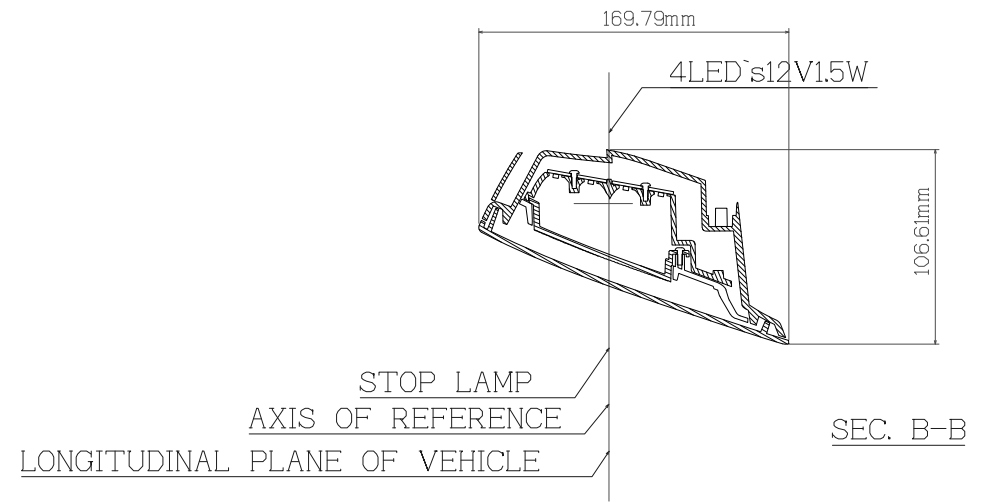
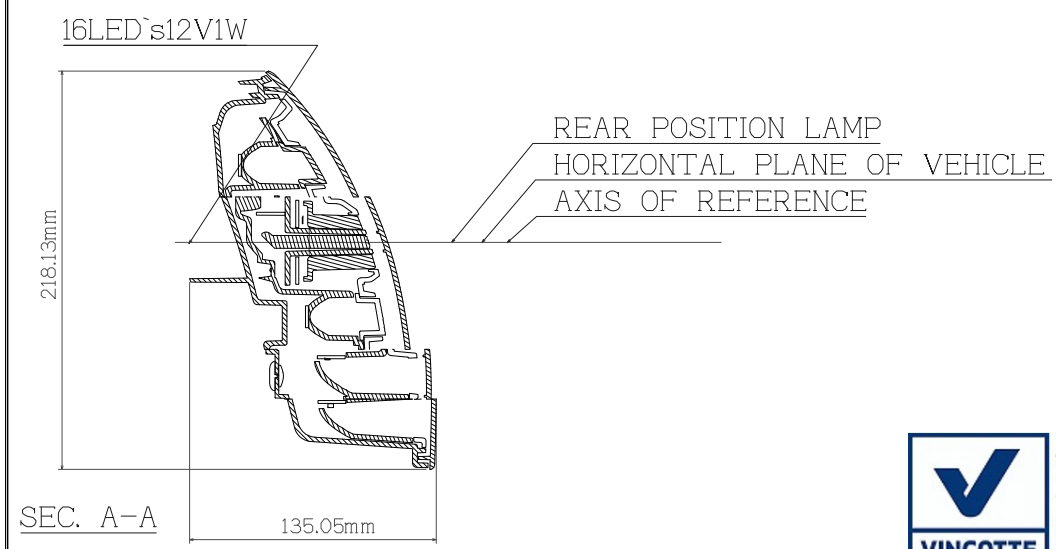


