



MINISTERIO
DE INDUSTRIA
Y TURISMO

SECRETARÍA DE ESTADO DE
INDUSTRIA

DIRECCIÓN GENERAL DE ESTRATEGIA
INDUSTRIAL Y DE LA PEQUEÑA Y
MEDIANA EMPRESA

E9*150R00/05*1233*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~~La retirada de homologación / *Approval withdrawn*~~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 / Cambio de índice /
Class of the device: IA *Change index:* ---

Nº de homologación / *Approval No.:* E9*150R00/05*1233*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-001 B LED/ FT-001 C LED/ FT-001 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.*



Firmado el 20/06/2024 18:36:55 : JORDI GARCIA BRUSTENGA, Director General de Estrategia Industrial y de la Pyme de Direccion General de Estrategia Industrial y de la Pequeña y Mediana Empresa.



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E9*150R00/05*1233*00

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3. Nombre y dirección del fabricante / *Manufacturer's name and address*:
FRISTOM SPÓLKA Z OGRANICZONA ODPOWIEDZIALNOSCIA SPÓLKA KOMANDYTOWA
ul. Przemyslowa 5, 86-014, Sicienko, BYDGOSZCZ (POLONIA / POLAND)
- 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*: 03/04/2024
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*: 03/06/2024
8. Número del informe de ensayo emitido por el servicio técnico / *Number of test report issued by the technical service*: PC24020031
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*: ~~si~~ yes - no / no ⁽¹⁾
 - Condiciones geométricas de instalación y variaciones relacionadas, en su caso / *Geometrical conditions of installation and relating variations, if any*: Instalación vertical y horizontal / *Vertical and horizontal assembly*.
 - 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*: ~~si~~ 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*: Marcado en la lente / *Marked on lampshade*.

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



Firmado el 20/06/2024 18:36:55 : JORDI GARCIA BRUSTENGA, Director General de Estrategia Industrial y de la Pyme de Direccion General de Estrategia Industrial y de la Pequeña y Mediana Empresa.



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E9*150R00/05*1233*00

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13. Lugar / Place: Madrid
14. Fecha / Date: Ver firma electrónica. / *See electronic signature.*
15. Firma / Signature:
- EL DIRECTOR GENERAL DE ESTRATEGIA INDUSTRIAL Y DE LA PEQUEÑA Y MEDIANA
EMPRESA
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.*

Pº DE LA CASTELLANA, 160, 10ª - 28071 MADRID
SEDE-E <https://sedeaplicaciones.minetur.gob.es/consultasSGCSI/>

TLF.: 91 349.51.08



Código: 15233553-66009902I2LAUBI1SCDW Autenticidad verificable en: <https://serviciosmin.gob.es/arce>
Documento electrónico, página 3 de 5.

INFORMATION FOLDER:

FIRST APPLICATION
DATE: 16.04.2024

1. Specification data

Type	FT-001 B LED/ FT-001 C LED/ FT-001 Z LED	
Trade name or mark	Fristom	
Variants	See drawing	
Function	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



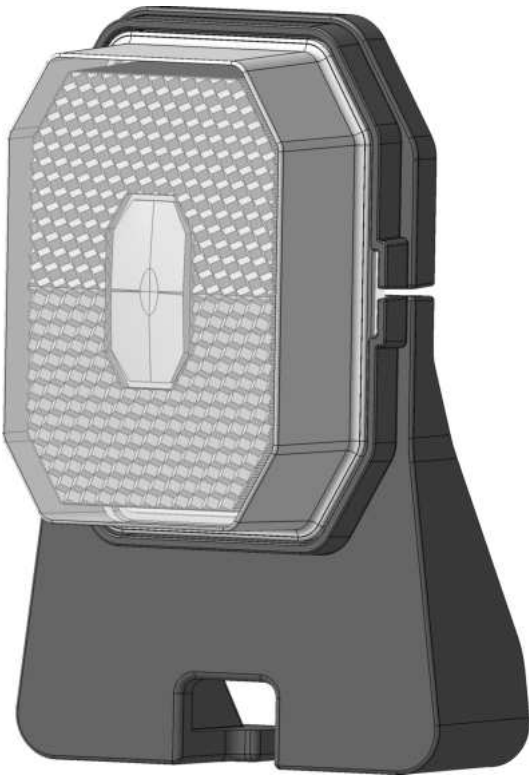
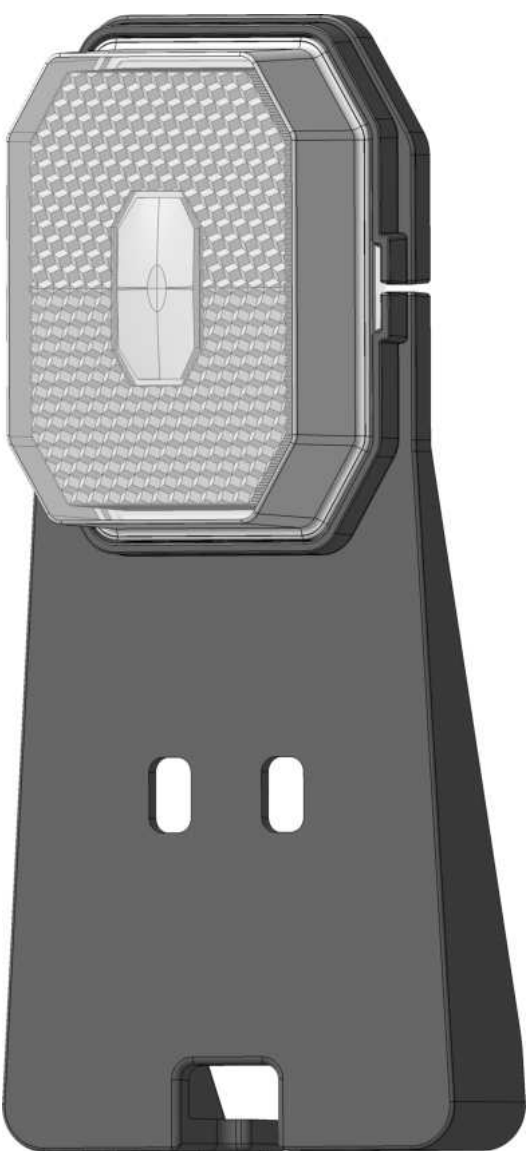
Drawn by: Karol Jonoszak	Date: 16-01-2024	Sheet: 1 of 12
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Type:
FT-001 B LED
front position LED lamp with reflex reflector cat IA - ext01

Light source:
LED CHIP SMD chip mounted
3 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	PC/ABS	white
fixing frame	PBT	black
bracket	PP+TPE SEBS	black
PCB	FR4	
sealing	potting compound - epoxy resin	
cable	2 x0.75 mm ²	



front position lamp A with
retro reflex reflector cat IA



Manufacturer:
FRISTOM Spółka z ograniczoną odpowiedzialnością Sp.K.
86-014 Sicienka / Polska
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Drawn by: Karol Jonoszak
Date: 16-01-2024
Sheet: 2 of 12

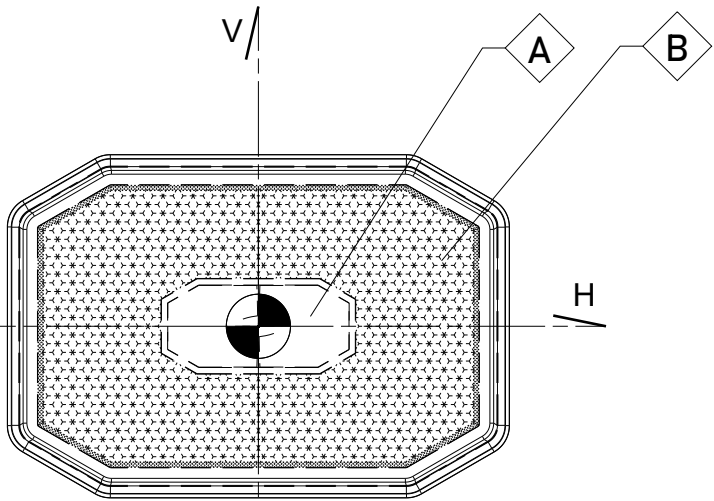
Type: FT-001 B LED
front position LED lamp with reflex reflector cat IA - ext01

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

Description:
light function
This drawing is a part of the application for approval

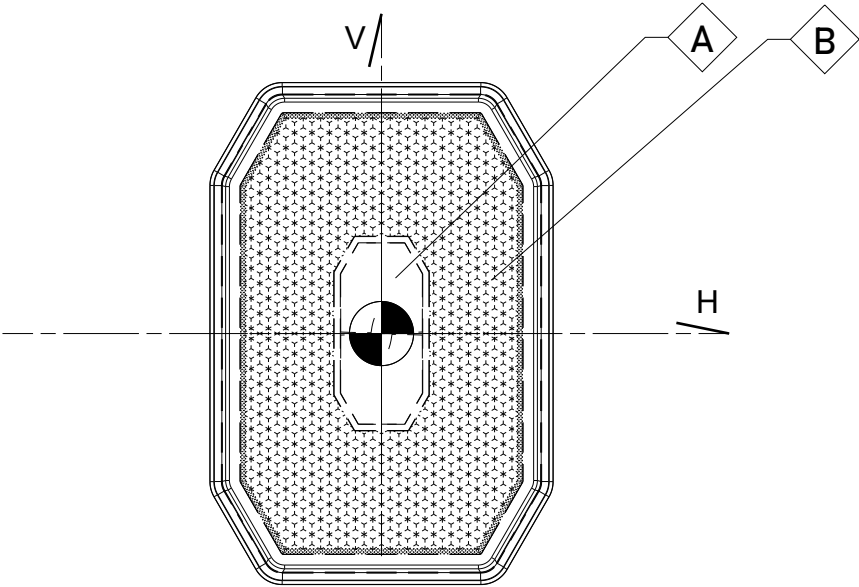
Material used in manufacturing :		
part	material	color
lampshade	PMMA	clear transparent
housing	PC/ABS	white
fixing frame	PBT	black
bracket	PP+TPE SEBS	black
PCB	FR4	
sealing	potting compound - epoxy resin	
cable	2 x0.75 mm ²	

horizontal assembly



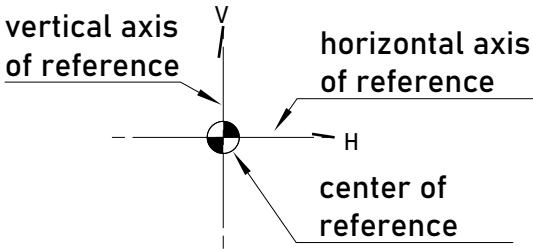
Front view
Scale: 1:1

vertical assembly



Front view
Scale: 1:1

A	light emitting area front position light [A]
B	reflecting area [IA]



Manufacturer:
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Drawn by: Karol Jonoszak
Date: 16-01-2024
Sheet: 3 of 12

Type: FT-001 B LED
front position LED lamp with reflex reflector cat IA - ext01

Light source:

