



E9*150R00/04*1124*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~~La retirada de homologación / *Approval withdrawn*~~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 dispositivo catadióptrico / *of a type of retro-reflective device*
~~de un tipo de triángulo de preseñalización / *of a type of advance warning triangle*~~
~~de un tipo de placa de identificación trasera para vehículos lentos / *of a type of SMV rear marking plate*~~
~~de un tipo de placa de identificación trasera / *of a type of rear marking plate*,~~
~~de marcas reflectantes de vehículos largos y pesados y de sus remolques / *of retro-reflective markings of heavy and long vehicles and their trailers*~~
en aplicación del Reglamento UN N° 150. / *pursuant to UN Regulation No. 150.*

Clase del dispositivo / *Class of the device:* IA Cambio de índice / *Change index:* ---

N° de homologación / *Approval No.:* E9*150R00/04*1124*00

Identificador Único (Si procede) / *Unique Identifier (UI) (If applicable):* ---

1. Marca de fábrica o comercial del dispositivo catadióptrico o material de marcaje / *Trade name or mark of the retro-reflective device or marking material:* Fristom
2. Nombre del fabricante / *Manufacturer's name:*
FRISTOM SPÓLKA Z OGRANICZONA ODPOWIEDZIALNOSCIA SPÓLKA KOMANDYTOWA
 - 2.1. para el tipo de dispositivo catadióptrico / *for the retro-reflecting type of device:*
FT-065 B LED/FT-065 C LED/FT-065 Z LED
 - 2.2. para el triángulo de preseñalización / *for the advance warning triangle:* --
 - 2.3. para el tipo de placa de identificación trasera para vehículos lentos / *for the SMV rear marking plate type:* --
 - 2.3.1. Clase de placa de identificación trasera del SMV / *SMV rear marking plate class:* --
 - 2.4. para el tipo de placa de identificación trasera / *for the rear marking plate type:* --
 - 2.4.1. Clase de placa de marcaje trasera / *Rear marking plate class:* --
 - 2.5. Clase del material de marcaje / *Class of the marking material:* --

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





E9*150R00/04*1124*00

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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 manufacturer's representative*: ---
5. Fecha de presentación del material de marcado para los ensayos de homologación / *Date on which the marking material was submitted for approval tests*: 13/04/2023
6. Servicio técnico encargado de realizar el ensayo de homologación / *Technical service responsible for carrying out the approval test*: IDIADA
7. Fecha del informe de ensayo emitido por el servicio técnico / *Date of test report issued by the technical service*: 24/05/2023
8. Número del informe de ensayo emitido por el servicio técnico / *Number of test report issued by the technical service*: PC23020283
9. Breve descripción / *Concise description*:
- Aislado / forma parte de un conjunto de dispositivos ⁽¹⁾ / ~~In isolation~~ / *part of an assembly of devices* ⁽¹⁾
 - Color de la luz emitida: blanco / rojo / amarillo auto ⁽¹⁾ / *Colour of light emitted: white / red / amber* ⁽¹⁾
 - Montaje como parte integrante de una luz integrada en la carrocería de un vehículo / *Installation as an integral part of a lamp, which is integrated into the body of a vehicle*: ~~sí~~ / *yes* - no / *no* ⁽¹⁾
 - Condiciones geométricas de instalación y variaciones relacionadas, en su caso / *Geometrical conditions of installation and relating variations, if any*: Ver documentación técnica / *See technical documentation*
 - Solamente para instalación limitada en altura igual o inferior a 750 mm por encima del suelo / *Only for limited mounting height of equal to or less than 750 mm above the ground*: ~~sí~~ / *yes* - no / *no* ⁽¹⁾
10. Se concede/~~deniega~~/extiende/~~retira~~ la homologación ⁽¹⁾ / *Approval granted/extended/refused/withdrawn* ⁽¹⁾
11. Motivo(s) de la extensión (si procede) / *Reason(s) for extension (if applicable)*: ---
12. Posición de la marca de homologación / *Position of the approval mark*: Ver documentación suministrada por el fabricante / *See documentation supplied by the manufacturer.*

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





E9*150R00/04*1124*00

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13. Lugar / Place: Madrid

14. Fecha / Date: Ver firma electrónica. / See electronic signature.

15. 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

16. Se adjunta una lista de los documentos que componen el expediente de homologación, depositados ante la Autoridad de homologación de Tipo que concedió la homologación; puede obtenerse una copia previa solicitud.
/ Annexed is a list of documents making up the approval file, deposited with the Type Approval Authority which granted approval; a copy can be obtained on request.

- Informe del ensayo. / Test report.
- Documentación suministrada por el fabricante. / Documentation supplied by the manufacturer.

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



INFORMATION FOLDER:

FIRST APPLICATION
DATE:10.03.2023

1. Specification data

Type	FT-065 B LED/FT-065 C LED/FT-065 Z LED	
Trade name or mark	Fristom	
Variants	See drawing	
Function	Retro reflex reflector cat IA	
Color	White , red , amber	
Rated	Voltage	-
	Wattage	-
Applicable Regulation		R150
Light Source and connection		See the drawing
Location of marking	Light Source marks	See the drawing
	Trade mark	Marked on lampshade
	Approval mark	Marked on lampshade

2. Construction and material

Construction	Material	Remarks
Lenses	Defined on the technical drawing	--
Reflectors	Defined on the technical drawing	--
Bases	Defined on the technical drawing	--

3. Name and address of manufacturer:

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

4. REASON OF THE APPROVAL EXTENSION:

-

NOTE : APPROVAL MARKINGS ARE SHOWN IN THE ATTACHED DRAWING.
THIS INFORMATION FOLDER CONSISTS OF 1 PAGES

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 B LED

LED front position lamp

Light source:

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

Description:

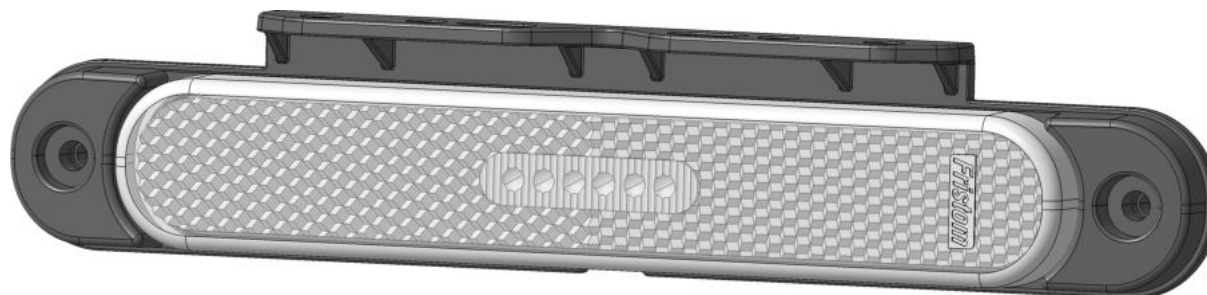
isometric lamp view

This drawing is a part of the application for approval

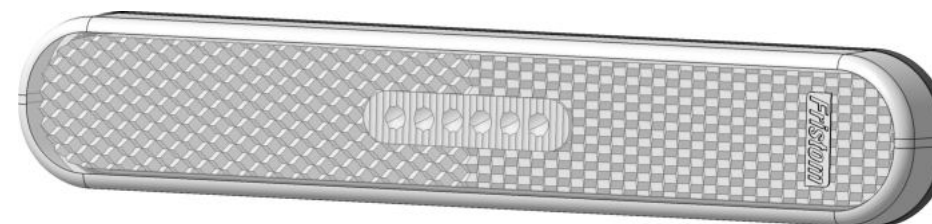
Material used in manufacturing :

part	material	color
lampshade	PMMA	clear 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	