COMPANY	SONAR AUTO PARTS CO., LTD	
MODEL NAME	SK1820(1821) PYR11-1	DATE:2019.08.16
FUNCTION	COMBINATION TAIL LAMP	

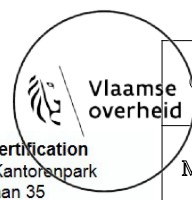


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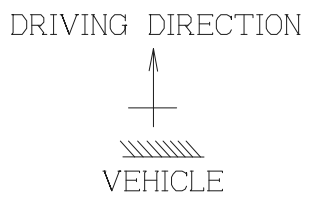
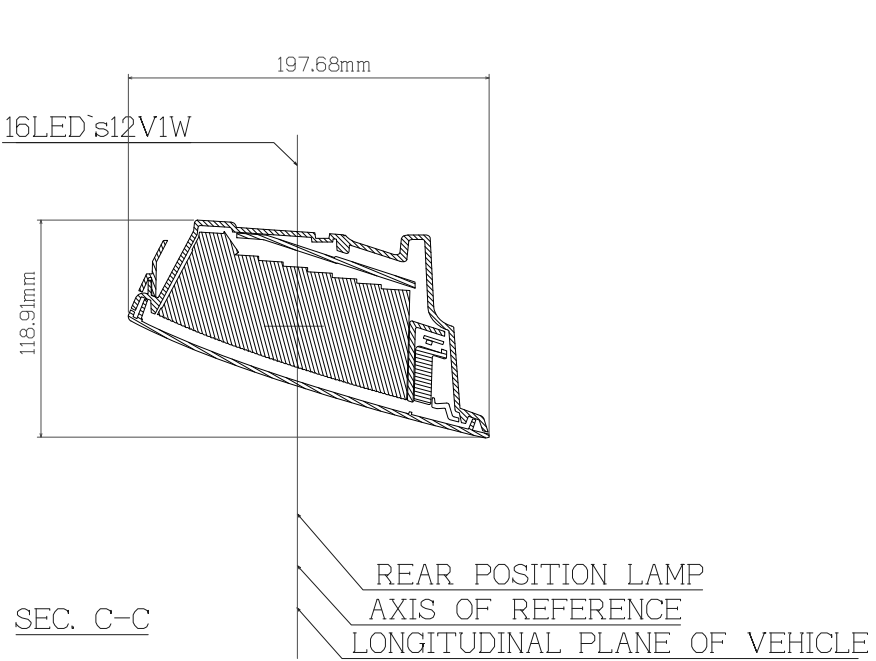


圖面比例: 1:1 UNIT:mm

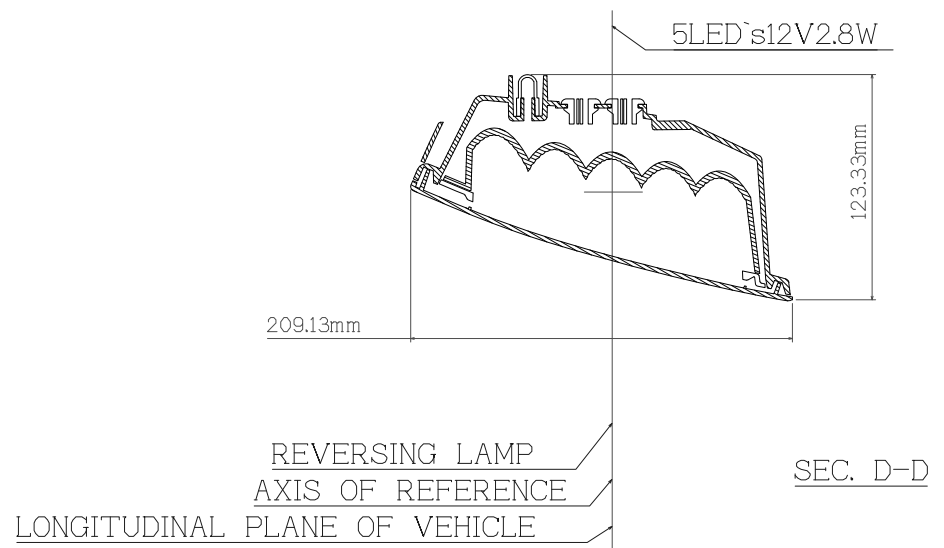
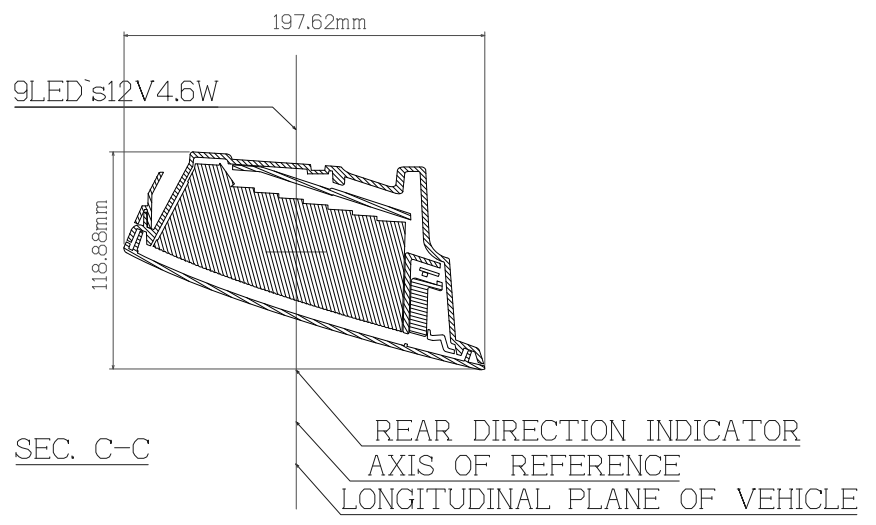