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

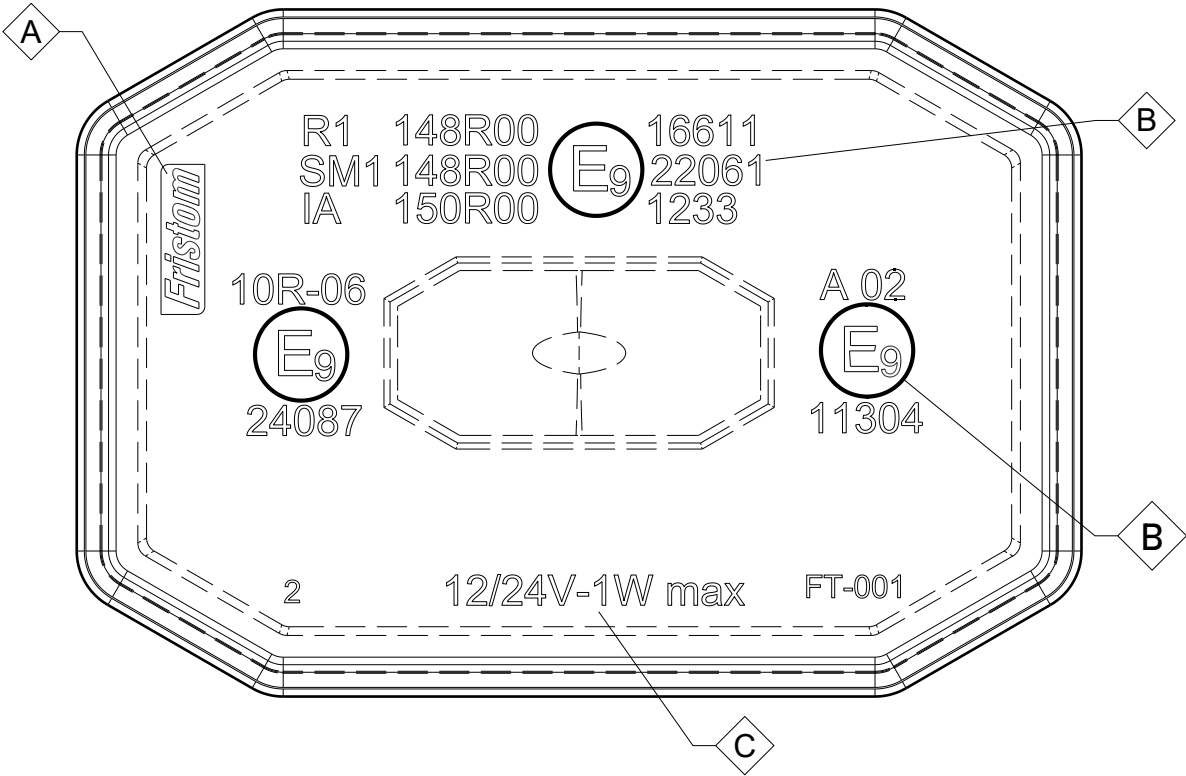
Description:

approval , trademark and electrical parameters markings

This drawing is a part of the application for approval

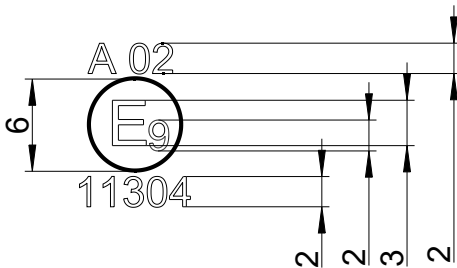
Material used in manufacturing :

part	material	color
lampshade	PMMA	clear transparent
housing	PC/ABS	white
fixing frame	PBT	black
bracket	PP+TPE SEBS	black
PCB	FR4	
sealing	potting compound - epoxy resin	
cable	2 x0.75 mm ²	



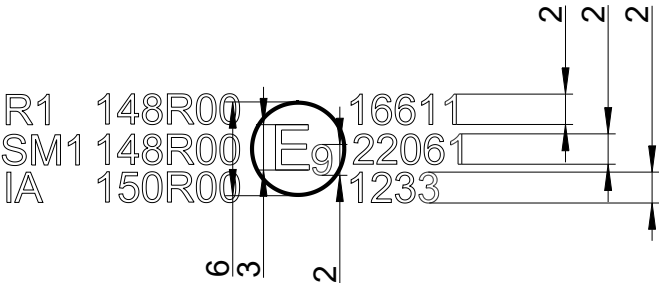
A	trademark location
B	approval number
C	electric parameters

approval dimensions



electrical data

12/24 V DC input
A;SM1-12V/24V=0,25W/0,5W
R1-12V/24V=0,5W/1W



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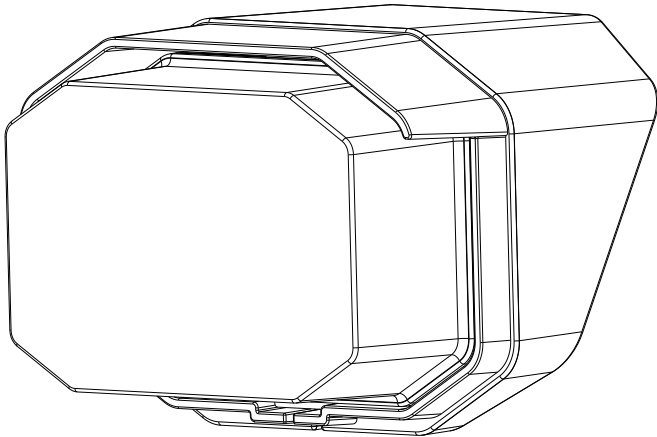
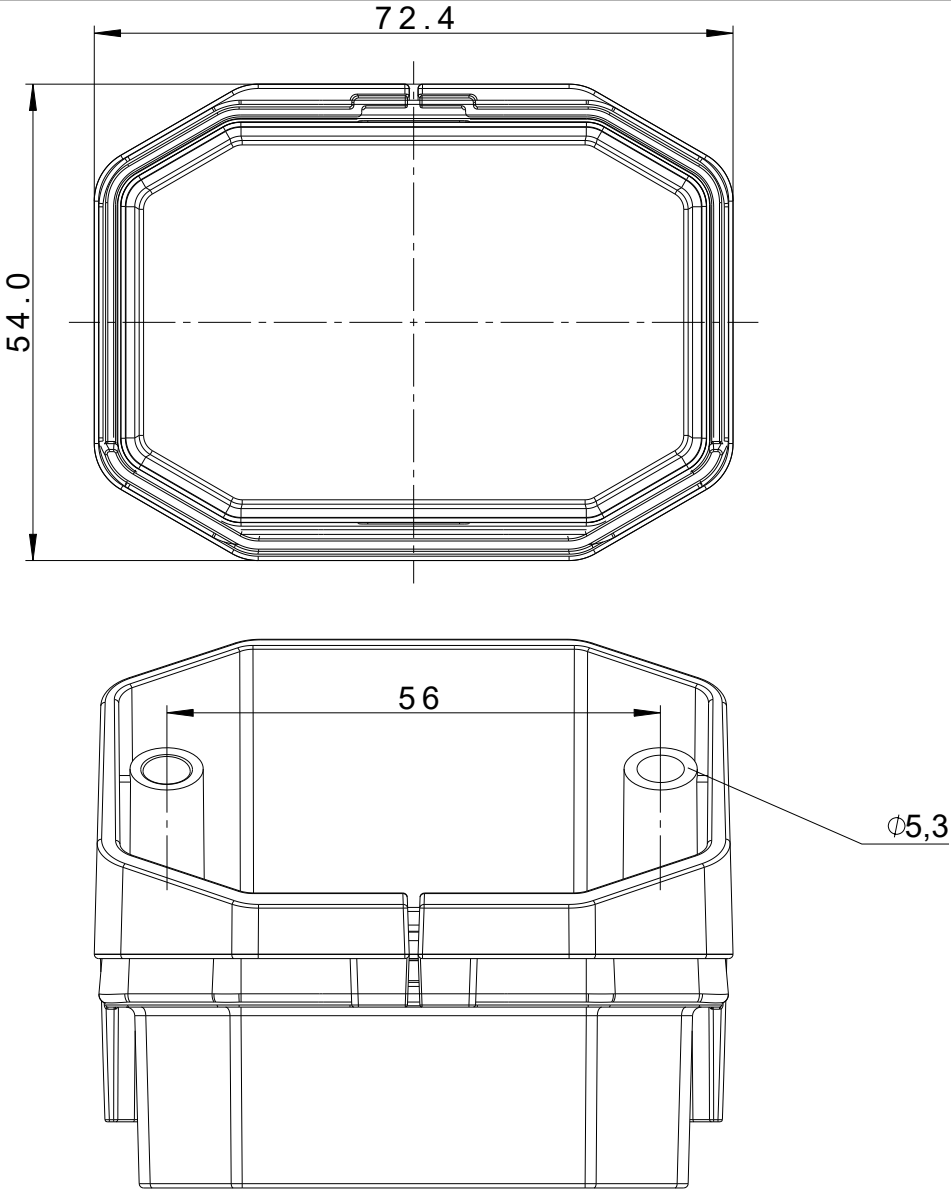
Drawn by: Karol Jonoszak
Date: 16-01-2024
Sheet: 4 of 12

Type:
FT-001 B LED
front position LED lamp with reflex reflector cat IA - ext01

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

Description:
general lamp dimension , assembly variant
This drawing is a part of the application for approval

Material used in manufacturing :		
part	material	color
lampshade	PMMA	clear transparent
housing	PC/ABS	white
fixing frame	PBT	black
bracket	PP+TPE SEBS	black
PCB	FR4	
sealing	potting compound - epoxy resin	
cable	2 x0.75 mm ²	



Manufacturer:
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Drawn by: Karol Jonoszak
Date: 16-01-2024
Sheet: 5 of 12

Type: FT-001 B LED
front position LED lamp with reflex reflector cat IA - ext01

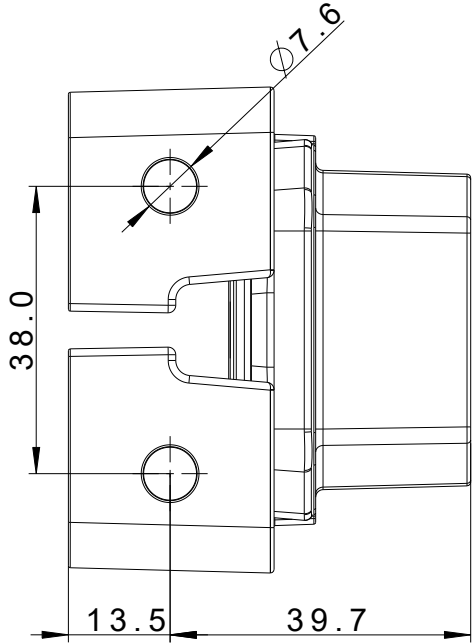
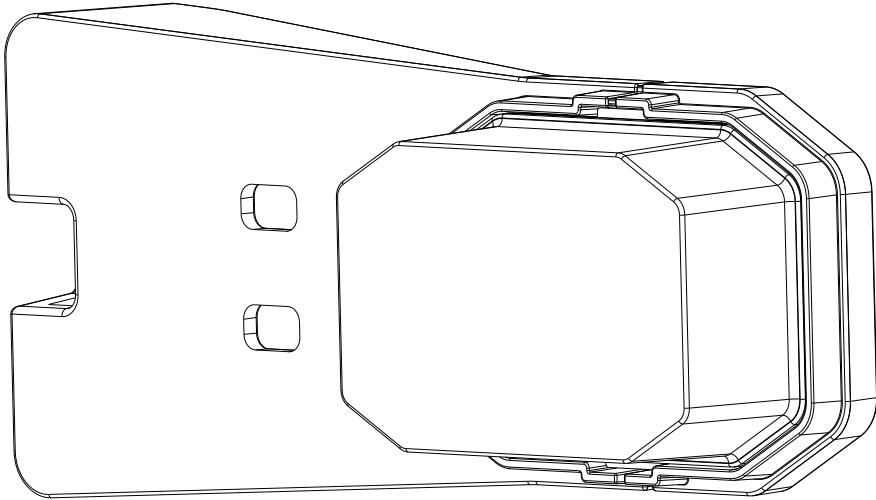
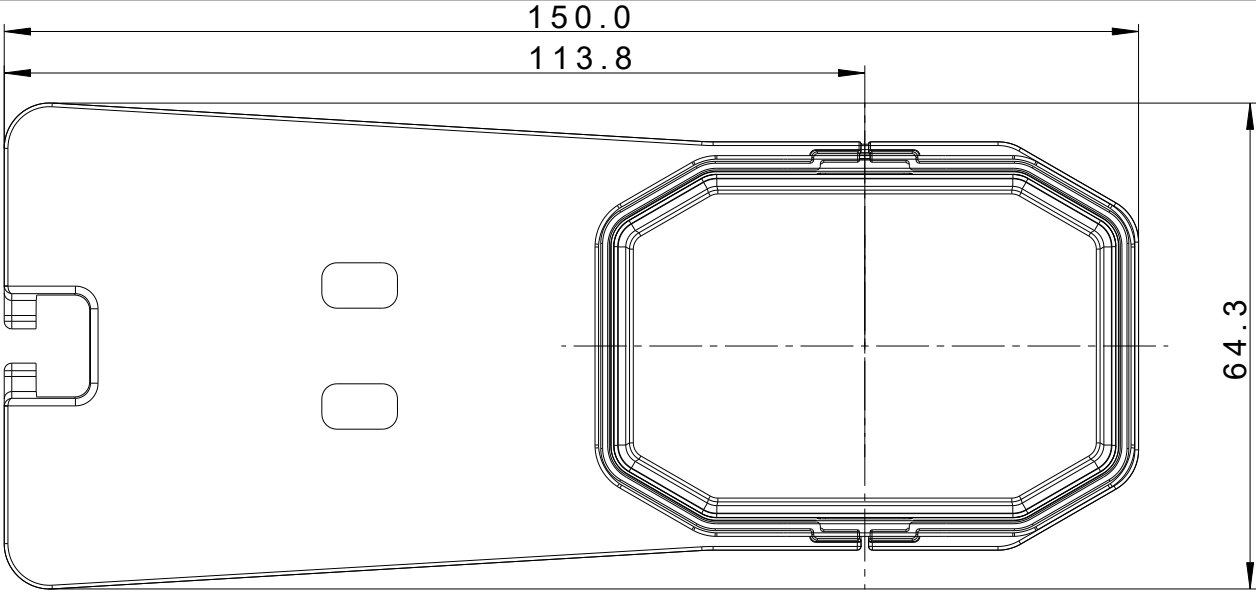
Light source: LED CHIP SMD chip mounted
3 LED's white light color

