



E9*148R00/04*11101*00

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COMUNICACIÓN / COMMUNICATION:

Concerniente a /
Concerning: ⁽¹⁾

La concesión de homologación / *Approval granted*

~~La extensión de homologación / *Approval extended*~~

~~La denegación de homologación / *Approval refused*~~

~~La retirada de homologación / *Approval withdrawn*~~

~~El cese definitivo de producción / *Production definitively discontinued*~~

de un tipo de lámpara en aplicación del Reglamento UN N° 148 /
of a type of lamp pursuant to UN Regulation No. 148

Lámpara /
Lamp: ⁽¹⁾

~~Luz de la placa de matrícula trasera / *Rear registration plate illuminating lamp*~~

~~Indicador de dirección / *Direction indicator lamp*~~

~~Luz de pare / *Stop lamp*~~

~~Luz de posición / *Position lamp*~~

~~Luz de galibo / *End-outline marker lamp*~~

~~Luz de marcha atrás / *Reversing lamp*~~

~~Luz de maniobra / *Manoeuvring lamp*~~

~~Luz antiniebla trasera / *Rear fog lamp*~~

~~Luz de estacionamiento / *Parking lamp*~~

~~Luz de circulación diurna / *Daytime running lamp*~~

~~Luz de posición lateral / *Side marker lamp*~~

Categoría de la lámpara /
Category of the lamp:

R1

Cambio de índice /
Change index:

N° de homologación /
Approval No:

E9*148R00/04*11101*00

Identificador Único (si procede) /
Unique Identifier (UI) (if
applicable):

⁽¹⁾ Táchese lo que no proceda / *Strike out what does not apply*





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1. Marca de fábrica o comercial de la lámpara / *Trade name or mark of the lamp*:
Fristom
2. Tipo dado por el fabricante para la luz / *Manufacturer's name for the type of lamp*:
FT-065 C LED
3. Nombre y dirección del fabricante / *Manufacturer's name and address*:
FRISTOM SPÓLKA Z OGRANICZONA ODPOWIEDZIALNOSCIA SPÓLKA KOMANDYTOWA
UL. PRZEMYSŁOWA 5, 86-014
85416 SICIENKO
SICIENKO (POLONIA)

Nota / *Note*: Este dispositivo puede ser fabricado en cualquiera de las Plantas de Fabricación que consten declaradas en el Anexo I del Certificado Conformidad Producción en vigor emitido por la UCA. / *This device may be manufactured in any of the Manufacturing Plants declared in Annex I of the Conformity Production Certificate in force issued by the UCA.*
4. Si procede, nombre y dirección del representante del fabricante / *If applicable, name and address of the manufacturer's representative*: ---
5. Dispositivo presentado a homologación el / *Submitted for approval on*: 13/04/2023
6. Servicio técnico encargado de los ensayos de homologación / *Technical Service responsible for conducting approval tests*: IDIADA
7. Fecha del informe emitido por dicho servicio / *Date of report issued by that Service*: 24/05/2023
8. Número del informe emitido por dicho servicio / *Number of report issued by that Service*: PC23020284
9. Breve descripción / *Concise description*:
 - 9.1. En caso de / *In case of*
 - 9.1.1. Una luz de la placa de matrícula trasera / *A rear-registration plate illuminating lamp*:
 - Condiciones geométricas de instalación (posiciones e inclinaciones del dispositivo en relación al espacio ocupado por la placa de matrícula y/o diferentes inclinaciones de este espacio) / *Geometrical conditions of installation (position(s) and inclination(s) of the device in relation to the space to be occupied by the registration plate and/or different inclinations of this space)*: ---
 - 9.1.2. Un indicador de dirección / *A direction indicator*:
 - Activación secuencial de las fuentes luminosas / *Sequential activation of light sources*:
sí / ~~yes~~ - no / ~~no~~ ⁽¹⁾
 - 9.1.3. Una luz de marcha atrás / *A reversing lamp*: --
 - La luz sólo puede instalarse en un vehículo como parte de un par de luces / *The lamp shall be installed on a vehicle only as part of a pair of lamps*: sí / ~~yes~~ - no / ~~no~~ ⁽¹⁾

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9.1.4. Una luz de maniobra / *A manoeuvring lamp*:

- La altura máxima de montaje / *The maximum mounting height*: ---

9.1.5. Una luz de circulación diurna / *A daytime running lamp*:

- La intensidad luminosa máxima no excede 700 cd / *Maximum luminous intensity does not exceed 700 cd*: ~~sí~~
~~/yes - no - no~~ ⁽¹⁾