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COMPANY	SONAR AUTO PARTS CO., LTD	
MODEL NAME	SK1820(1821) PYR11-2	DATE:2019.08.16
FUNCTION	COMBINATION TAIL LAMP	



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 5. VERSION C: CLEAR OUTER LENS (THERE ARE TWO KINDS OF SUB-REFLECTORS, ONE IS ELECTROPLATED AND THE OTHER IS BLACK)
 6. VERSION D: SMOKE OUTER LENS (THERE ARE TWO KINDS OF SUB-REFLECTORS, ONE IS ELECTROPLATED AND THE OTHER IS BLACK)



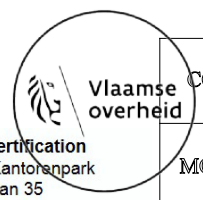
圖面比例: 1:1 UNIT:mm

SEC. C-C
 REAR DIRECTION INDICATOR
 AXIS OF REFERENCE
 LONGITUDINAL PLANE OF VEHICLE

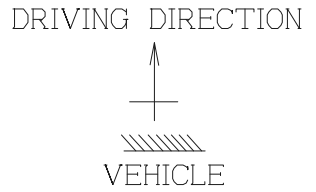
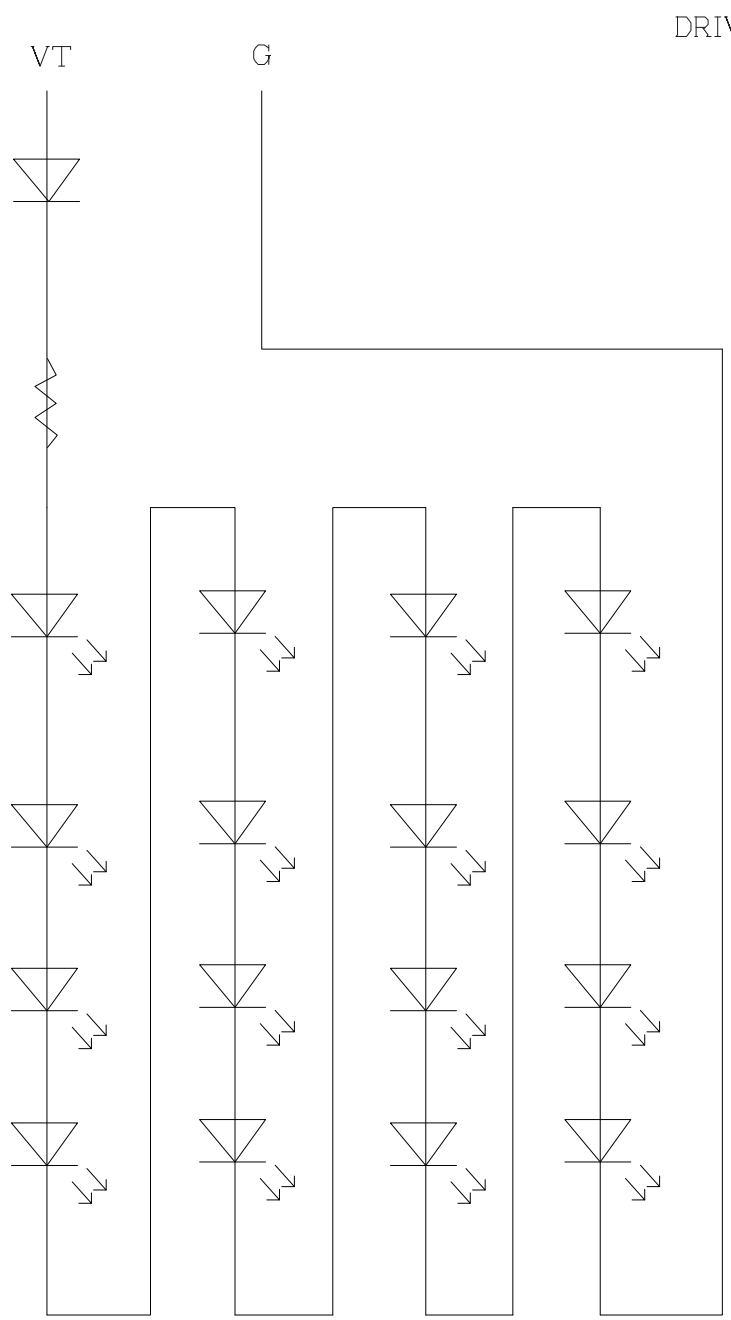
REVERSING LAMP
 AXIS OF REFERENCE
 LONGITUDINAL PLANE OF VEHICLE
 SEC. D-D