Description: general lamp dimension , assembly variant

This drawing is a part of the application for approval

Material used in manufacturing :

part	material	color
lampshade	PMMA	clear transparent
housing	PC/ABS	white
fixing frame	PBT	black
bracket	PP+TPE SEBS	black
PCB	FR4	
sealing	potting compound - epoxy resin	
cable	2 x0.75 mm ²	



Manufacturer:
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Drawn by: Karol Jonoszak
Date: 16-01-2024
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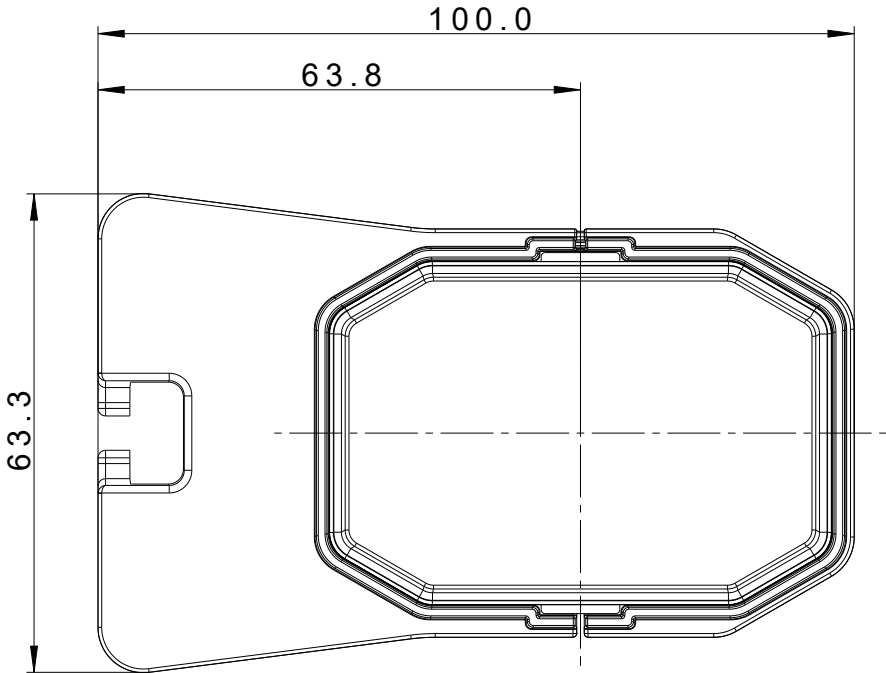
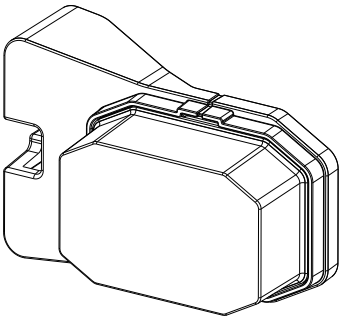
Type:
FT-001 B LED
front position LED lamp with reflex reflector cat IA - ext01

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

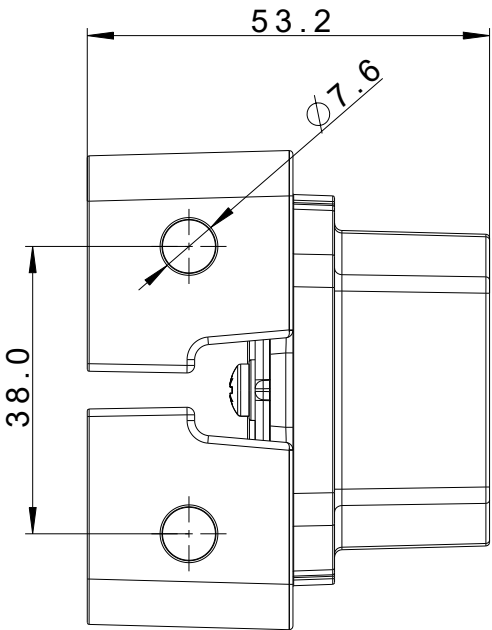
Description:
general lamp dimension , assembly variant
This drawing is a part of the application for approval

Material used in manufacturing :		
part	material	color
lampshade	PMMA	clear transparent
housing	PC/ABS	white
fixing frame	PBT	black
bracket	PP+TPE SEBS	black
PCB	FR4	
sealing	potting compound - epoxy resin	
cable	2 x0.75 mm ²	

Isometric view
Scale: 1:2



Front view
Scale: 1:1



Left view
Scale: 1:1

Manufacturer:
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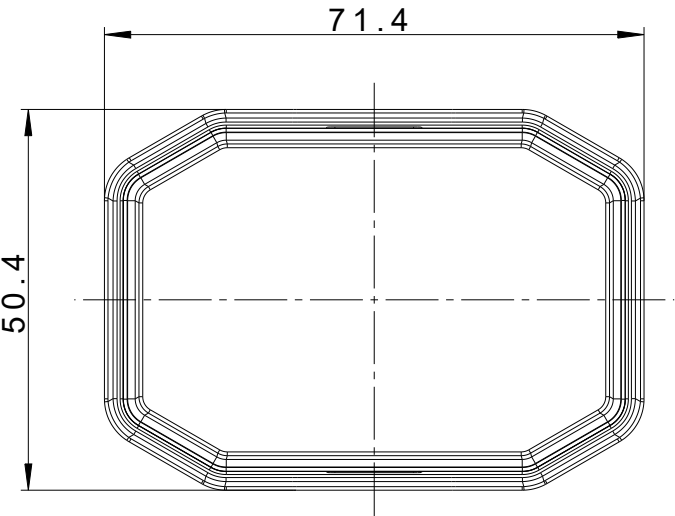
Drawn by: Karol Jonoszak
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Type:
FT-001 B LED
front position LED lamp with reflex reflector cat IA - ext01

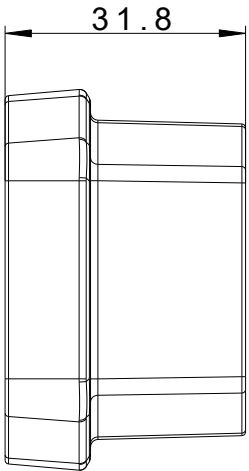
Light source:
LED CHIP SMD chip mounted
3 LED's white light color

Description:
general lamp dimension , assembly variant
This drawing is a part of the application for approval

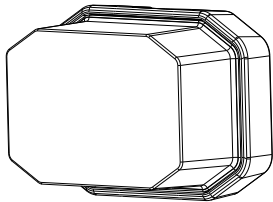
Material used in manufacturing :		
part	material	color
lampshade	PMMA	clear transparent
housing	PC/ABS	white
fixing frame	PBT	black
bracket	PP+TPE SEBS	black
PCB	FR4	
sealing	potting compound - epoxy resin	
cable	2 x0.75 mm ²	



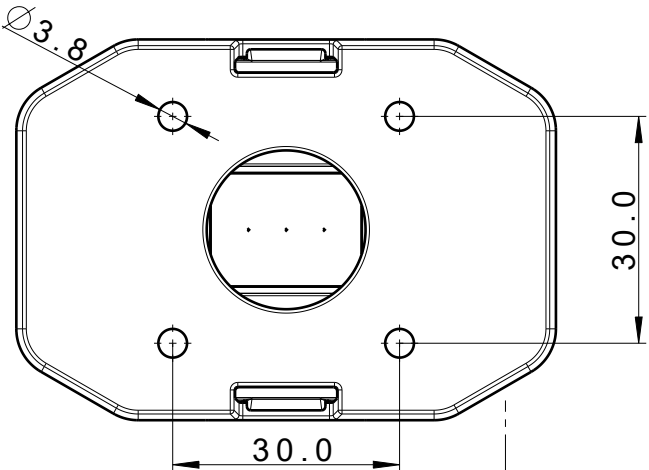
Front view
Scale: 1:1



Left view
Scale: 1:1



Isometric view
Scale: 1:2



Rear view
Scale: 1:1

Manufacturer:
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Drawn by: Karol Jonoszak
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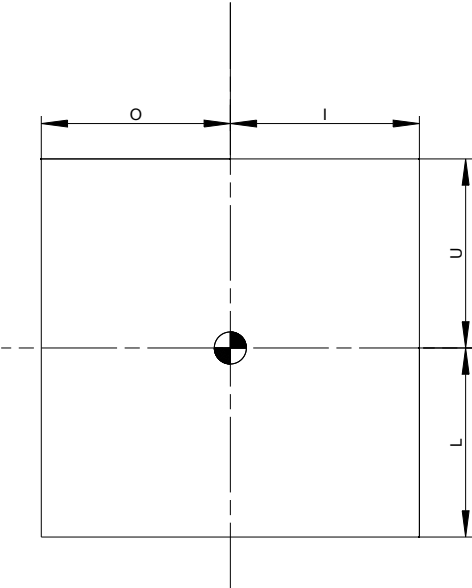
Type:
FT-001 B LED
front position LED lamp with reflex reflector cat IA - ext01

Light source:
LED CHIP SMD chip mounted
3 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	PC/ABS	white
fixing frame	PBT	black
bracket	PP+TPE SEBS	black
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	13	13	6,5	6,5

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.