9.2. Por función de luz de señalización y categoría / *By light signalling function and category*:

- Para la instalación en el exterior ~~o en el interior o ambos~~ ⁽¹⁾ / *For mounting either outside or inside or both* ⁽¹⁾
- Color de luz emitida / *Colour of light emitted*:
 - Luz de posición / *Position lamp*: roja / *red* - ~~blanca~~ / ~~white~~ - ~~ambar~~ / ~~amber~~ - ~~incolora~~ / ~~colourless~~ ⁽⁴⁾
- Número, categoría(s) y tipo de la(s) fuente(s) luminosa(s) / *Number, category and kind of light source(s)*:
 - Luz de posición / *Position lamp*: 6 x LED
- Luz homologada para fuente(s) luminosa(s) sustitutiva(s) de LED. En caso afirmativo, categoría de la(s) fuente(s) de luz sustitutiva(s) de LED / *Lamp approved for LED substitute light source(s). If yes, category of LED substitute light source(s)*:
 - Luz de posición / *Position lamp*: ~~sí~~ / ~~yes~~ - no / *no* ⁽¹⁾
- Voltaje y potencia / *Voltage and wattage*:
 - Luz de posición / *Position lamp*: 12V/24V, 1.2W/1.2W
- Módulo de fuente de luz / *Light source module*:
 - Luz de posición / *Position lamp*: ~~sí~~ / ~~yes~~ - no / *no* ⁽¹⁾
- Código de identificación específico del módulo de fuente de luz / *Light source module specific identification code*:
 - Luz de posición / *Position lamp*: --
- Solo para instalación limitada en altura igual o inferior a 750 mm por encima del suelo, si procede / *Only for limited mounting height of equal to or less than 750 mm above the ground, if applicable*:
 - Luz de posición / *Position lamp*: ~~sí~~ / ~~yes~~ - no / *no* ⁽¹⁾
- Condiciones geométricas de instalación y variaciones relacionadas, si se da el caso / *Geometrical conditions of installation and relating variations, if any*: Ver documentación técnica / *See technical documentation*
- Aplicación de una guía de control electrónica/control de intensidad variable de la(s) fuente(s) luminosa(s) / *Application of an electronic light source control gear/variable intensity control*:
 - Luz de posición / *Position lamp*:
 - (a) Formando parte de la luz / *Being part of the lamp*: ~~sí~~ / ~~yes~~ - ~~no~~ / ~~no~~ ⁽¹⁾
 - (b) No formando parte de la luz / *Being not part of the lamp*: ~~sí~~ / ~~yes~~ - ~~no~~ / ~~no~~ ⁽¹⁾
- Tensión(es) de entrada suministrada(s) por la guía de control electrónica/control de intensidad variable la(s) fuente(s) luminosa(s) / *Input voltage(s) supplied by an electronic light source control gear/variable intensity control*: --