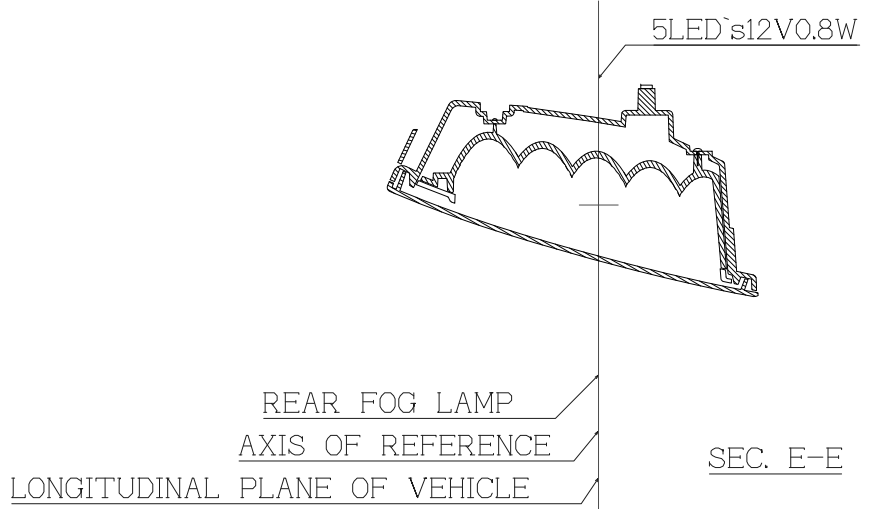
AUTOMOTIVE certification
 Business Class Kantorenpark
 Jan Olieslagerslaan 35
 B-1800 Vilvoorde
 E-mail: homologation@vincotte.be
 2019.11.04



COMPANY	SONAR AUTO PARTS CO., LTD	
MODEL NAME	SK1820(1821) PYR11-3	DATE:2019.08.16
FUNCTION	COMBINATION TAIL LAMP	



NOTE:
 1. THIS DRAWING SHALL BE APPLIED FOR LEFT SIDE ONLY,THE RIGHT SIDE SHALL BE SYMMETRICAL
 2. THE LENS IS FIXED TO HOUSING BY USING GLUE AND CLIPS.
 3.VERSION A:CLEAR OUTER LENS(REAR DIRECTION LAMP,REVERSING LAMP)RED OUTER LENS(REAR POSITION LAMP,STOP LAMP,REAR FOG LAMP) (THERE ARE TWO KINDS OF SUB-REFLECTORS,ONE IS ELECTROPLATED AND THE OTHER IS BLACK)
 4.VERSION B:SMOKE OUTER LENS(REAR DIRECTION LAMP,REVERSING LAMP)RED OUTER LENS(REAR POSITION LAMP,STOP LAMP,REAR FOG LAMP) (THERE ARE TWO KINDS OF SUB-REFLECTORS,ONE IS ELECTROPLATED AND THE OTHER IS BLACK)
 5.VERSION C:CLEAR OUTER LENS (THERE ARE TWO KINDS OF SUB-REFLECTORS,ONE IS ELECTROPLATED AND THE OTHER IS BLACK)
 6.VERSION D:SMOKE OUTER LENS (THERE ARE TWO KINDS OF SUB-REFLECTORS,ONE IS ELECTROPLATED AND THE OTHER IS BLACK)