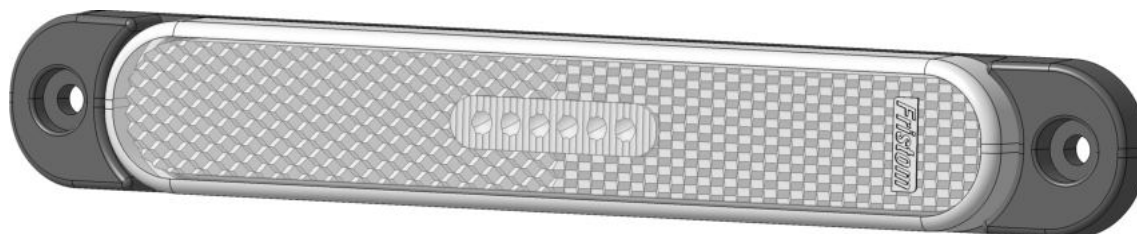
FT-065 B LED - front position lamp A with
retro reflex reflector cat 1A



Isometric view
Scale: 1:1



Isometric view
Scale: 1:1



Isometric view
Scale: 1:1

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: 2 of 7

Type:
FT-065 B LED

LED front position lamp

Light source:

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

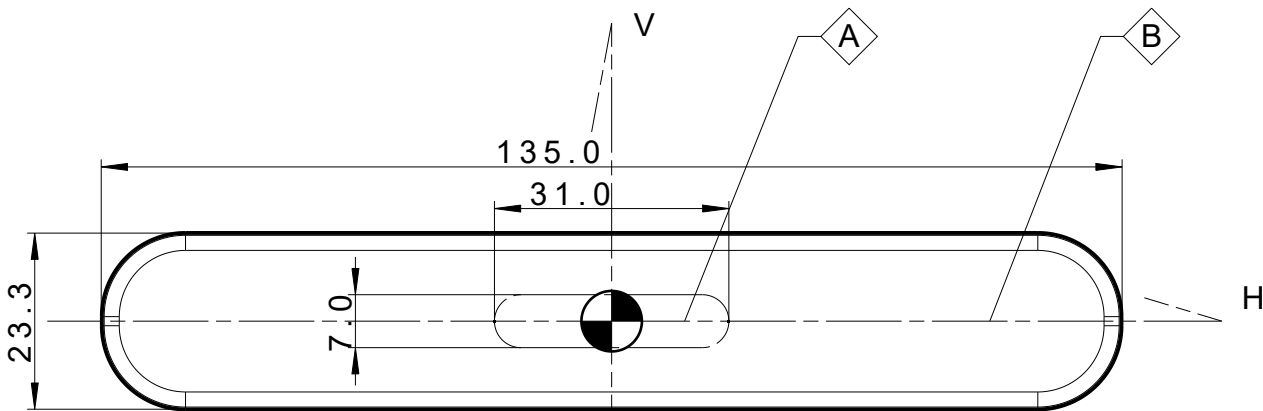
Description:

**general drawing , light
emitting areas**

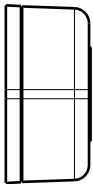
This drawing is a part of the application for approval

Material used in manufacturing :

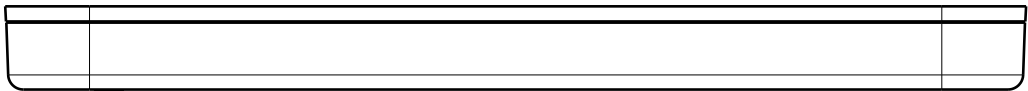
part	material	color
lampshade	PMMA	clear transparent
housing	Bayblend T65 XF	black
mouting bracket	PP+ Laprene	black
Self-adhesive tape	polyurethane foam	
PCB	FR4	
sealing	potting compound - epoxy resin	
cable	2 x0.75 mm ²	



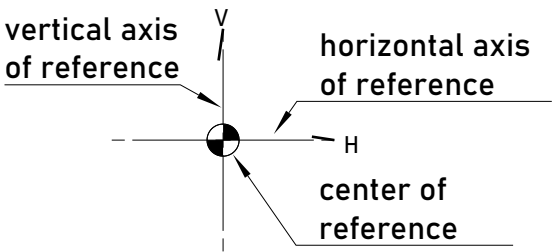
Front view
Scale: 1:1



Left view
Scale: 1:1



Top view
Scale: 1:1



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

Manufacturer:
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: 3 of 7

Type:
FT-065 B LED

LED front position lamp

Light source:

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

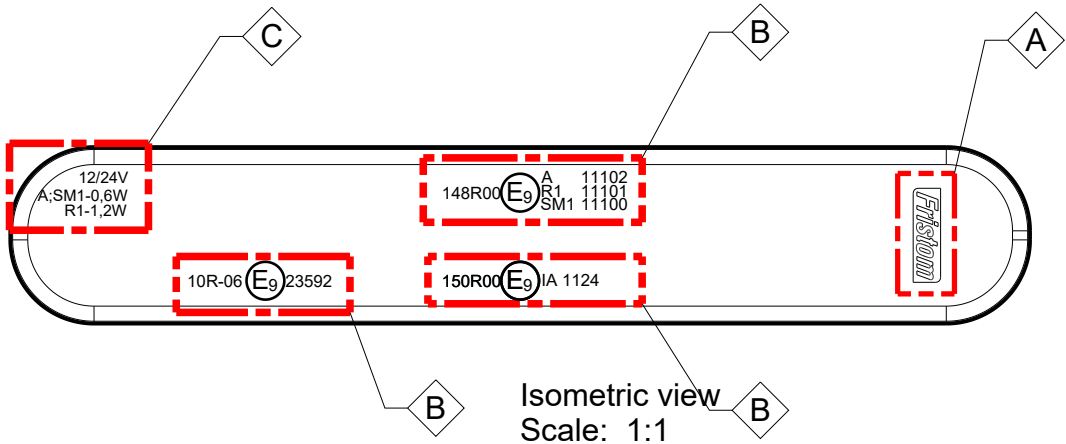
Description:

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	clear 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	



Isometric view
Scale: 1:1

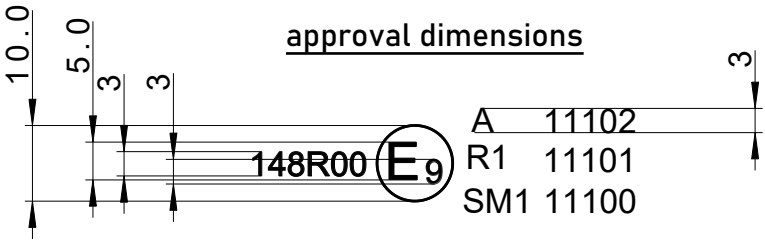
A	trademark location
B	approval number
C	electric parameters