⁽¹⁾ Táchese lo que no proceda / *Strike out what does not apply*





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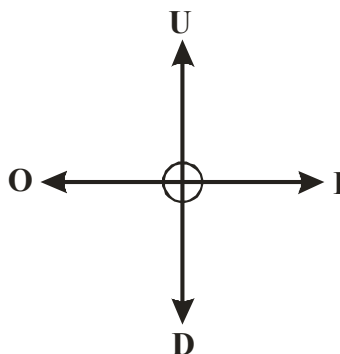
- Fabricante de la guía de control electrónica/control de intensidad variable de la(s) fuente(s) luminosa(s) y número de identificación (cuando la guía de control de la fuente luminosa forma parte de la luz pero no está incluida en el cuerpo de la luz) / *Electronic light source control gear/variable 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):* ---
 - Intensidad luminosa variable, si procede / *Variable luminous intensity, if applicable:* ~~si~~/yes - no / no ⁽¹⁾
 - Función(es) producida(s) por una luz interdependiente que forma parte de un sistema de luces interdependientes, si procede / *Function(s) produced by an interdependent lamp forming part of an interdependent lamp system, if applicable:* --
- 9.3. La ~~luz de posición delantera~~, luz de posición trasera, ~~luz de pare~~, ~~luz de galibo~~, ~~luz de circulación diurna~~ ⁽¹⁾ es sólo para uso en un vehículo equipado con un testigo que indique el fallo / *The ~~front position lamp~~, rear position lamp, ~~stop lamp~~, ~~end-outline marker lamp~~, ~~daytime running lamp~~* ⁽¹⁾ is only for use on a vehicle fitted with a tell-tale indicating failure: ~~si~~/yes - no / no ⁽¹⁾
10. Posición de la marca de homologación / *Position of the approval mark:* Ver documentación suministrada por el fabricante. / *See documentation supplied by the manufacturer.*
11. Motivo(s) de la extensión (si procede) / *Reason(s) for extension (if applicable):* ---
12. Se concede/~~deniega~~/~~extiende~~/~~retira~~ la homologación ⁽¹⁾ / *Approval granted/~~extended~~/~~refused~~/~~withdrawn~~* ⁽¹⁾
13. Homologación concedida para los dispositivos destinados a ser utilizados en vehículos ya en uso únicamente / *Approval granted for devices to be used on vehicles already in use only:* ~~si~~/yes - no / no ⁽¹⁾
14. Lugar / *Place:* Madrid
15. Fecha / *Date:* Ver firma electrónica. / *See electronic signature.*
16. Firma / *Signature:*
- EL SUBDIRECTOR GENERAL DE CALIDAD Y SEGURIDAD INDUSTRIAL
Resolución P.D. del DIRECTOR GENERAL DE INDUSTRIA Y DE LA PYME de 25-10-2012
17. La lista de los documentos depositados ante la Autoridad de homologación de Tipo que ha concedido la homologación se adjunta a la presente comunicación y puede obtenerse previa solicitud. / *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.*
- Informe del ensayo. / *Test report.*
 - Documentación suministrada por el fabricante. / *Documentation supplied by the manufacturer.*

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SUPERFICIE ILUMINANTE / ILLUMINATING SURFACE



	Límite superior / Upper boundary "U" (mm)	Límite inferior / Down boundary "D" (mm)	Límite interior / Inner boundary "I" (mm)	Límite exterior / Outer boundary "O" (mm)
Variante A / Variant A: POSICIÓN HORIZONTAL / HORIZONTAL POSITION	3.5	3.5	15.5	15.5
Variante B / Variant B: POSICIÓN VERTICAL / VERTICAL POSITION	15.5	15.5	3.5	3.5

Lugar del ensayo / Test place: L'Albornar, E-43710 Santa Oliva (Tarragona)

Fecha del ensayo / Test date: 12-13/04/2023

Joan Fonts Sala
INGENIERO DE ENSAYOS
TEST ENGINEER

- * LOS RESULTADOS PRESENTADOS SE REFIEREN ÚNICAMENTE A LA MUESTRA ENSAYADA.
THE PRESENTED RESULTS REFER ONLY TO THE TESTED SAMPLE.
- * QUEDA TERMINANTEMENTE PROHIBIDA LA REPRODUCCIÓN PARCIAL DE ESTE INFORME SIN PERMISO EXPRESO DE IDIADA.
THE PARTIAL REPRODUCTION OF THIS REPORT WITHOUT THE PERMISSION OF IDIADA IS COMPLETELY FORBIDDEN.
- * EL LABORATORIO HA CALCULADO LA INCERTIDUMBRE DE MEDIDA ASOCIADA A LOS RESULTADOS.
MEASUREMENT UNCERTAINTY OF THE RESULTS HAS BEEN CALCULATED BY THE LABORATORY.
- * LA REGLA DE DECISIÓN UTILIZADA, SEGÚN LA NORMA ILAC-G8, HA SIDO LA DECLARACIÓN BINARIA DE ACEPTACIÓN SIMPLE
THE DECISION RULE USED, ACCORDING TO THE ILAC-G8 STANDARD, WAS THE BINARY STATEMENT FOR SIMPLE ACCEPTANCE

Manufacturer:
FRISTOM Spółka z ograniczoną odpowiedzialnością Sp.K.
86-014 Sicienko / Polska
ul. Przemysłowa 5
NIP: 5542926937, KRS: 0000529238
Tel.: +48 52 360 90 51, Fax: +48 52 327 75 41



Drawn by: Karol Jonoszak
Date: 10-03-2023
Sheet: 1 of 7

Type:
FT-065 C LED

LED rear position lamp with retro reflex reflector cat IA

Light source:

LED CHIP SMD chip mounted
6 LED's red light color

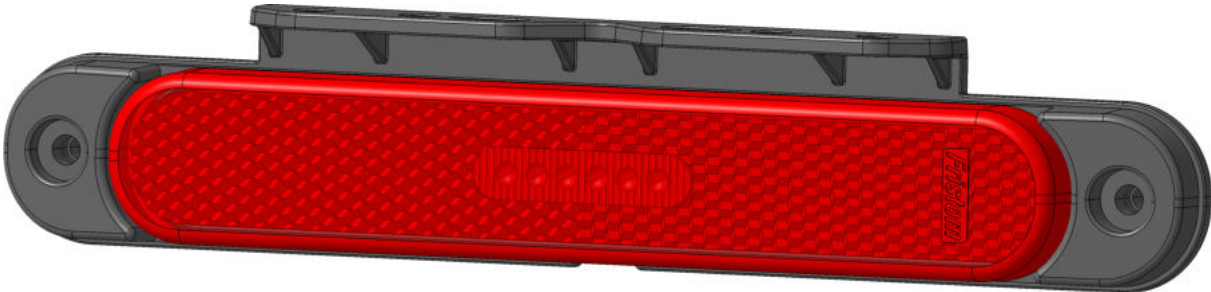
Description:

isometric lamp view

This drawing is a part of the application for approval

Material used in manufacturing :		
part	material	color
lampshade	PMMA	Red transparent
housing	Bayblend T65 XF	black
mounting bracket	PP+ Laprene	black
Self-adhesive tape	polyurethane foam	
PCB	FR4	
sealing	potting compound - epoxy resin	
cable	2 x0.75 mm ²	

FT-065 C LED - rear position lamp
R1 with retro reflex reflector cat IA



Isometric view
Scale: 1:1



Isometric view
Scale: 1:1



Isometric view
Scale: 1:1

Manufacturer:
FRISTOM Spółka z ograniczoną odpowiedzialnością Sp.K.
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Drawn by: Karol Jonoszak
Date: 10-03-2023
Sheet: 2 of 7

Type:
FT-065 C LED

LED rear position lamp with retro reflex reflector cat IA

Light source:

LED CHIP SMD chip mounted
6 LED's red light color

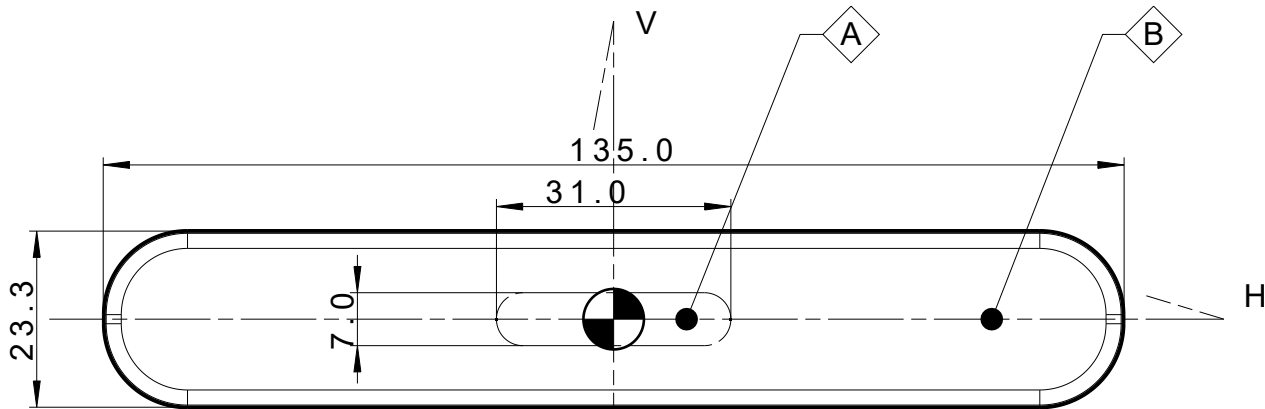
Description:

general drawing , light
emitting areas

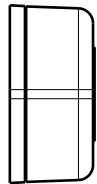
This drawing is a part of the application for approval

Material used in manufacturing :

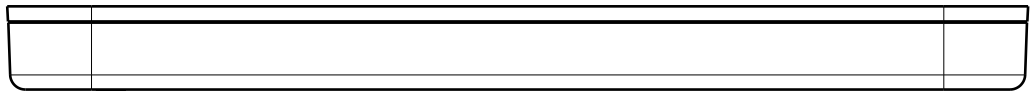
part	material	color
lampshade	PMMA	Red transparent
housing	Bayblend T65 XF	black
mounting bracket	PP+ Laprene	black
Self-adhesive tape	polyurethane foam	
PCB	FR4	
sealing	potting compound - epoxy resin	
cable	2 x0.75 mm ²	