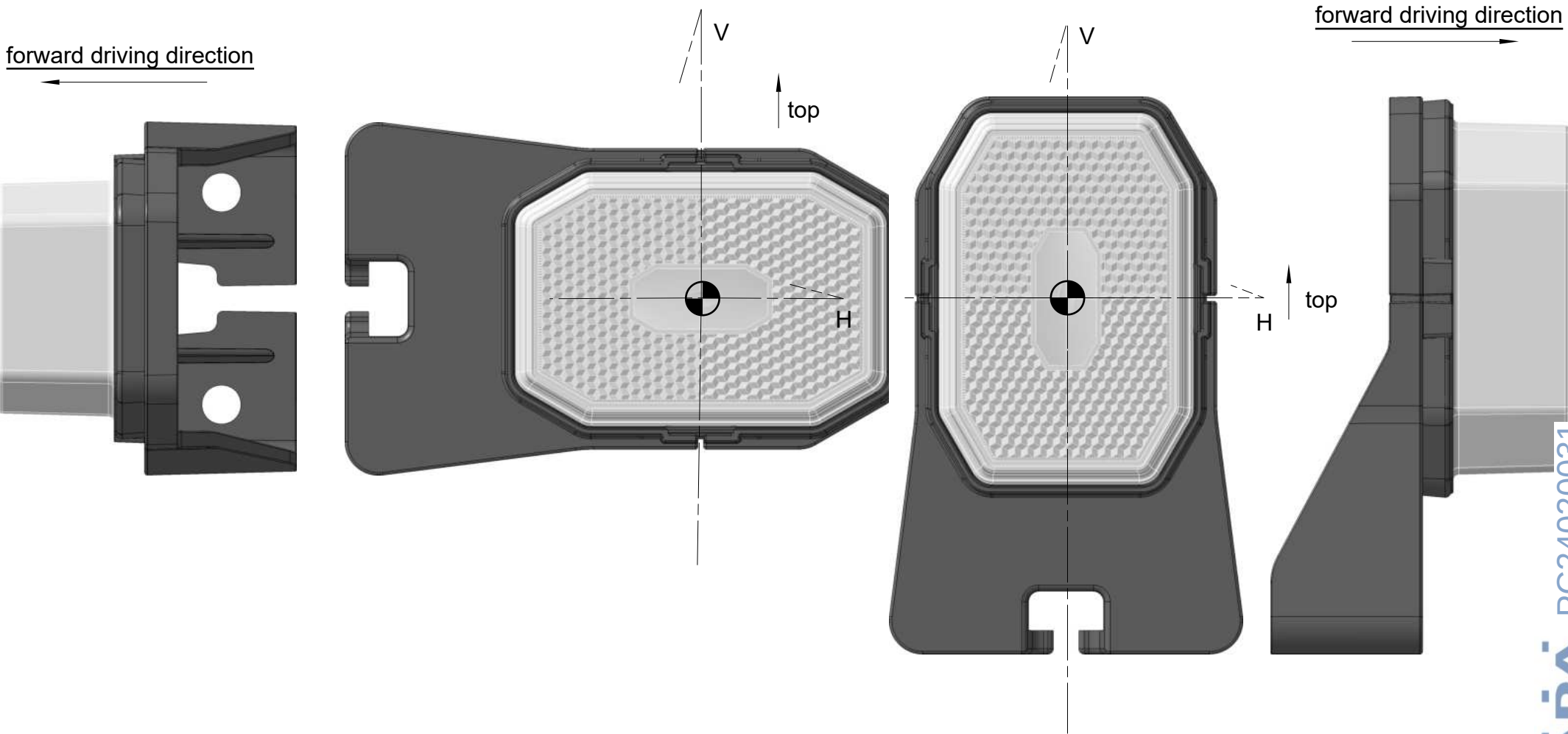
Manufacturer:
FRISTOM Spółka z ograniczoną odpowiedzialnością Sp.K.
86-014 Sicienko / Polska
ul. Przemysłowa 5
NIP: 5542926937, KRS: 0000529238
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Drawn by: Karol Jonoszak	Date: 16-01-2024	Sheet: 9 of 12
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Type: FT-001 B LED front position LED lamp with reflex reflector cat IA - ext01	
Light source: LED CHIP SMD chip mounted 3 LED's white light color	Description: lamp position / assembly on vehicle This drawing is a part of the application for approval

Material used in manufacturing :		
part	material	color
lampshade	PMMA	clear transparent
housing	PC/ABS	white
fixing frame	PBT	black
bracket	PP+TPE SEBS	black
PCB	FR4	
sealing	potting compound - epoxy resin	
cable	2 x0.75 mm²	



Manufacturer:
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Drawn by: Karol Jonoszak
Date: 16-01-2024
Sheet: 10 of 12

Type:

FT-001 B LED

front position LED lamp with reflex reflector cat IA - ext01

Light source:

LED CHIP SMD chip mounted
3 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	PC/ABS	white
fixing frame	PBT	black
bracket	PP+TPE SEBS	black
PCB	FR4	
sealing	potting compound - epoxy resin	
cable	2 x0.75 mm ²	

Index	Description
FT-001 B LED	White LED clearance lamp with a reflector and a cable.
FT-001 B LED Mxx	White LED clearance lamp with a reflector and a cable Mxx long.
FT-001 B LED QS075	White LED clearance lamp with a reflector, a cable and a QS075 connector.
FT-001 B LED QS075 Mxx	White LED clearance lamp with a reflector, a cable Mxx long and a QS075 connector.
FT-001 B LED QS150	White LED clearance lamp with a reflector, a cable and a QS150 connector.
FT-001 B LED QS150 Mxx	White LED clearance lamp with a reflector, a cable Mxx long and a QS150 connector.
FT-001 BI LED	White LED clearance lamp with a reflector, an angle holder and a cable.
FT-001 BI LED Mxx	White LED clearance lamp with a reflector, an angle holder and a cable Mxx long.
FT-001 BI LED QS075	White LED clearance lamp with a reflector, an angle holder, a cable and a QS075 connector
FT-001 BI LED QS075 Mxx	White LED clearance lamp with a reflector, an angle holder, a cable Mxx long and a QS075 connector
FT-001 BI LED QS150	White LED clearance lamp with a reflector, an angle holder, a cable and a QS150 connector
FT-001 BI LED QS150 Mxx	White LED clearance lamp with a reflector, an angle holder, a cable Mxx long and a QS150 connector
FT-001 BII LED	White LED clearance lamp with a reflector, a flat holder and a cable.
FT-001 BII LED Mxx	White LED clearance lamp with a reflector, a flat holder and a cable Mxx long.
FT-001 BII LED QS075	White LED clearance lamp with a reflector, a flat holder, a cable and a QS075 connector.
FT-001 BII LED QS075 Mxx	White LED clearance lamp with a reflector, a flat holder, a cable Mxx and a QS075 connector.
FT-001 BII LED QS150	White LED clearance lamp with a reflector, a flat holder, a cable and a QS150 connector.
FT-001 BII LED QS150 Mxx	White LED clearance lamp with a reflector, a flat holder, a cable Mxx and a QS150 connector.
FT-001 BIII LED	White LED clearance lamp with a reflector, short holder and a cable.
FT-001 BIII LED Mxx	White LED clearance lamp with a reflector, short holder and a cable Mxx long.
FT-001 BIII LED QS075	White LED clearance lamp with a reflector, a short holder, a cable and a QS075 connector.
FT-001 BIII LED QS075 Mxx	White LED clearance lamp with a reflector, a short holder, a cable Mxx long and a QS075 connector.
FT-001 BIII LED QS150	White LED clearance lamp with a reflector, a short holder, a cable and a QS150 connector.
FT-001 BIII LED QS150 Mxx	White LED clearance lamp with a reflector, a short holder, a cable Mxx long and a QS150 connector.
FT-001 BIV LED	White LED clearance lamp with a reflector, long holder and a cable.
FT-001 BIV LED Mxx	White LED clearance lamp with a reflector, long holder and a cable Mxx long.
FT-001 BIV LED QS075	White LED clearance lamp with a reflector, a long holder, a cable and a QS075 connector.
FT-001 BIV LED QS075 Mxx	White LED clearance lamp with a reflector, a long holder, a cable Mxx long and a QS075 connector.
FT-001 BIV LED QS150	White LED clearance lamp with a reflector, a long holder, a cable and a QS150 connector.
FT-001 BIV LED QS150 Mxx	White LED clearance lamp with a reflector, a long holder, a cable Mxx long and a QS150 connector.
FT-001 BV LED	White LED clearance lamp with a reflector, a fender holder and a cable.
FT-001 BV LED Mxx	White LED clearance lamp with a reflector, a fender holder and a cable Mxx long.
FT-001 BV LED QS075	White LED clearance lamp with a reflector, a fender holder, a cable and a QS075 connector.
FT-001 BV LED QS075 Mxx	White LED clearance lamp with a reflector, a fender holder, a cable Mxx and a QS075 connector.
FT-001 BV LED QS150	White LED clearance lamp with a reflector, a fender holder, a cable and a QS150 connector.
FT-001 BV LED QS150 Mxx	White LED clearance lamp with a reflector, a fender holder, a cable Mxx and a QS150 connector.

* where x is a digit between 0-9

iBIDA PC24020031

Manufacturer:
FRISTOM Spółka z ograniczoną odpowiedzialnością Sp.K.
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Drawn by: Karol Jonoszak	Date: 16-01-2024	Sheet: 11 of 11
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Type:
FT-001 B LED
front position LED lamp with reflex reflector cat IA - ext01

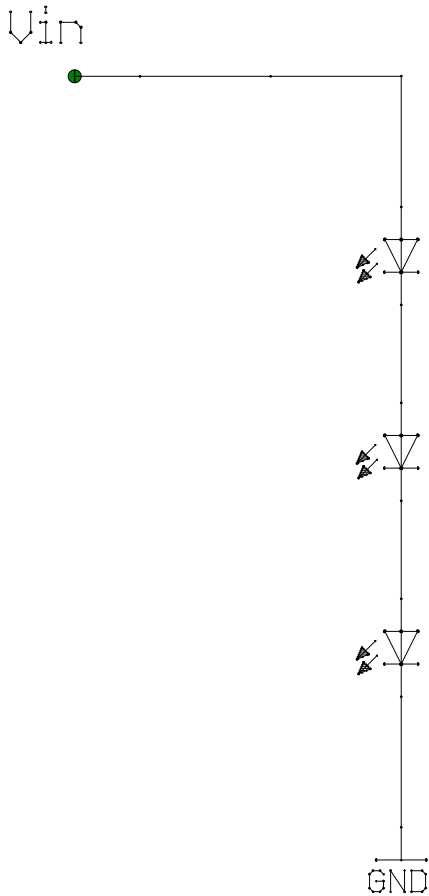
Light source:

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

Description:

led connection
This drawing is a part of the application for approval

Material used in manufacturing :		
part	material	color
lampshade	PMMA	clear transparent
housing	PC/ABS	white
fixing frame	PBT	black
bracket	PP+TPE SEBS	black
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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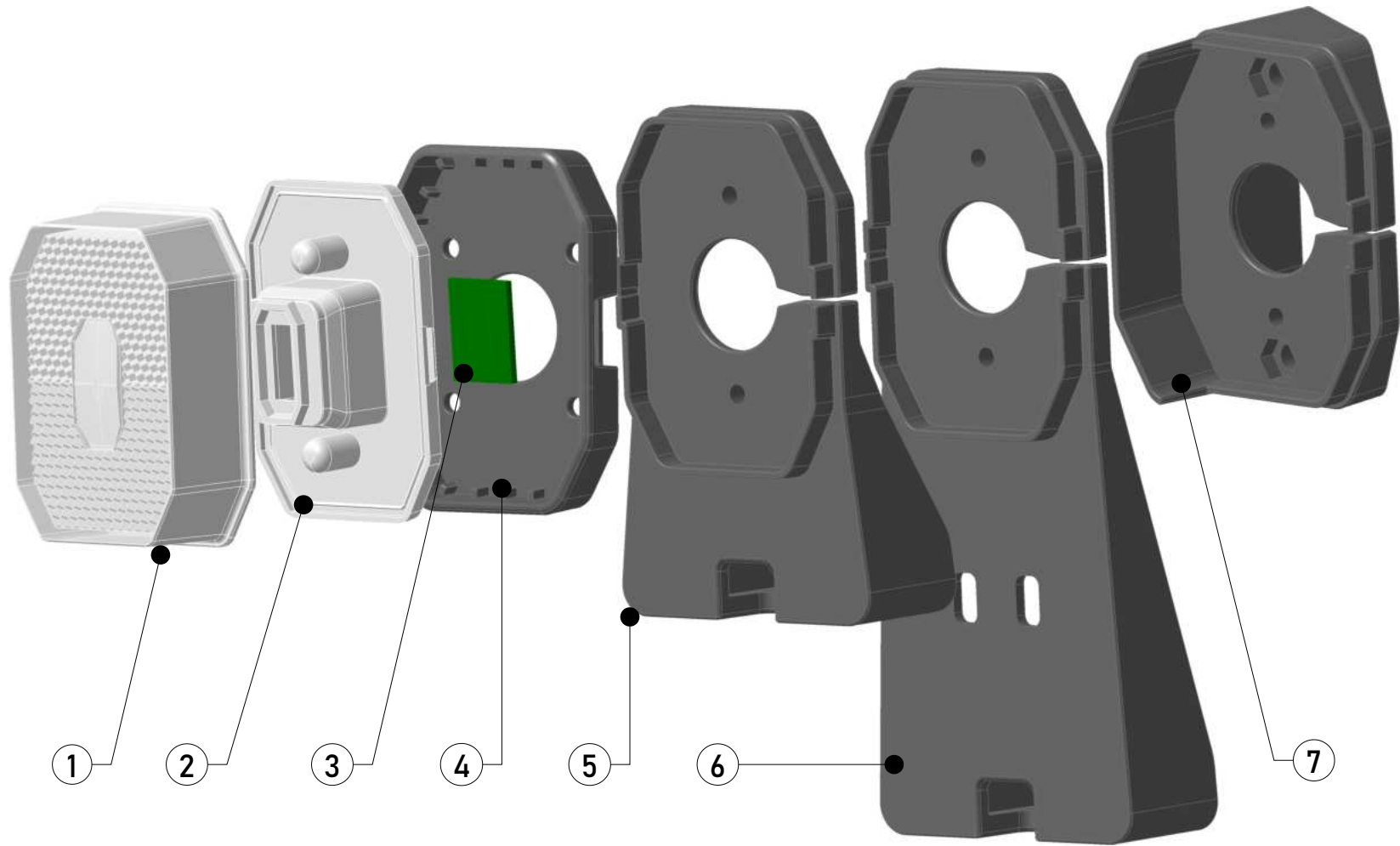
Drawn by: Karol Jonoszak
Date: 13-02-2024
Sheet: 11 of 12