electrical connection

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

electrical data

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



PC23020283

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

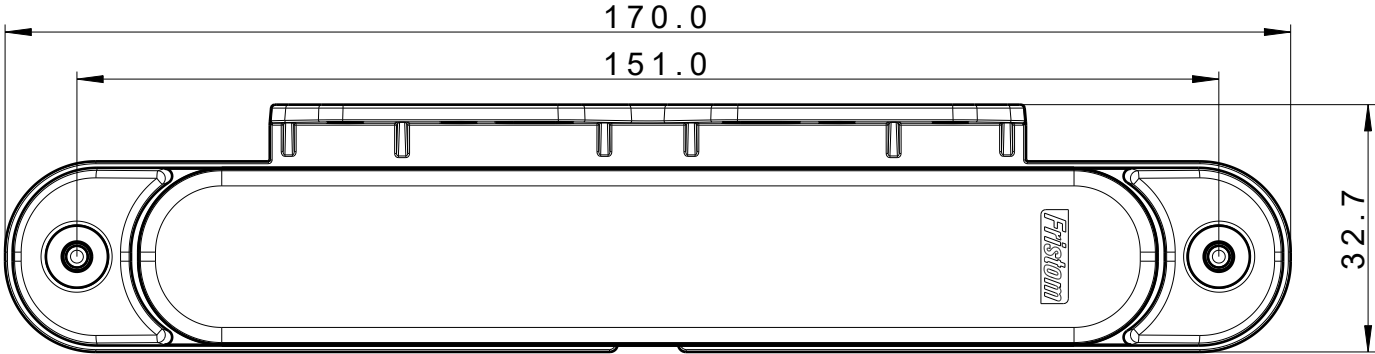
Type:
FT-065 B LED

LED front position lamp

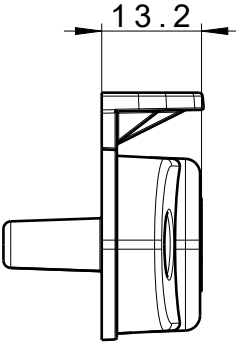
Light source:
LED CHIP SMD chip mounted
6 LED's white light color

Description:
positioning on vehicle ,
assembly fittings
This drawing is a part of the application for approval

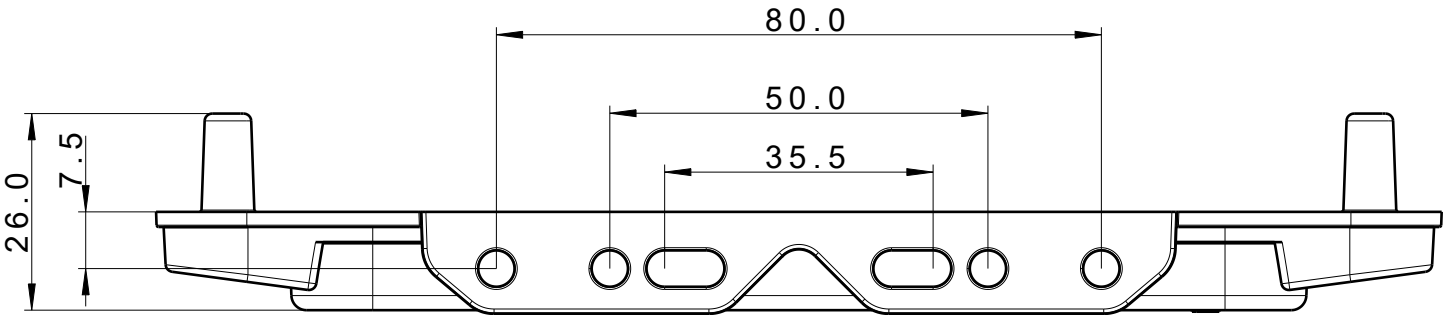
Material used in manufacturing :		
part	material	color
lampshade	PMMA	clear transparent
housing	Bayblend T65 XF	black
mounting bracket	PP+ Laprene	black
Self-adhesive tape	polyurethane foam	
PCB	FR4	
sealing	potting compound - epoxy resin	
cable	2 x0.75 mm ²	



Front view
Scale: 1:1



Left view
Scale: 1:1



Top view
Scale: 1:1

Manufacturer:
FRISTOM Spółka z ograniczoną odpowiedzialnością Sp.K.
86-014 Sicienka / 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: 5 of 7

Type:
FT-065 B LED

LED front position lamp

Light source:

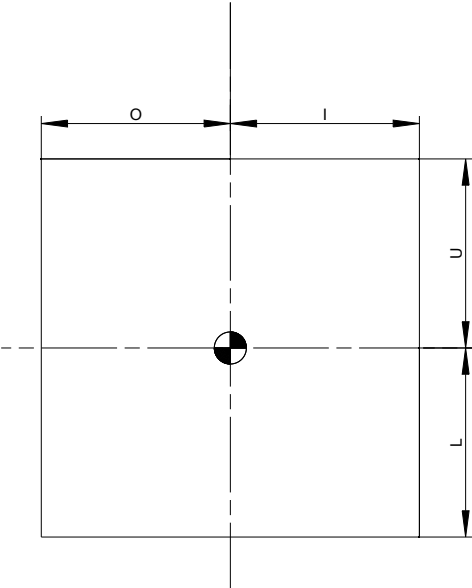
LED CHIP SMD chip mounted
6 LED's white light color

Description:

lighting surface

This drawing is a part of the application for approval

Material used in manufacturing :		
part	material	color
lampshade	PMMA	clear 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	



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

Determining the lower, upper and lateral limits of the illumination 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: 6 of 7
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Type:
FT-065 B LED

LED front position lamp

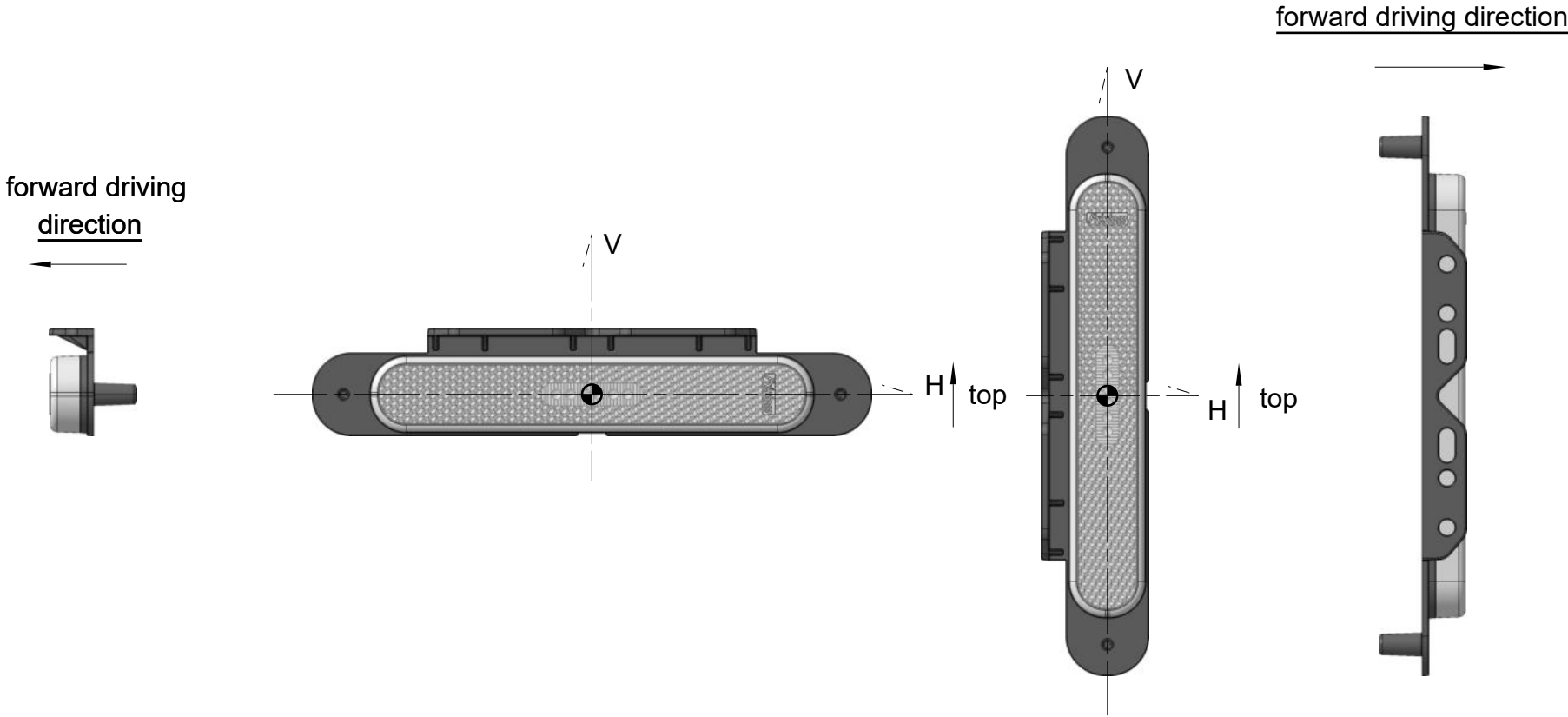
Light source:

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

Description:
lighting surface

This drawing is a part of the application for approval

Material used in manufacturing :		
part	material	color
lampshade	PMMA	clear 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	



Manufacturer:
FRISTOM Spółka z ograniczoną odpowiedzialnością Sp.K.
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Drawn by: Karol Jonoszak	Date: 10-03-2023	Sheet: 7 of 7
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Type:
FT-065 B LED

LED front position lamp

Light source: LED CHIP SMD chip mounted 6 LED's white light color	Description: variants / tradenames This drawing is a part of the application for approval
--	--

Material used in manufacturing :		
part	material	color
lampshade	PMMA	clear 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	

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

* where x is a digit between 0-9

İİDİADA PC23020283

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

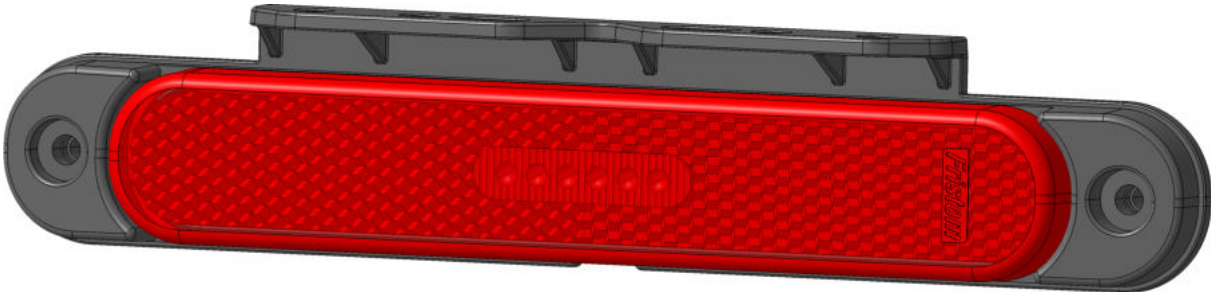
Light source:
LED CHIP SMD chip mounted
6 LED's red light color

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.
86-014 Sicienko / Polska
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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

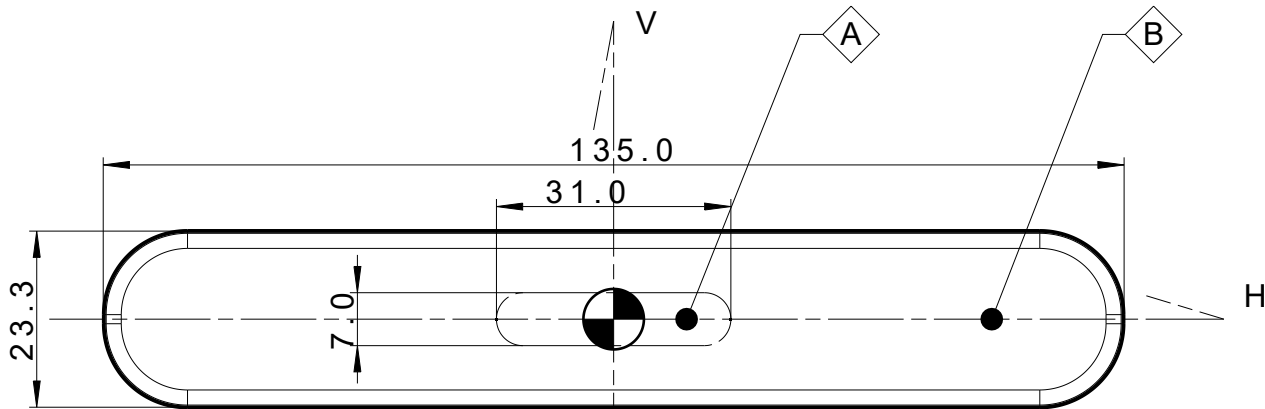
Description:

general drawing , light
emitting areas

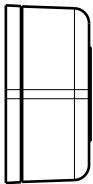
This drawing is a part of the application for approval

Material used in manufacturing :

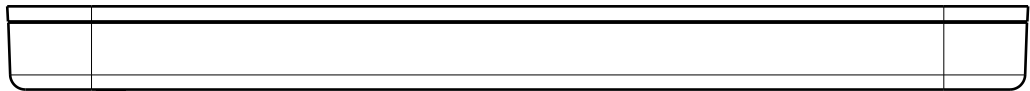
part	material	color
lampshade	PMMA	Red transparent
housing	Bayblend T65 XF	black
mounting bracket	PP+ Laprene	black
Self-adhesive tape	polyurethane foam	
PCB	FR4	
sealing	potting compound - epoxy resin	
cable	2 x0.75 mm ²	



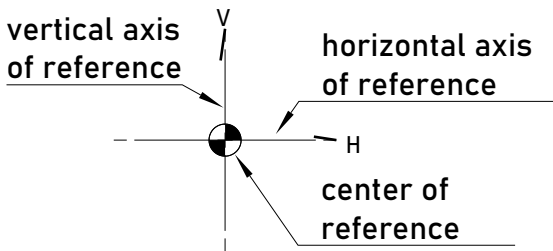
Front view
Scale: 1:1



Left view
Scale: 1:1



Top view
Scale: 1:1



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

Manufacturer:
FRISTOM Spółka z ograniczoną odpowiedzialnością Sp.K.
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NIP: 5542926937, KRS: 0000529238
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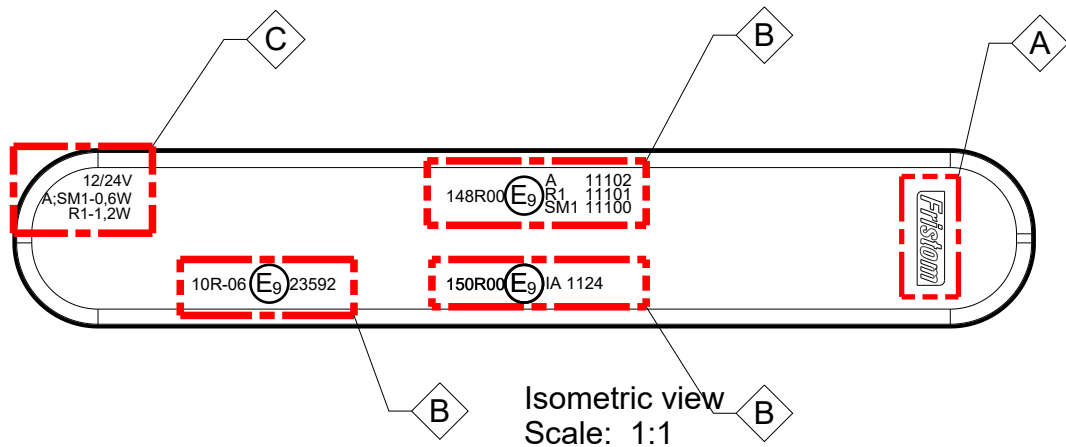
Drawn by: Karol Jonoszak
Date: 10-03-2023
Sheet: 3 of 7