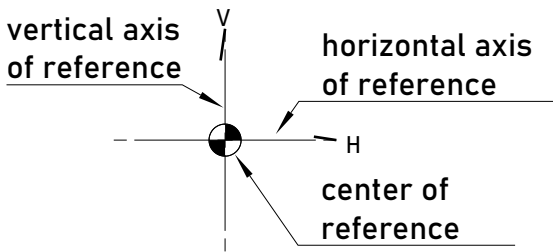
Front view
Scale: 1:1



Left view
Scale: 1:1



Top view
Scale: 1:1



A	light emitting area [SM1,R1 or A]
B	reflecting area [IA]

Manufacturer:
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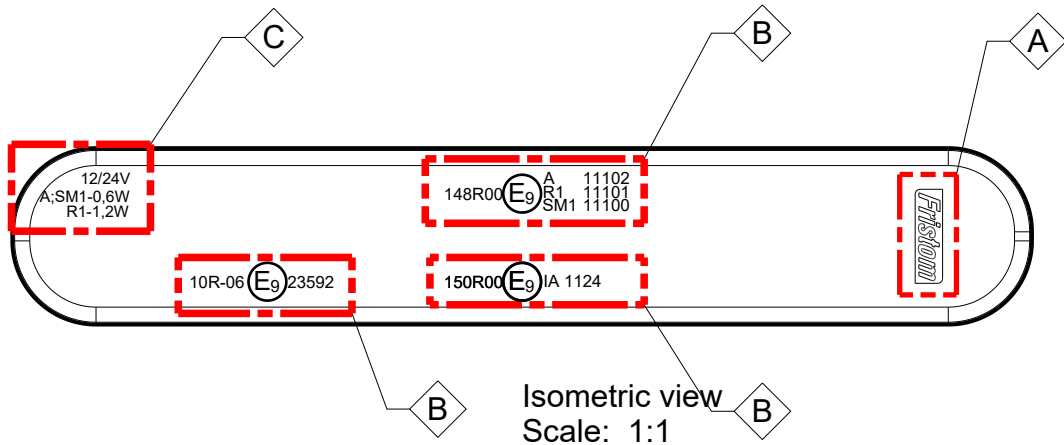
Drawn by: Karol Jonoszak
Date: 10-03-2023
Sheet: 3 of 7

Type: FT-065 C LED
LED rear position lamp with retro reflex reflector cat IA

Light source: LED CHIP SMD chip mounted
6 LED's red light color

Description: approval , trademark and electrical parameters markings
electrical connection of LED's
This drawing is a part of the application for approval

Material used in manufacturing :		
part	material	color
lampshade	PMMA	Red transparent
housing	Bayblend T65 XF	black
mounting bracket	PP+ Laprene	black
Self-adhesive tape	polyurethane foam	
PCB	FR4	
sealing	potting compound - epoxy resin	
cable	2 x0.75 mm ²	



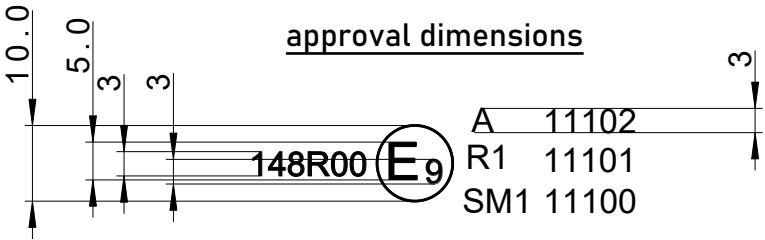
A	trademark location
B	approval number
C	electric parameters

electrical connection

6 LED's -3 serial connected in 2 parallel section

electrical data

12/24 V DC input
A;SM1-0,6 W max
R1-1,2 W max



PC23020284

Manufacturer:
FRISTOM Spółka z ograniczoną odpowiedzialnością Sp.K.
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Drawn by: Karol Jonoszak
Date: 10-03-2023
Sheet: 4 of 7

Type:
FT-065 C LED

LED rear position lamp with retro reflex reflector cat IA

Light source:

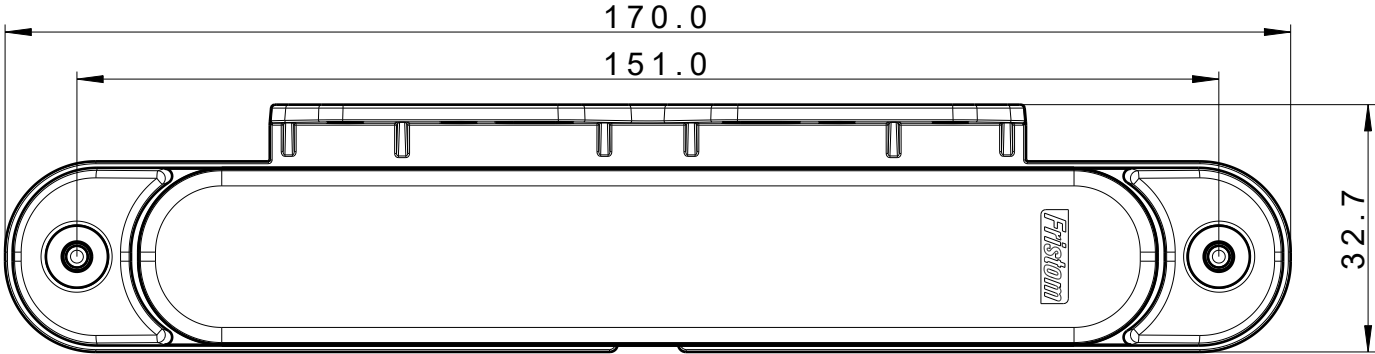
LED CHIP SMD chip mounted
6 LED's red light color

Description:

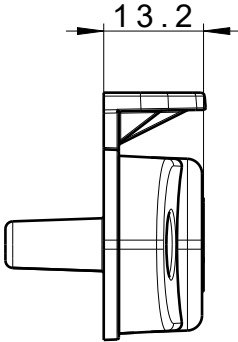
positioning on vehicle ,
assembly fittings

This drawing is a part of the application for approval

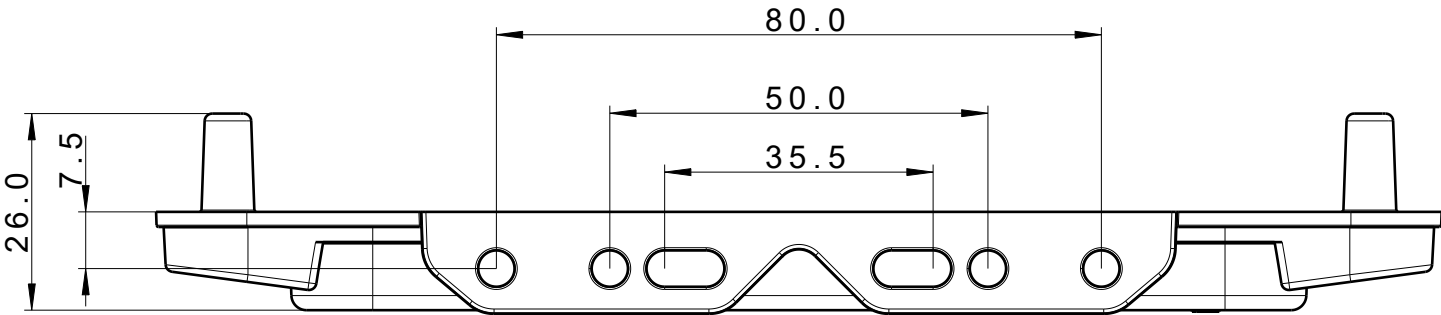
Material used in manufacturing :		
part	material	color
lampshade	PMMA	Red transparent
housing	Bayblend T65 XF	black
mounting bracket	PP+ Laprene	black
Self-adhesive tape	polyurethane foam	
PCB	FR4	
sealing	potting compound - epoxy resin	
cable	2 x0.75 mm ²	



Front view
Scale: 1:1



Left view
Scale: 1:1



Top view
Scale: 1:1

Manufacturer:
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Drawn by: Karol Jonoszak
Date: 10-03-2023
Sheet: 5 of 7

Type:
FT-065 C LED

LED rear position lamp with retro reflex reflector cat IA

Light source:

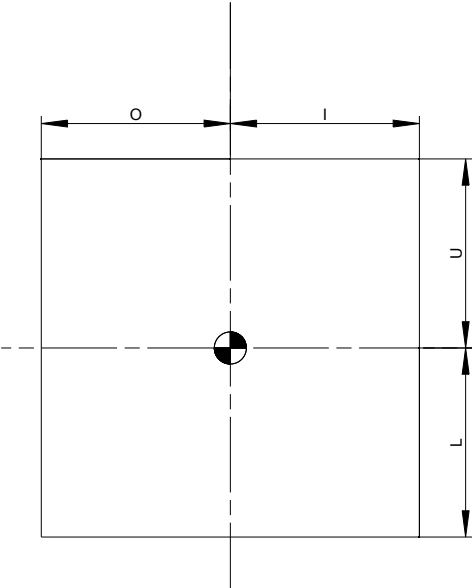
LED CHIP SMD chip mounted
6 LED's red light color

Description:

lighting surface

This drawing is a part of the application for approval

Material used in manufacturing :		
part	material	color
lampshade	PMMA	Red transparent
housing	Bayblend T65 XF	black
mouting bracket	PP+ Laprene	black
Self-adhesive tape	polyurethane foam	
PCB	FR4	
sealing	potting compound - epoxy resin	
cable	2 x0.75 mm ²	



lighting surface				
function	U (upper limit) [mm]	L (lower limit) [mm]	O (outer limit) [mm]	I (inner limit) [mm]
R 1	15,5	15,5	3,5	3,5

Determining the lower, upper and lateral limits of the ilumination surface of the lamp device.

According to ECE regulation 48/06 " Instalation of light-signalling devices clause 2.10.3.2.

Manufacturer:
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Drawn by: Karol Jonoszak
Date: 10-03-2023
Sheet: 7 of 7

Type:
FT-065 C LED

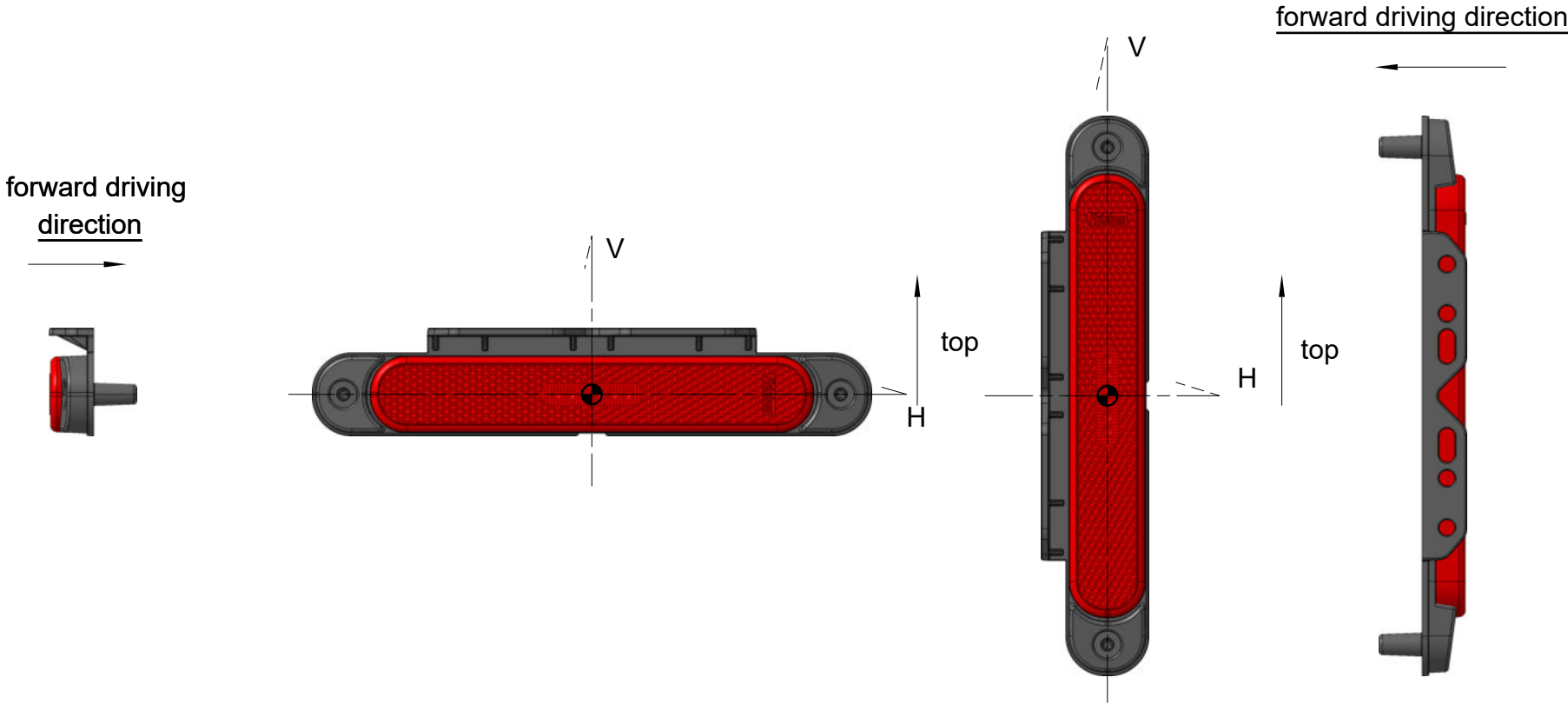
LED rear position lamp with retro reflex reflector cat IA