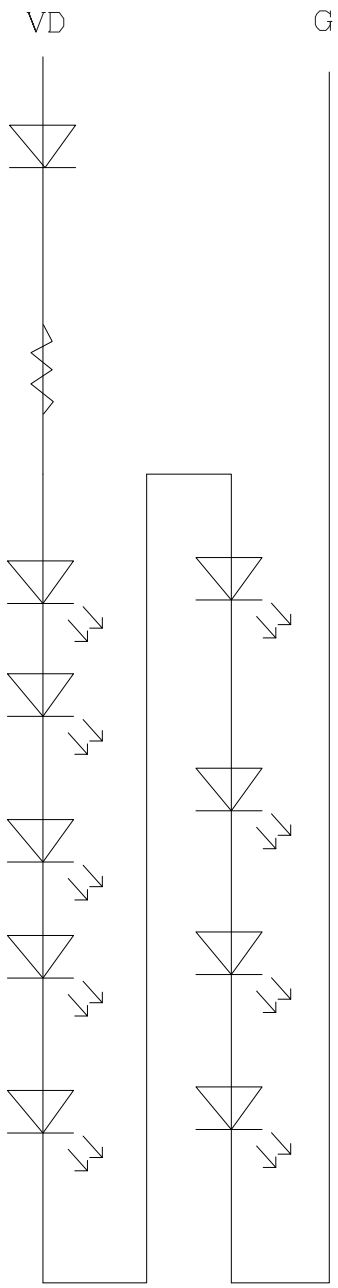
圖面比例: 1:1 UNIT:mm

CIRCUIT DIAGRAM OF REAR POSITION LAMP

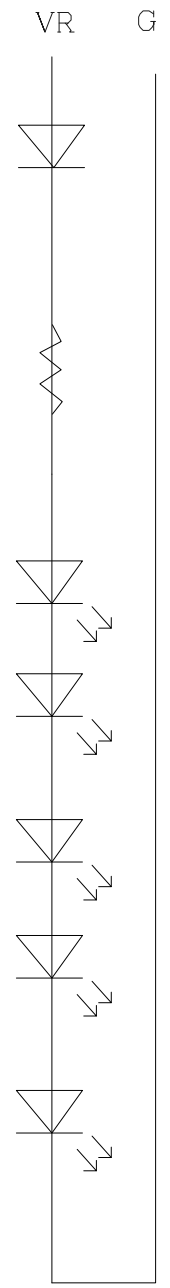


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 E-mail: homologation@vincotte.be
 2019.11.04

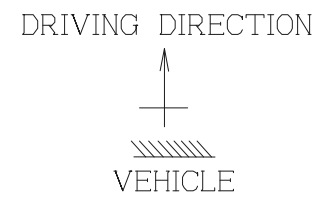
COMPANY	SONAR AUTO PARTS CO., LTD	
MODEL NAME	SK1820(1821) PYR11-4	DATE:2019.08.16
FUNCTION	COMBINATION TAIL LAMP	



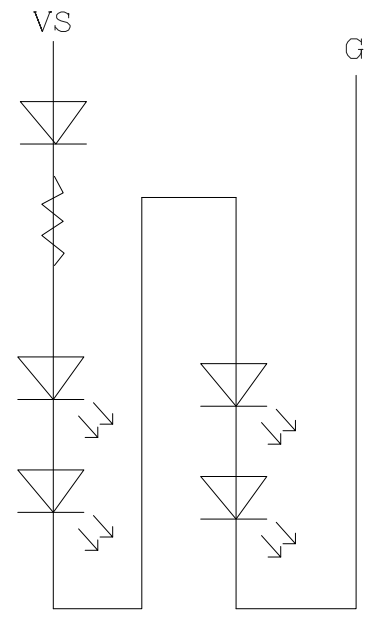
CIRCUIT DIAGRAM OF REAR DIRECTION INDICATOR



CIRCUIT DIAGRAM OF REVERSING LAMP

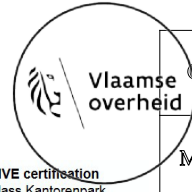


NOTE:
 1. THIS DRAWING SHALL BE APPLIED FOR LEFT SIDE ONLY,THE RIGHT SIDE SHALL BE SYMMETRICAL
 2. THE LENS IS FIXED TO HOUSING BY USING GLUE AND CLIPS.
 3.VERSION A:CLEAR OUTER LENS(REAR DIRECTION LAMP,REVERSING LAMP)RED OUTER LENS(REAR POSITION LAMP,STOP LAMP,REAR FOG LAMP) (THERE ARE TWO KINDS OF SUB-REFLECTORS,ONE IS ELECTROPLATED AND THE OTHER IS BLACK)
 4.VERSION B:SMOKE OUTER LENS(REAR DIRECTION LAMP,REVERSING LAMP)RED OUTER LENS(REAR POSITION LAMP,STOP LAMP,REAR FOG LAMP) (THERE ARE TWO KINDS OF SUB-REFLECTORS,ONE IS ELECTROPLATED AND THE OTHER IS BLACK)
 5.VERSION C:CLEAR OUTER LENS (THERE ARE TWO KINDS OF SUB-REFLECTORS,ONE IS ELECTROPLATED AND THE OTHER IS BLACK)
 6.VERSION D:SMOKE OUTER LENS (THERE ARE TWO KINDS OF SUB-REFLECTORS,ONE IS ELECTROPLATED AND THE OTHER IS BLACK)