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	



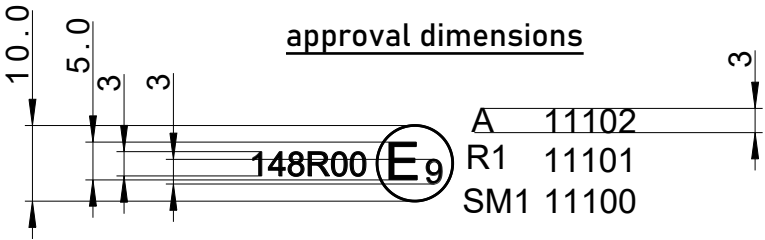
A	trademark location
B	approval number
C	electric parameters

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



PC23020283

Manufacturer:
FRISTOM Spółka z ograniczoną odpowiedzialnością Sp.K.
86-014 Sicienka / 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: 4 of 7

Type:
FT-065 C LED

LED rear position lamp with retro reflex reflector cat IA

Light source:

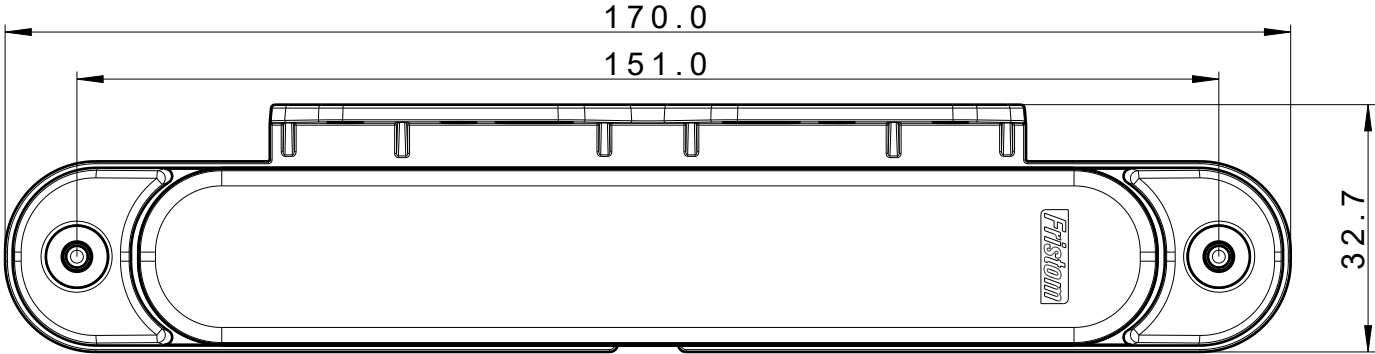
LED CHIP SMD chip mounted
6 LED's red light color

Description:

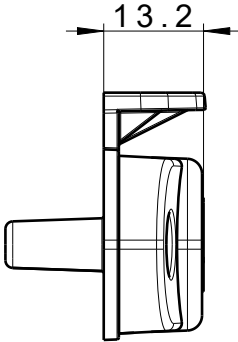
positioning on vehicle ,
assembly fittings

This drawing is a part of the application for approval

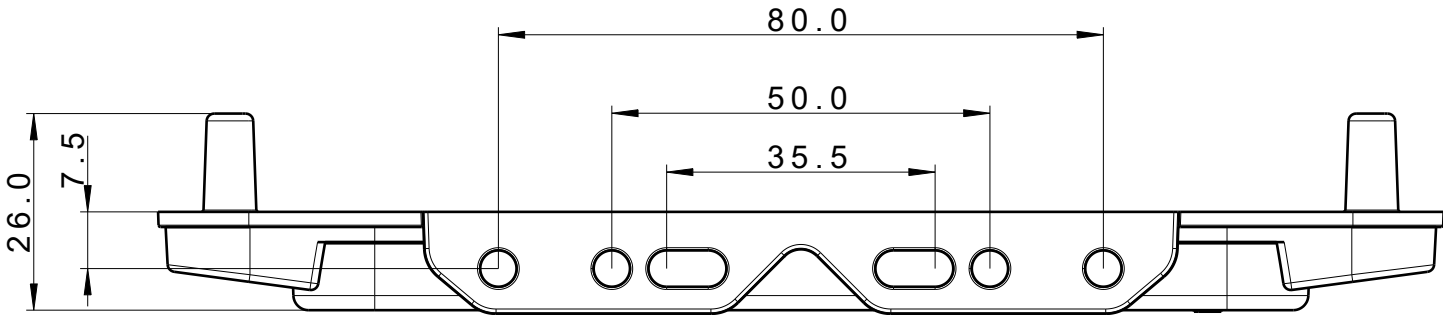
Material used in manufacturing :		
part	material	color
lampshade	PMMA	Red transparent
housing	Bayblend T65 XF	black
mounting bracket	PP+ Laprene	black
Self-adhesive tape	polyurethane foam	
PCB	FR4	
sealing	potting compound - epoxy resin	
cable	2 x0.75 mm ²	



Front view
Scale: 1:1



Left view
Scale: 1:1



Top view
Scale: 1:1

Manufacturer:
FRISTOM Spółka z ograniczoną odpowiedzialnością Sp.K.
86-014 Sicienko / Polska
ul. Przemysłowa 5
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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:

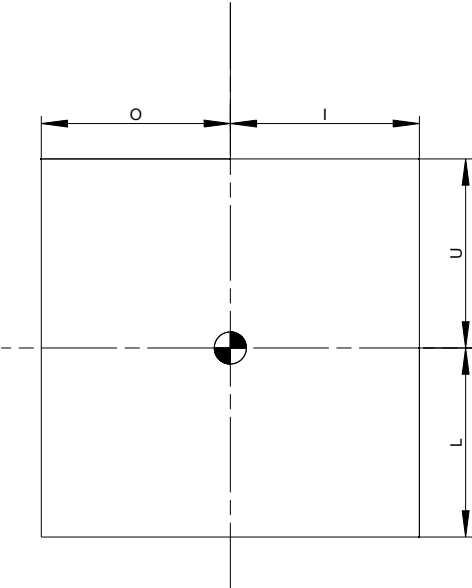
LED CHIP SMD chip mounted
6 LED's red light color

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:
FRISTOM Spółka z ograniczoną odpowiedzialnością Sp.K.
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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:

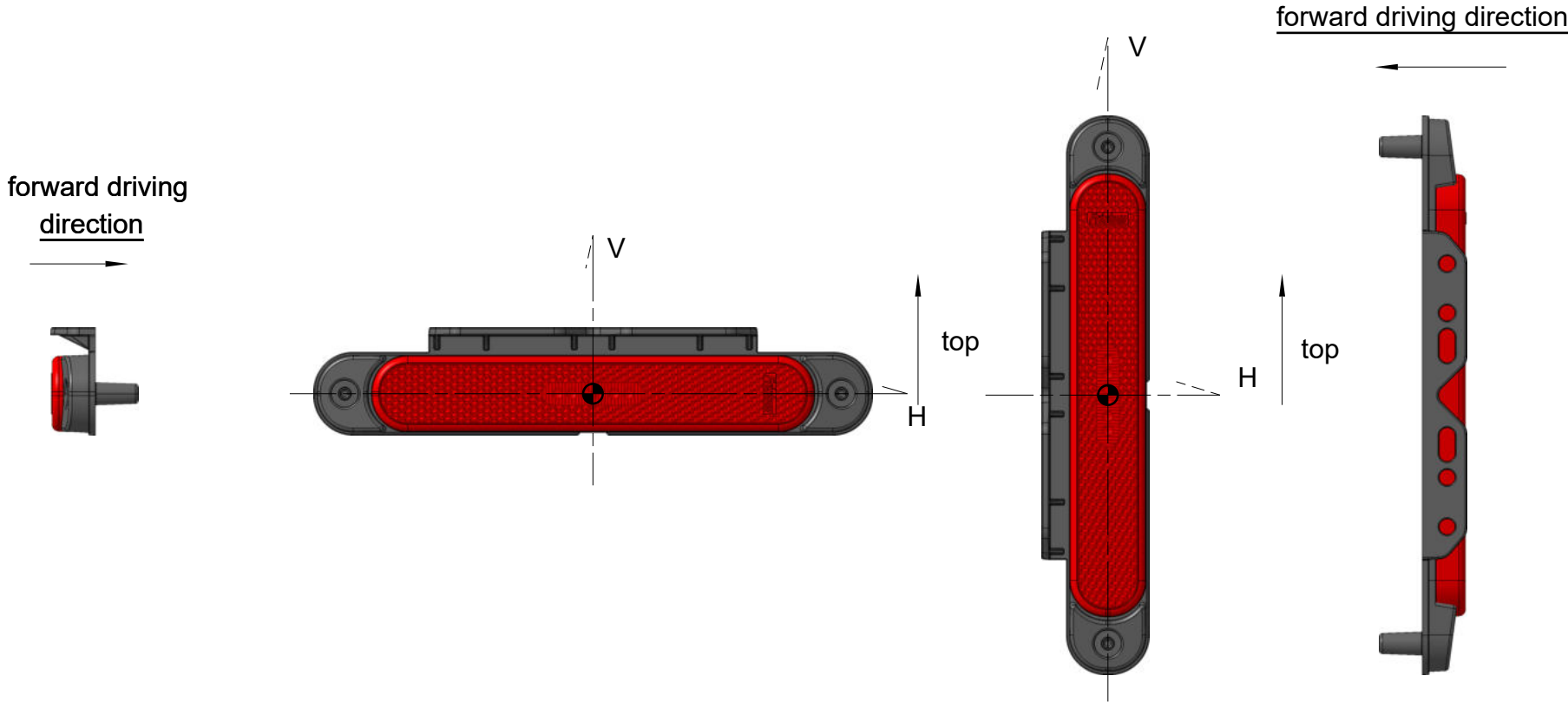
LED CHIP SMD chip mounted
6 LED's red light color

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

Manufacturer:

FRISTOM Spółka z ograniczoną odpowiedzialnością Sp.K.
86-014 Sicienka / 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 Z LED

LED sidemarking lamp with retro reflex reflector cat IA

Light source:

LED CHIP SMD chip mounted
6 LED's white 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	amber 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 Z LED - sidemarking lamp
SM1 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.
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: 2 of 7

Type:
FT-065 Z LED

LED sidemarking lamp with retro reflex reflector cat IA

Light source:

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

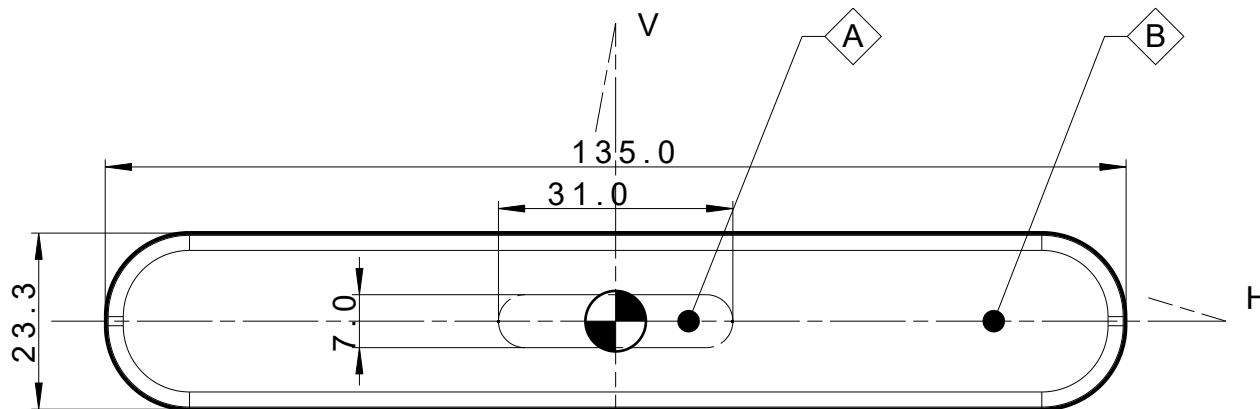
Description:

general drawing , light
emitting areas

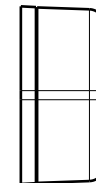
This drawing is a part of the application for approval

Material used in manufacturing :

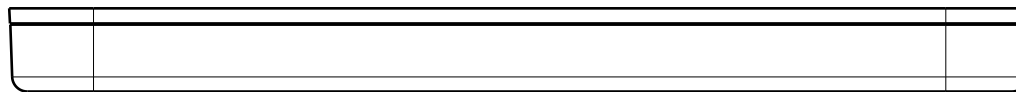
part	material	color
lampshade	PMMA	amber transparent
housing	Bayblend T65 XF	black
mounting bracket	PP+ Laprene	black
Self-adhesive tape	polyurethane foam	
PCB	FR4	
sealing	potting compound - epoxy resin	
cable	2 x0.75 mm ²	