Light source:
LED CHIP SMD chip mounted
6 LED's red light color

Description:
variants / tradenames

This drawing is a part of the application for approval

Material used in manufacturing :		
part	material	color
lampshade	PMMA	Red transparent
housing	Bayblend T65 XF	black
mounting bracket	PP+ Laprene	black
Self-adhesive tape	polyurethane foam	
PCB	FR4	
sealing	potting compound - epoxy resin	
cable	2 x0.75 mm ²	



Manufacturer:
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Drawn by: Karol Jonoszak
Date: 10-03-2023
Sheet: 7 of 7

Type:
FT-065 C LED

LED rear position lamp with retro reflex reflector cat IA

Light source:

LED CHIP SMD chip mounted
6 LED's red light color

Description:

variants / tradenames

This drawing is a part of the application for approval

Material used in manufacturing :		
part	material	color
lampshade	PMMA	Red transparent
housing	Bayblend T65 XF	black
mounting bracket	PP+ Laprene	black
Self-adhesive tape	polyurethane foam	
PCB	FR4	
sealing	potting compound - epoxy resin	
cable	2 x0.75 mm ²	

FT-065 C LED	Clearance Lamp LED 12-36V, RED with reflector, 0.5m cable.
FT-065 C LED Mxx	Clearance Lamp LED 12-36V, RED with reflector, 0.5m cable.
FT-065 C LED QS075	Clearance Lamp LED 12-36V, RED with reflector, 0.5m cable with QS075 connector.
FT-065 C LED QS075 Mxx	Clearance Lamp LED 12-36V, RED with reflector, 0.5m cable with QS075 connector.
FT-065 C LED QS150	Clearance Lamp LED 12-36V, RED with reflector, 0.5m cable with QS150 connector.
FT-065 C LED QS150 Mxx	Clearance Lamp LED 12-36V, RED with reflector, 0.5m cable with QS150 connector.
FT-065 C+K LED	Clearance Lamp LED 12-36V, red with reflector and an angle holder, 0.5m cable.
FT-065 C+K LED Mxx	Clearance Lamp LED 12-36V, red with reflector and an angle holder, 0.5m cable.
FT-065 C+K LED QS075	Clearance Lamp LED 12-36V, red with reflector and an angle holder, 0.5m cable with QS075 connector.
FT-065 C+K LED QS075 Mxx	Clearance Lamp LED 12-36V, red with reflector and an angle holder, 0.5m cable with QS075 connector.
FT-065 C+K LED QS150	Clearance Lamp LED 12-36V, red with reflector and an angle holder, 0.5m cable with QS150 connector.
FT-065 C+K LED QS150 Mxx	Clearance Lamp LED 12-36V, red with reflector and an angle holder, 0.5m cable with QS150 connector.
FT-065 C LED TAPE	Clearance Lamp LED 12-36V, RED with reflector, mounting on self-adhesive tape, 0.5m cable.
FT-065 C LED TAPE Mxx	Clearance Lamp LED 12-36V, RED with reflector, mounting on self-adhesive tape, 0.5m cable.
FT-065 C LED TAPE QS075	Clearance Lamp LED 12-36V, RED with reflector, mounting on self-adhesive tape, 0.5m cable with QS075 connector.
FT-065 C LED TAPE QS075 Mxx	Clearance Lamp LED 12-36V, RED with reflector, mounting on self-adhesive tape, 0.5m cable with QS075 connector.
FT-065 C LED TAPE QS150	Clearance Lamp LED 12-36V, RED with reflector, mounting on self-adhesive tape, 0.5m cable with QS150 connector.
FT-065 C LED TAPE QS150 Mxx	Clearance Lamp LED 12-36V, RED with reflector, mounting on self-adhesive tape, 0.5m cable with QS150 connector.

* where x is a digit between 0-9

IDIADA PC23020284