CIRCUIT DIAGRAM OF STOP LAMP

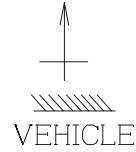
圖面比例: 1:1 UNIT:mm



COMPANY	SONAR AUTO PARTS CO., LTD	
MODEL NAME	SK1820(1821) PYR11-5	DATE:2019.08.16
FUNCTION	COMBINATION TAIL LAMP	

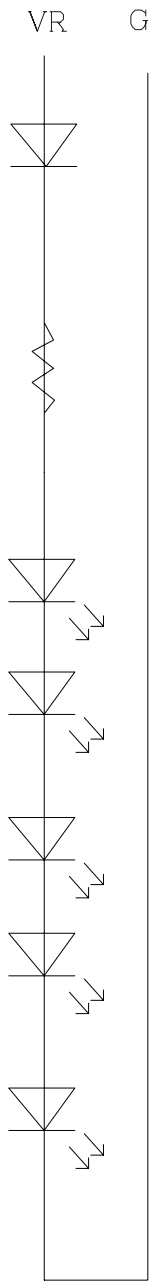


DRIVING DIRECTION

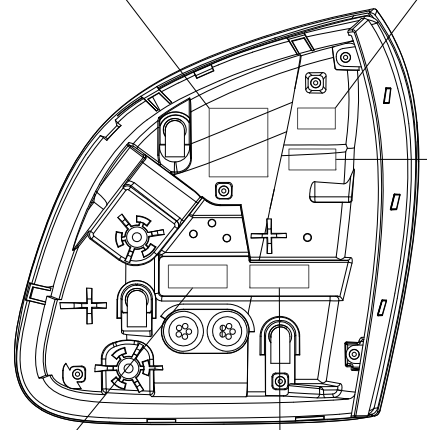


NOTE:

1. THIS DRAWING SHALL BE APPLIED FOR LEFT SIDE ONLY,THE RIGHT SIDE SHALL BE SYMMETRICAL
2. THE LENS IS FIXED TO HOUSING BY USING GLUE AND CLIPS.
- 3.VERSION A: CLEAR OUTER LENS(REAR DIRECTION LAMP,REVERSING LAMP)RED OUTER LENS(REAR POSITION LAMP,STOP LAMP,REAR FOG LAMP) (THERE ARE TWO KINDS OF SUB-REFLECTORS,ONE IS ELECTROPLATED AND THE OTHER IS BLACK)
- 4.VERSION B: SMOKE OUTER LENS(REAR DIRECTION LAMP,REVERSING LAMP)RED OUTER LENS(REAR POSITION LAMP,STOP LAMP,REAR FOG LAMP) (THERE ARE TWO KINDS OF SUB-REFLECTORS,ONE IS ELECTROPLATED AND THE OTHER IS BLACK)
- 5.VERSION C: CLEAR OUTER LENS (THERE ARE TWO KINDS OF SUB-REFLECTORS,ONE IS ELECTROPLATED AND THE OTHER IS BLACK)
- 6.VERSION D: SMOKE OUTER LENS (THERE ARE TWO KINDS OF SUB-REFLECTORS,ONE IS ELECTROPLATED AND THE OTHER IS BLACK)



SONAR SK1821 PYR11
 MADE IN TAIWAN
 LENS:PMMA
 HSG:PC
 12V ~~24V~~
 LH



LED
 1.5/1W
 RED GREEN

LED
 4.6W
 YELLOW

LED
 0.8W
 BLUE

LED
 2.8W
 WHITE

CIRCUIT DIAGRAM OF REAR FOG LAMP



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 2019.11.04

圖面比例: 1:1 UNIT:mm



COMPANY	SONAR AUTO PARTS CO., LTD	
MODEL NAME	SK1820(1821) PYR11-6	DATE:2019.08.16
FUNCTION	COMBINATION TAIL LAMP	