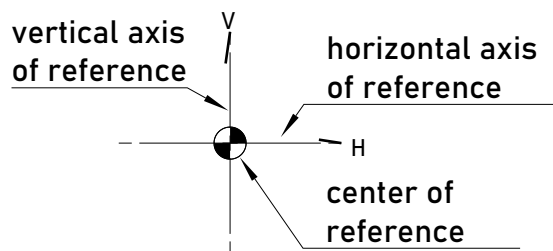
Front view
Scale: 1:1



Left view
Scale: 1:1



Top view
Scale: 1:1



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

Manufacturer:
FRISTOM Spółka z ograniczoną odpowiedzialnością Sp.K.
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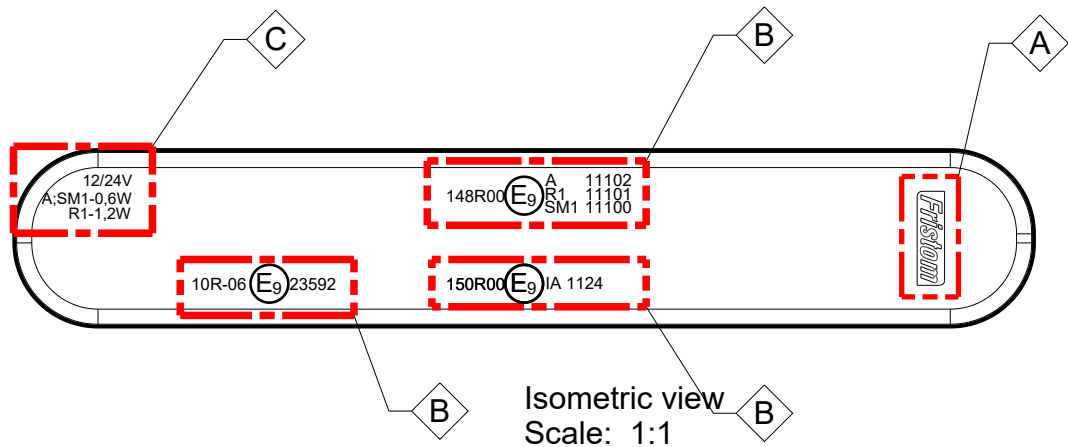
Drawn by: Karol Jonoszak
Date: 10-03-2023
Sheet: 3 of 7

Type: FT-065 Z LED
LED sidemarking lamp with retro reflex reflector cat IA

Light source: LED CHIP SMD chip mounted
6 LED's white 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	amber 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	



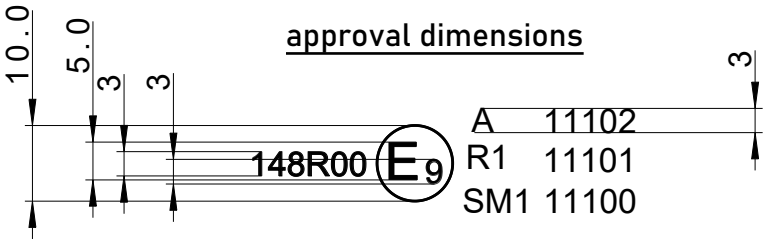
A	trademark location
B	approval number
C	electric parameters

electrical connection

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

electrical data

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



Manufacturer:
FRISTOM Spółka z ograniczoną odpowiedzialnością Sp.K.
86-014 Sicienko / Polska
ul. Przemysłowa 5
NIP: 5542926937, KRS: 0000529238
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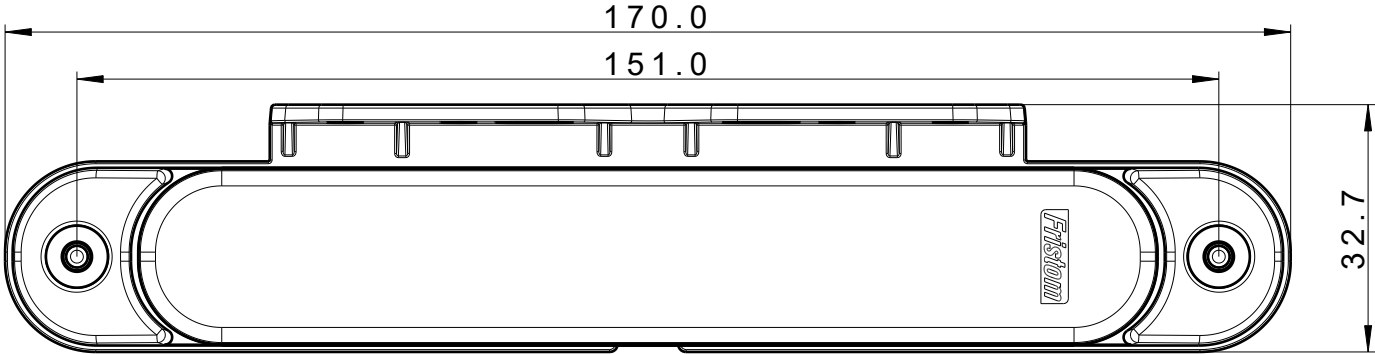
Drawn by: Karol Jonoszak
Date: 10-03-2023
Sheet: 4 of 7

Type:
FT-065 Z LED
LED sidemarking lamp with retro reflex reflector cat IA

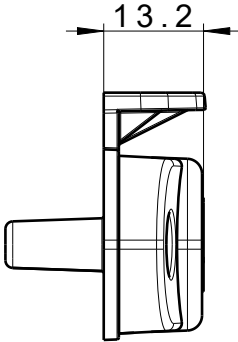
Light source:
LED CHIP SMD chip mounted
6 LED's white light color

Description:
positioning on vehicle ,
assembly fittings
This drawing is a part of the application for approval

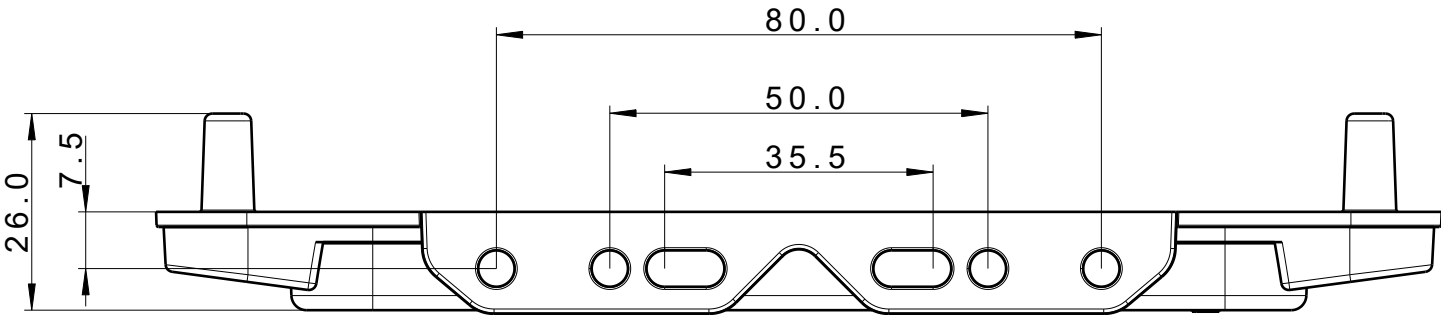
Material used in manufacturing :		
part	material	color
lampshade	PMMA	amber transparent
housing	Bayblend T65 XF	black
mounting bracket	PP+ Laprene	black
Self-adhesive tape	polyurethane foam	
PCB	FR4	
sealing	potting compound - epoxy resin	
cable	2 x0.75 mm ²	



Front view
Scale: 1:1



Left view
Scale: 1:1



Top view
Scale: 1:1

Manufacturer:
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: 5 of 7

Type:
FT-065 Z LED

LED sidemarking lamp with retro reflex reflector cat IA

Light source:

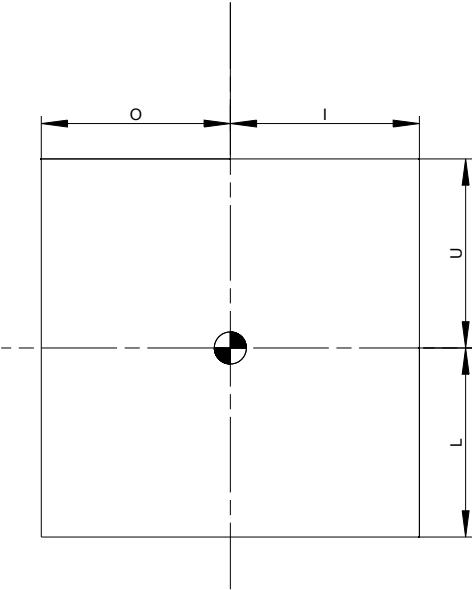
LED CHIP SMD chip mounted
6 LED's white light color

Description:

lighting surface

This drawing is a part of the application for approval

Material used in manufacturing :		
part	material	color
lampshade	PMMA	amber 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]
SM 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:
FRISTOM Spółka z ograniczoną odpowiedzialnością Sp.K.
86-014 Sicienko / Polska
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Drawn by: Karol Jonoszak
Date: 10-03-2023
Sheet: 7 of 7

Type:
FT-065 Z LED
LED sidemarking lamp with retro reflex reflector cat IA

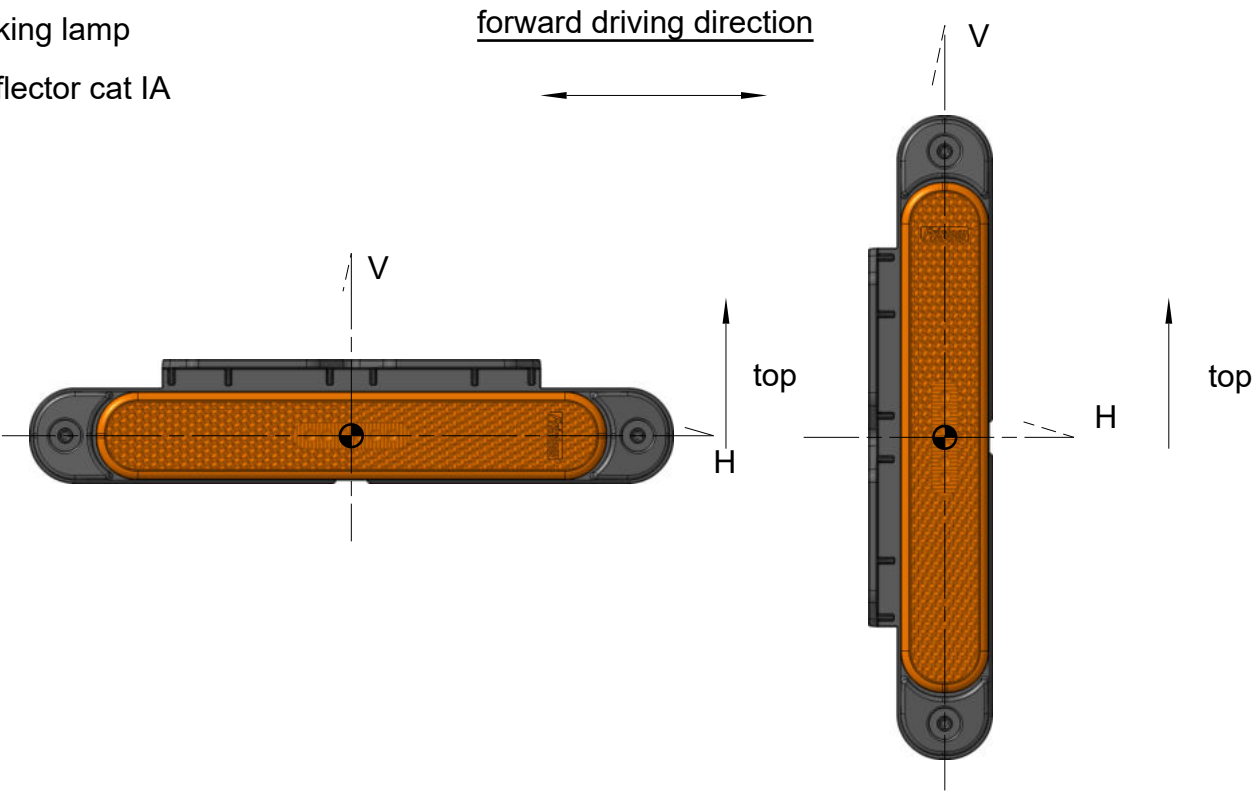
Light source:
LED CHIP SMD chip mounted
6 LED's white light color

Description:
variants / tradenames

This drawing is a part of the application for approval

Material used in manufacturing :		
part	material	color
lampshade	PMMA	amber 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	

FT-065 Z LED sidemarking lamp
SM1 with retro reflex reflector cat IA



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

Type:
FT-065 Z LED

LED sidemarking lamp with retro reflex reflector cat IA

Light source: LED CHIP SMD chip mounted 6 LED's white light color	Description: variants / tradenames This drawing is a part of the application for approval
--	--

Material used in manufacturing :		
part	material	color
lampshade	PMMA	amber 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 Z LED	Clearance Lamp LED 12-36V, YELLOW with reflector, 0.5m cable.
FT-065 Z LED Mxx	Clearance Lamp LED 12-36V, YELLOW with reflector, 0.5m cable.
FT-065 Z LED QS075	Clearance Lamp LED 12-36V, YELLOW with reflector, 0.5m cable with QS075 connector.
FT-065 Z LED QS075 Mxx	Clearance Lamp LED 12-36V, YELLOW with reflector, 0.5m cable with QS075 connector.
FT-065 Z LED QS150	Clearance Lamp LED 12-36V, YELLOW with reflector, 0.5m cable with QS150 connector.
FT-065 Z LED QS150 Mxx	Clearance Lamp LED 12-36V, YELLOW with reflector, 0.5m cable with QS150 connector.
FT-065 Z+K LED	Clearance Lamp LED 12-36V, yellow with reflector and an angle holder, 0.5m cable.
FT-065 Z+K LED Mxx	Clearance Lamp LED 12-36V, yellow with reflector and an angle holder, 0.5m cable.
FT-065 Z+K LED QS075	Clearance Lamp LED 12-36V, yellow with reflector and an angle holder, 0.5m cable with QS075 connector.
FT-065 Z+K LED QS075 Mxx	Clearance Lamp LED 12-36V, yellow with reflector and an angle holder, 0.5m cable with QS075 connector.
FT-065 Z+K LED QS150	Clearance Lamp LED 12-36V, yellow with reflector and an angle holder, 0.5m cable with QS150 connector.
FT-065 Z+K LED QS150 Mxx	Clearance Lamp LED 12-36V, yellow with reflector and an angle holder, 0.5m cable with QS150 connector.
FT-065 Z LED TAPE	Clearance Lamp LED 12-36V, YELLOW with reflector, mounting on self-adhesive tape, 0.5m cable.
FT-065 Z LED TAPE Mxx	Clearance Lamp LED 12-36V, YELLOW with reflector, mounting on self-adhesive tape, 0.5m cable.
FT-065 Z LED TAPE QS075	Clearance Lamp LED 12-36V, YELLOW with reflector, mounting on self-adhesive tape, 0.5m cable with QS075 connector.
FT-065 Z LED TAPE QS075 Mxx	Clearance Lamp LED 12-36V, YELLOW with reflector, mounting on self-adhesive tape, 0.5m cable with QS075 connector.
FT-065 Z LED TAPE QS150	Clearance Lamp LED 12-36V, YELLOW with reflector, mounting on self-adhesive tape, 0.5m cable with QS150 connector.
FT-065 Z LED TAPE QS150 Mxx	Clearance Lamp LED 12-36V, YELLOW with reflector, mounting on self-adhesive tape, 0.5m cable with QS150 connector.

* where x is a digit between 0-9

PC23020283
iDiADA