Type:
FT-001 B LED
front position LED lamp with reflex reflector cat IA - ext01

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

Description:
exploded lamp view
This drawing is a part of the application for approval

Material used in manufacturing :		
part	material	color
lampshade	PMMA	clear transparent
housing	PC/ABS	white
fixing frame	PBT	black
bracket	PP+TPE SEBS	black
PCB	FR4	
sealing	potting compound - epoxy resin	
cable	2 x0.75 mm ²	



	part
1	Lampshade
2	Housing
3	PCB
4	fixing frame
5	Short bracket
6	Long bracket
7	Fender bracket

Manufacturer:
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Drawn by: Karol Jonoszak	Date: 16-01-2024	Sheet: 1 of 12
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Type:
FT-001 C LED

rear position LED lamp with reflex reflector cat IA

Light source:

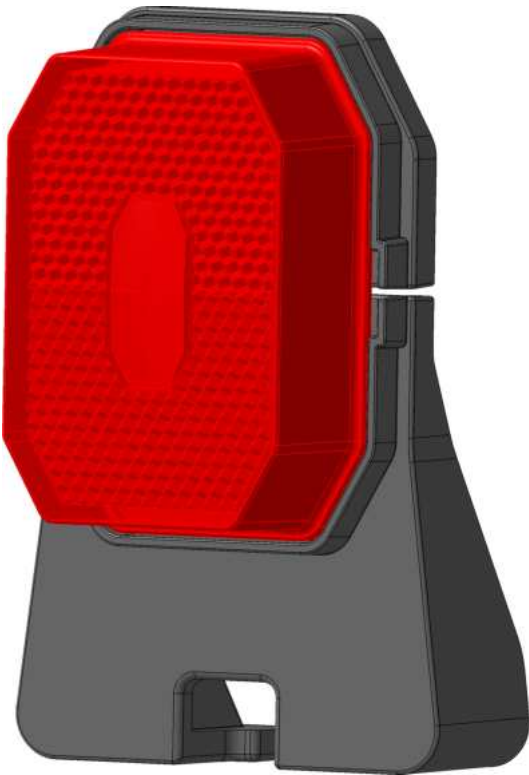
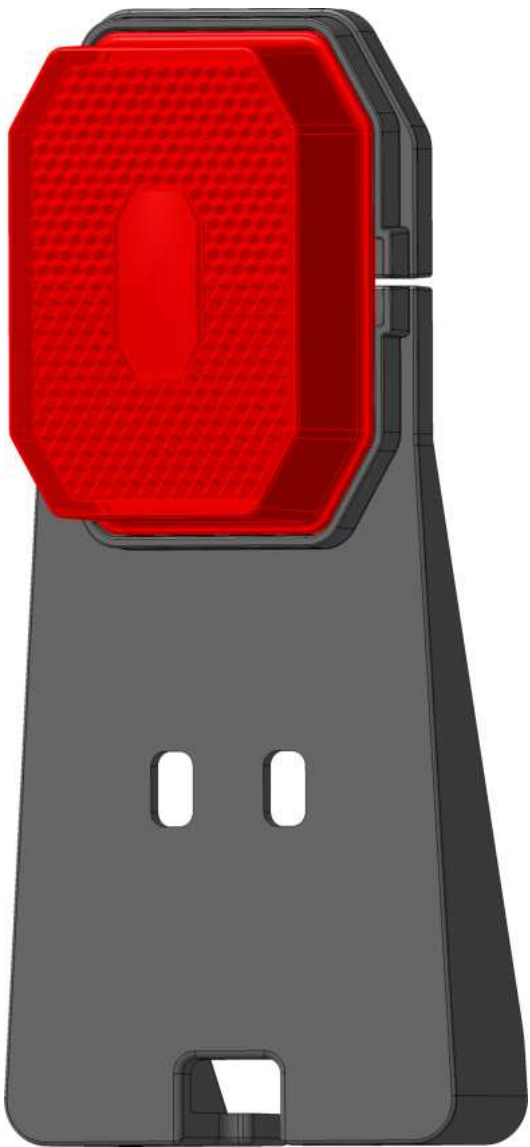
LED CHIP SMD chip mounted
3 LED's red light color

Description:

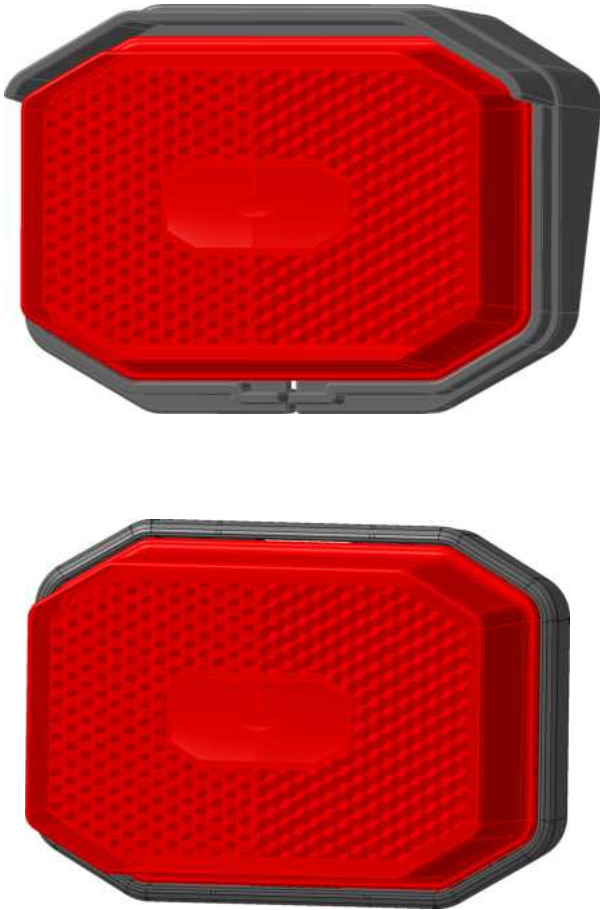
isometric lamp view

This drawing is a part of the application for approval

Material used in manufacturing :		
part	material	color
lampshade	PMMA	red transparent
housing	PC/ABS	white
fixing frame	PBT	black
bracket	PP+TPE SEBS	black
PCB	FR4	
sealing	potting compound - epoxy resin	
cable	2 x0.75 mm ²	



rear position lamp R1 with
retro reflex reflector cat IA



Manufacturer:
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Drawn by: Karol Jonoszak
Date: 16-01-2024
Sheet: 2 of 12

Type: FT-001 C LED
rear position LED lamp with reflex reflector cat IA

Light source:

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

Description:

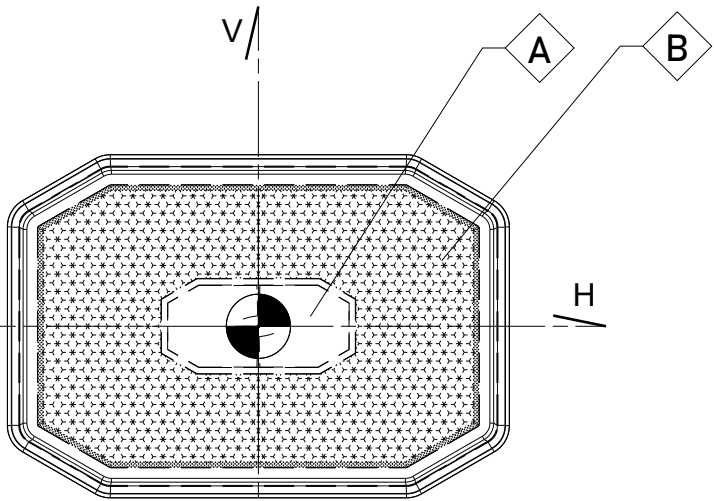
light function

This drawing is a part of the application for approval

Material used in manufacturing :

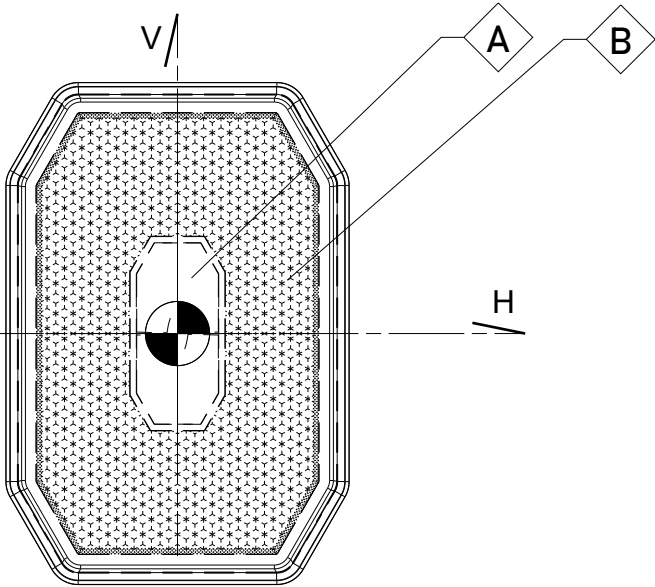
part	material	color
lampshade	PMMA	red transparent
housing	PC/ABS	white
fixing frame	PBT	black
bracket	PP+TPE SEBS	black
PCB	FR4	
sealing	potting compound - epoxy resin	
cable	2 x0.75 mm ²	

horizontal assembly



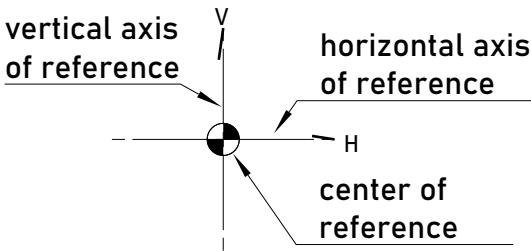
Front view
Scale: 1:1

vertical assembly



Front view
Scale: 1:1

A	light emitting area rear position lamp [R1]
B	reflecting area [IA]



Manufacturer:
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Drawn by: Karol Jonoszak
Date: 16-01-2024
Sheet: 3 of 12

Type: FT-001 C LED
rear position LED lamp with reflex reflector cat IA

Light source:

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

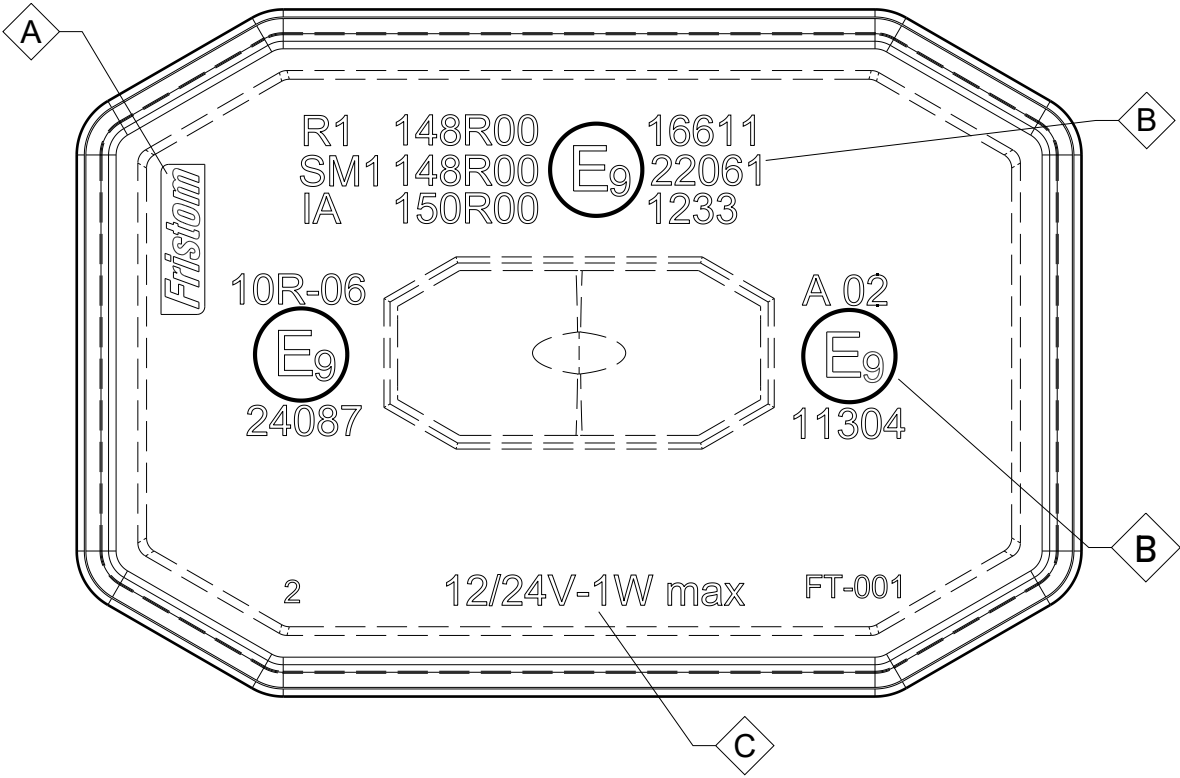
Description:

approval , trademark and electrical parameters markings

This drawing is a part of the application for approval

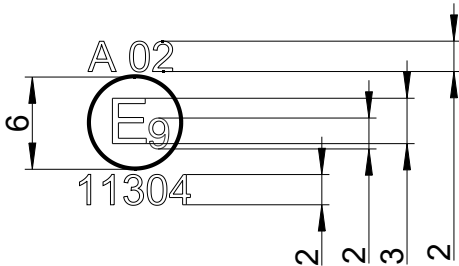
Material used in manufacturing :

part	material	color
lampshade	PMMA	red transparent
housing	PC/ABS	white
fixing frame	PBT	black
bracket	PP+TPE SEBS	black
PCB	FR4	
sealing	potting compound - epoxy resin	
cable	2 x0.75 mm ²	



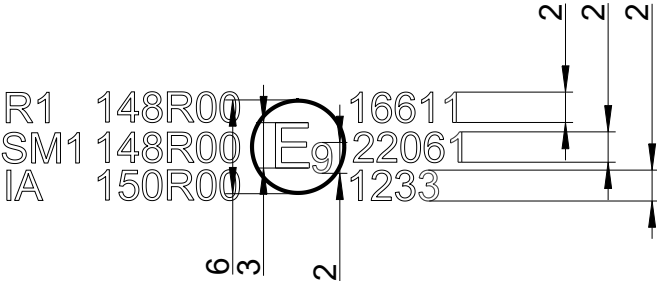
A	trademark location
B	approval number
C	electric parameters

approval dimensions



electrical data

12/24 V DC input
A;SM1-12V/24V=0,25W/0,5W
R1-12V/24V=0,5W/1W



Manufacturer:
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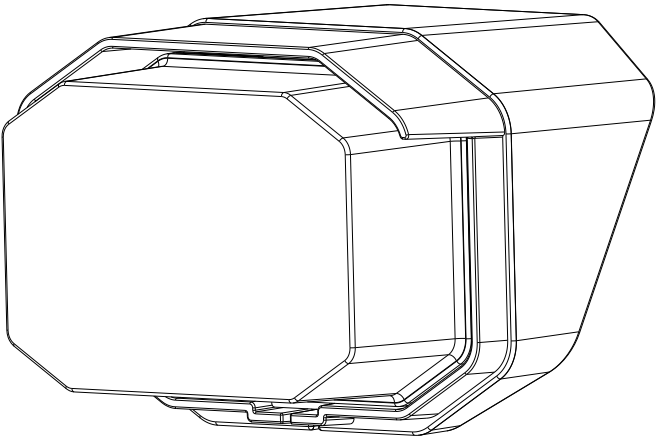
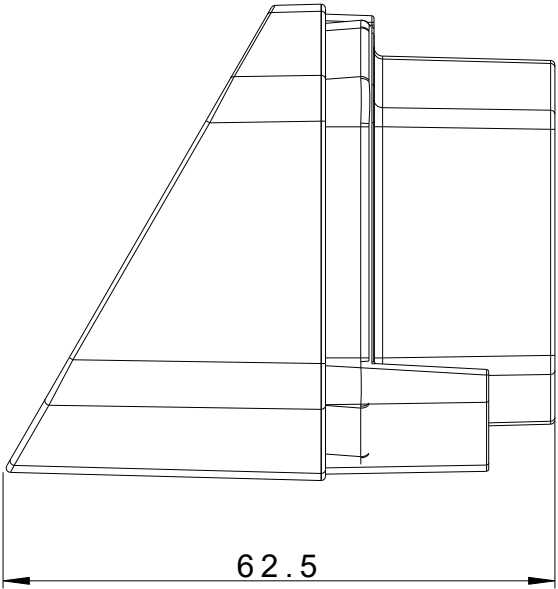
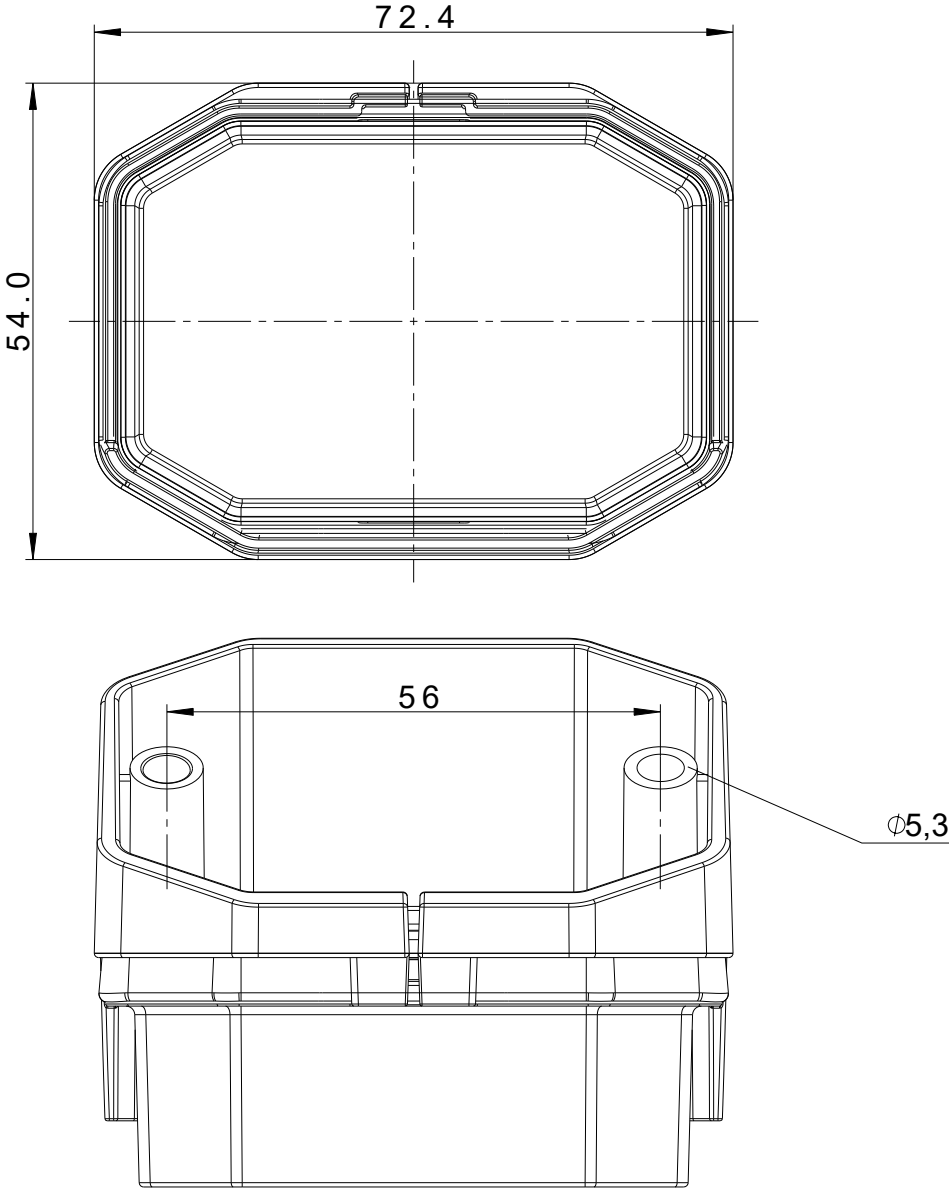
Drawn by: Karol Jonoszak
Date: 16-01-2024
Sheet: 4 of 12

Type:
FT-001 C LED
rear position LED lamp with reflex reflector cat IA

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

Description:
general lamp dimension , assembly variant
This drawing is a part of the application for approval

Material used in manufacturing :		
part	material	color
lampshade	PMMA	red transparent
housing	PC/ABS	white
fixing frame	PBT	black
bracket	PP+TPE SEBS	black
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: 16-01-2024
Sheet: 5 of 12

Type:
FT-001 C LED
rear position LED lamp with reflex reflector cat IA

Light source:

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

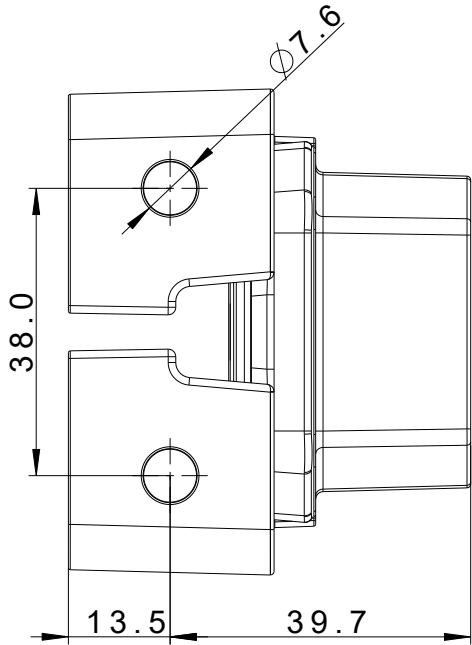
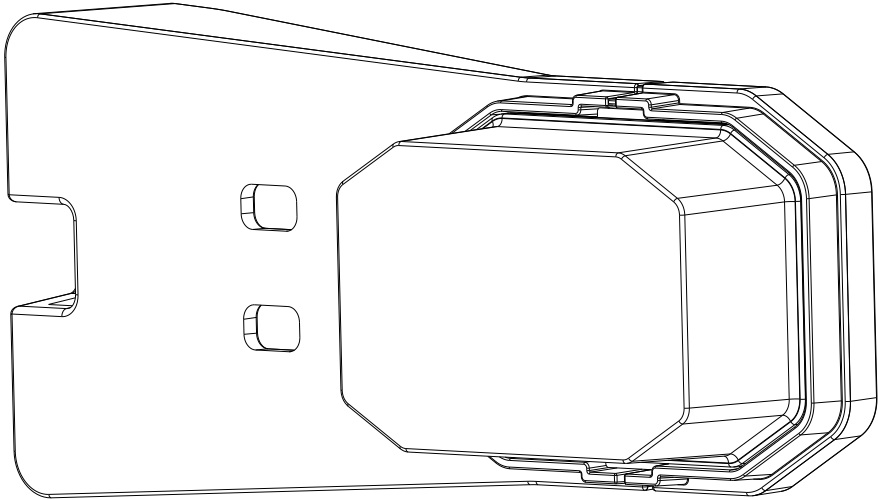
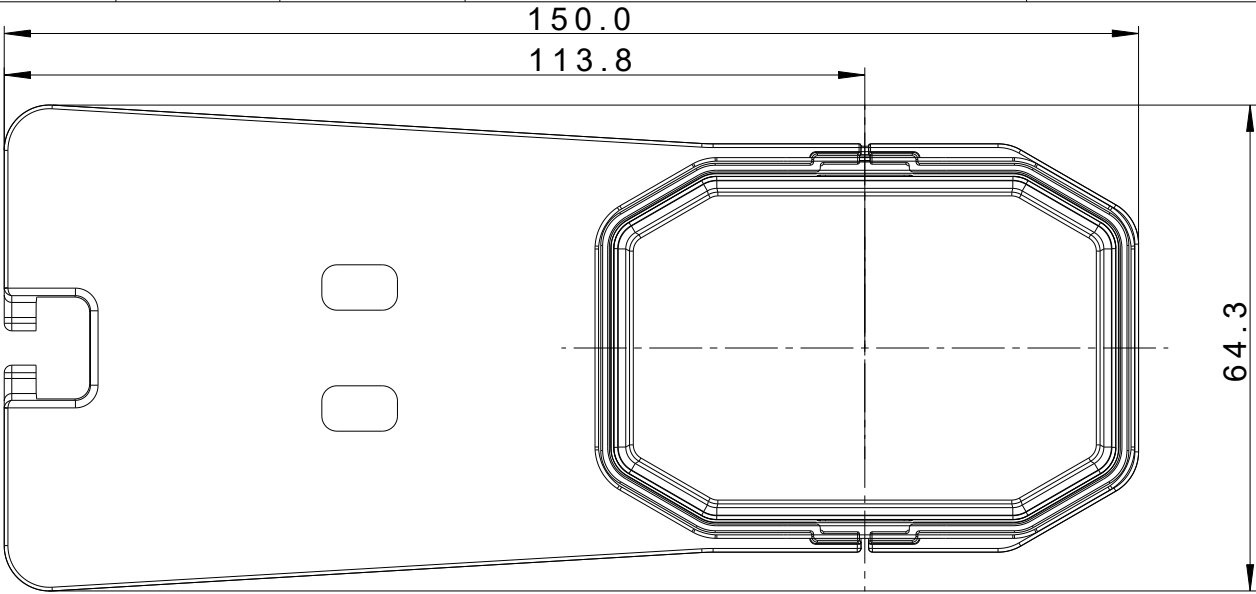
Description:

general lamp dimension , assembly variant

This drawing is a part of the application for approval

Material used in manufacturing :

part	material	color
lampshade	PMMA	red transparent
housing	PC/ABS	white
fixing frame	PBT	black
bracket	PP+TPE SEBS	black
PCB	FR4	
sealing	potting compound - epoxy resin	
cable	2 x0.75 mm ²	



Manufacturer:
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Drawn by: Karol Jonoszak
Date: 16-01-2024
Sheet: 6 of 12

Type:
FT-001 C LED
rear position LED lamp with reflex reflector cat IA

Light source:

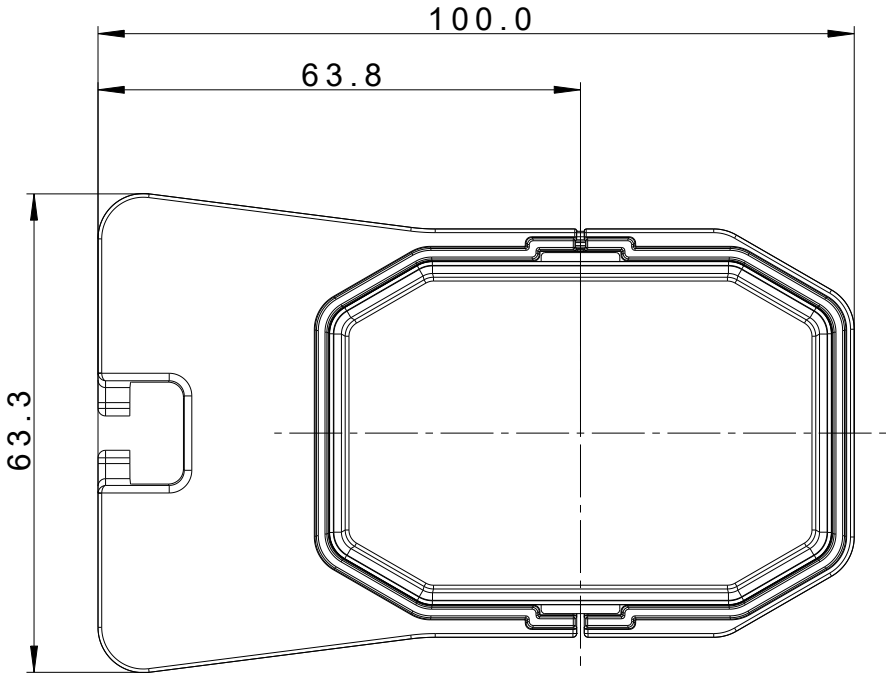
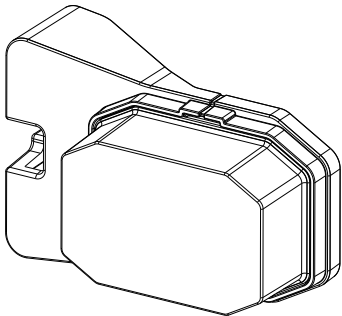
LED CHIP SMD chip mounted
3 LED's red light color

Description:

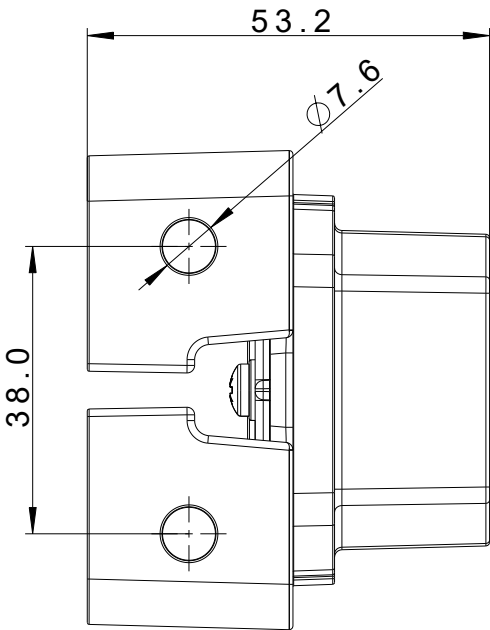
general lamp dimension , assembly variant
This drawing is a part of the application for approval

Material used in manufacturing :		
part	material	color
lampshade	PMMA	red transparent
housing	PC/ABS	white
fixing frame	PBT	black
bracket	PP+TPE SEBS	black
PCB	FR4	
sealing	potting compound - epoxy resin	
cable	2 x0.75 mm ²	

Isometric view[4]
Scale: 1:2



Front view[5]
Scale: 1:1



Left view[4]
Scale: 1:1

Manufacturer:
FRISTOM Spółka z ograniczoną odpowiedzialnością Sp.K.
86-014 Sicienko / Polska
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Drawn by: Karol Jonoszak
Date: 16-01-2024
Sheet: 7 of 12

Type:
FT-001 C LED
rear position LED lamp with reflex reflector cat IA

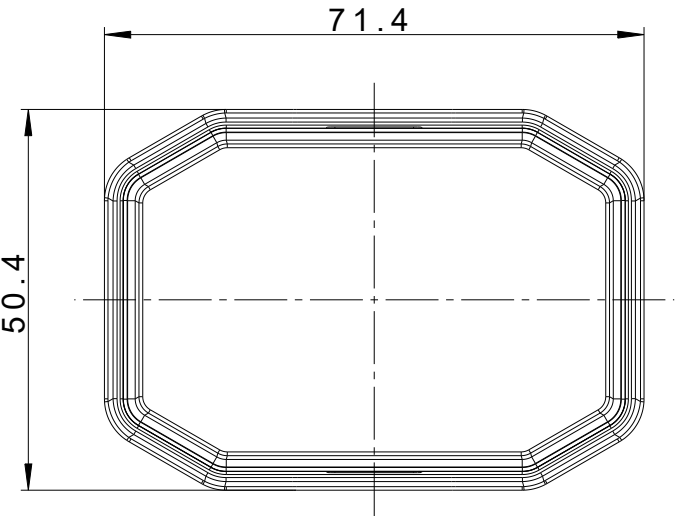
Light source:

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

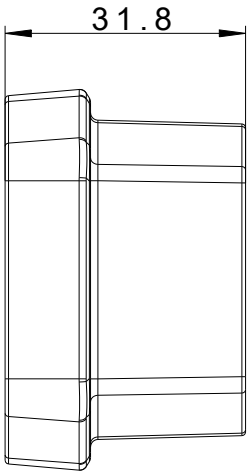
Description:

general lamp dimension , assembly variant
This drawing is a part of the application for approval

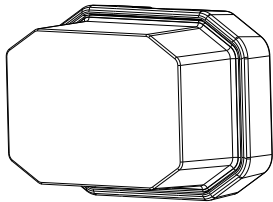
Material used in manufacturing :		
part	material	color
lampshade	PMMA	red transparent
housing	PC/ABS	white
fixing frame	PBT	black
bracket	PP+TPE SEBS	black
PCB	FR4	
sealing	potting compound - epoxy resin	
cable	2 x0.75 mm ²	



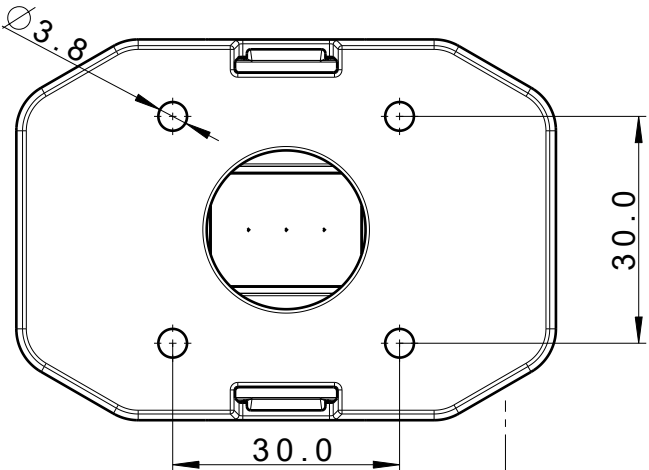
Front view
Scale: 1:1



Left view
Scale: 1:1



Isometric view
Scale: 1:2



Rear view
Scale: 1:1

Manufacturer:
FRISTOM Spółka z ograniczoną odpowiedzialnością Sp.K.
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Drawn by: Karol Jonoszak
Date: 16-01-2024
Sheet: 8 of 12

Type: FT-001 C LED
rear position LED lamp with reflex reflector cat IA

Light source:

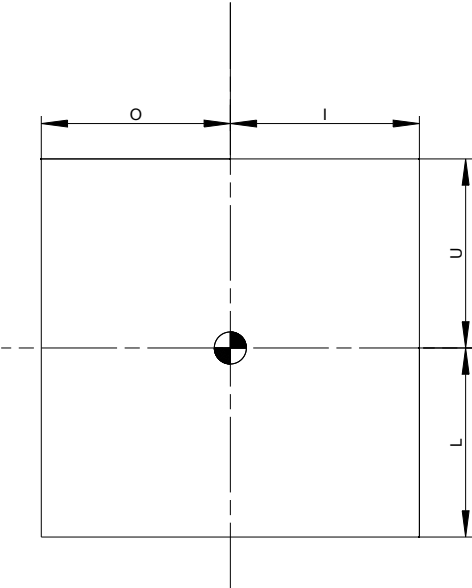
LED CHIP SMD chip mounted
3 LED's red light color

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	PC/ABS	white
fixing frame	PBT	black
bracket	PP+TPE SEBS	black
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]
R1	13	13	6,5	6,5

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

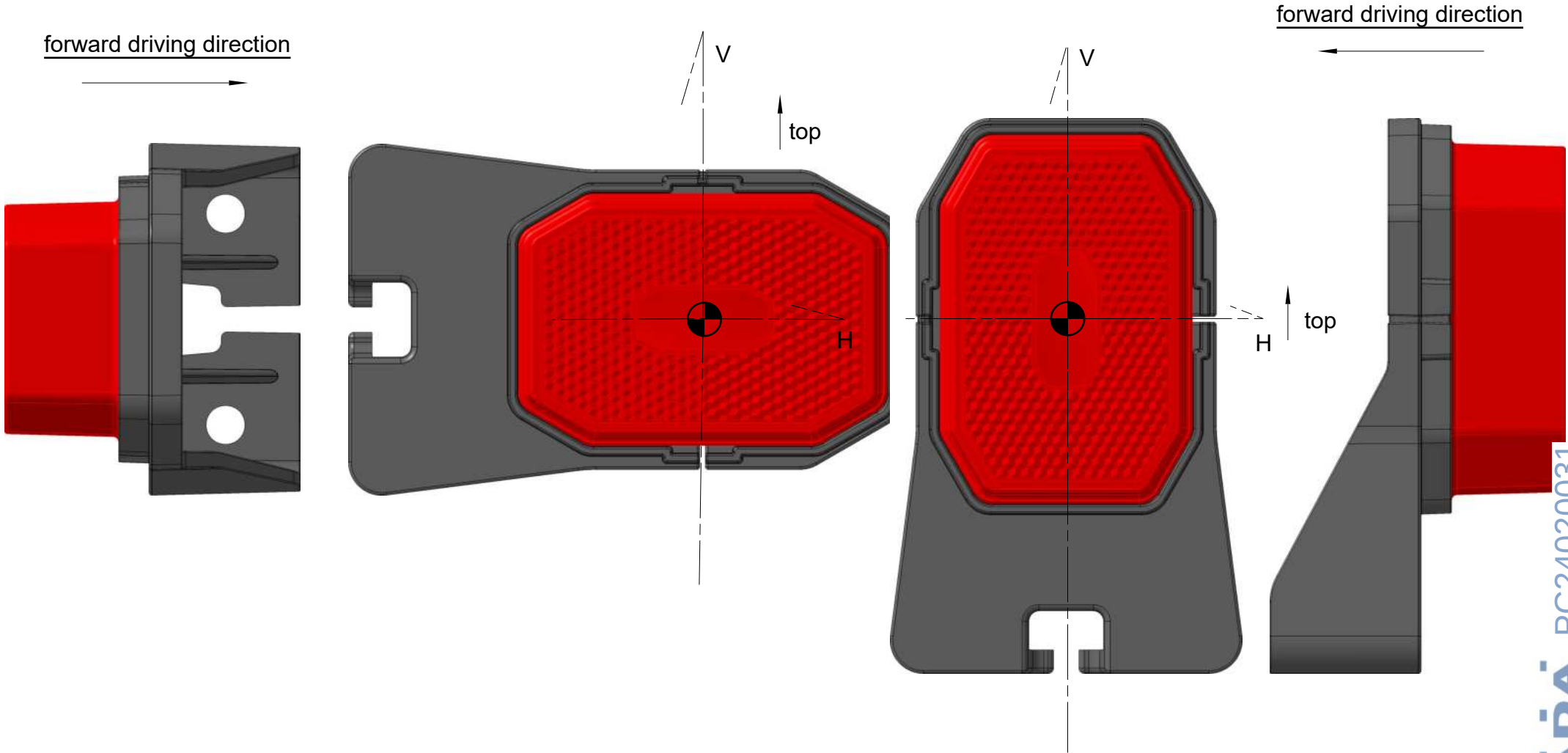
According to ECE regulation 48/06 " Instalation of light-signalling devices clause 2.10.3.2.

Manufacturer:
FRISTOM Spółka z ograniczoną odpowiedzialnością Sp.K.
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Drawn by: Karol Jonoszak	Date: 16-01-2024	Sheet: 9 of 12
------------------------------------	----------------------------	--------------------------

Type: FT-001 C LED	
rear position LED lamp with reflex reflector cat IA	
Light source: LED CHIP SMD chip mounted 3 LED's red light color	Description: lamp position / assembly on vehicle This drawing is a part of the application for approval



Manufacturer:
FRISTOM Spółka z ograniczoną odpowiedzialnością Sp.K.
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Drawn by: Karol Jonoszak
Date: 16-01-2024
Sheet: 10 of 12

Type:
FT-001 C LED

rear position LED lamp with reflex reflector cat IA

Light source: LED CHIP SMD chip mounted 3 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	PC/ABS	white
fixing frame	PBT	black
bracket	PP+TPE SEBS	black
PCB	FR4	
sealing	potting compound - epoxy resin	
cable	2 x0.75 mm ²	

Index	Description
FT-001 C LED	Red LED clearance lamp with a reflector and a cable.
FT-001 C LED Mxx	Red LED clearance lamp with a reflector and a cable Mxx long.
FT-001 C LED QS075	Red LED clearance lamp with a reflector, a cable and a QS075 connector.
FT-001 C LED QS075 Mxx	Red LED clearance lamp with a reflector, a cable Mxx long and a QS075 connector.
FT-001 C LED QS150	Red LED clearance lamp with a reflector, a cable and a QS150 connector.
FT-001 C LED QS150 Mxx	Red LED clearance lamp with a reflector, a cable Mxx long and a QS150 connector.
FT-001 CI LED	Red LED clearance lamp with a reflector, an angle holder and a cable.
FT-001 CI LED Mxx	Red LED clearance lamp with a reflector, an angle holder and a cable Mxx long.
FT-001 CI LED QS075	Red LED clearance lamp with a reflector, an angle holder, a cable and a QS075 connector
FT-001 CI LED QS075 Mxx	Red LED clearance lamp with a reflector, an angle holder, a cable Mxx long and a QS075 connector
FT-001 CI LED M10 QS150	Red LED clearance lamp with a reflector, an angle holder, a cable and a QS150 connector
FT-001 CI LED QS150 Mxx	Red LED clearance lamp with a reflector, an angle holder, a cable Mxx long and a QS150 connector
FT-001 CII LED	Red LED clearance lamp with a reflector, a flat holder and a cable.
FT-001 CII LED Mxx	Red LED clearance lamp with a reflector, a flat holder and a cable Mxx long.
FT-001 CII LED QS075	Red LED clearance lamp with a reflector, a flat holder, a cable and a QS075 connector.
FT-001 CII LED QS075 Mxx	Red LED clearance lamp with a reflector, a flat holder, a cable Mxx and a QS075 connector.
FT-001 CII LED QS150	Red LED clearance lamp with a reflector, a flat holder, a cable and a QS150 connector.
FT-001 CII LED QS150 Mxx	Red LED clearance lamp with a reflector, a flat holder, a cable Mxx and a QS150 connector.
FT-001 CIII LED	Red LED clearance lamp with a reflector, short holder and a cable.
FT-001 CIII LED Mxx	Red LED clearance lamp with a reflector, short holder and a cable Mxx long.
FT-001 CIII LED QS075	Red LED clearance lamp with a reflector, a short holder, a cable and a QS075 connector.
FT-001 CIII LED QS075 Mxx	Red LED clearance lamp with a reflector, a short holder, a cable Mxx long and a QS075 connector.
FT-001 CIII LED QS150	Red LED clearance lamp with a reflector, a short holder, a cable and a QS150 connector.
FT-001 CIII LED QS150 Mxx	Red LED clearance lamp with a reflector, a short holder, a cable Mxx long and a QS150 connector.
FT-001 CIV LED	Red LED clearance lamp with a reflector, long holder and a cable.
FT-001 CIV LED Mxx	Red LED clearance lamp with a reflector, long holder and a cable Mxx long.
FT-001 CIV LED QS075	Red LED clearance lamp with a reflector, a long holder, a cable and a QS075 connector.
FT-001 CIV LED QS075 Mxx	Red LED clearance lamp with a reflector, a long holder, a cable Mxx long and a QS075 connector.
FT-001 CIV LED QS150	Red LED clearance lamp with a reflector, a long holder, a cable and a QS150 connector.
FT-001 CIV LED QS150 Mxx	Red LED clearance lamp with a reflector, a long holder, a cable Mxx long and a QS150 connector.
FT-001 CV LED	Red LED clearance lamp with a reflector, a fender holder and a cable.
FT-001 CV LED Mxx	Red LED clearance lamp with a reflector, a fender holder and a cable Mxx long.
FT-001 CV LED QS075	Red LED clearance lamp with a reflector, a fender holder, a cable and a QS075 connector.
FT-001 CV LED QS075 Mxx	Red LED clearance lamp with a reflector, a fender holder, a cable Mxx and a QS075 connector.
FT-001 CV LED QS150	Red LED clearance lamp with a reflector, a fender holder, a cable and a QS150 connector.
FT-001 CV LED QS150 Mxx	Red LED clearance lamp with a reflector, a fender holder, a cable Mxx and a QS150 connector.

* where x is a digit between 0-9

IDIADA PC24020031

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

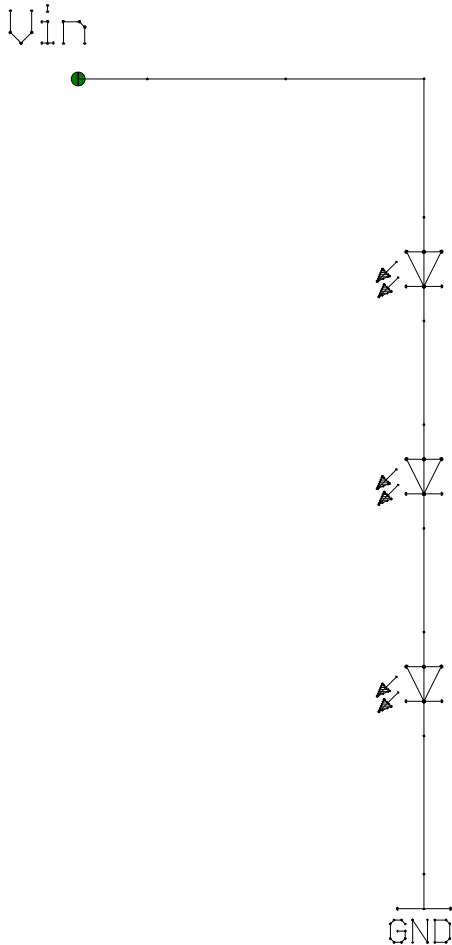


Drawn by: Karol Jonoszak	Date: 16-01-2024	Sheet: 11 of 12
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Type:
FT-001 C LED
rear position LED lamp with reflex reflector cat IA

Light source: LED CHIP SMD chip mounted 3 LED's red light color	Description: led connection This drawing is a part of the application for approval
--	--

Material used in manufacturing :		
part	material	color
lampshade	PMMA	red transparent
housing	PC/ABS	white
fixing frame	PBT	black
bracket	PP+TPE SEBS	black
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: 13-02-2024
Sheet: 11 of 12

Type: FT-001 C LED

rear position LED lamp with reflex reflector cat IA

Light source:

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

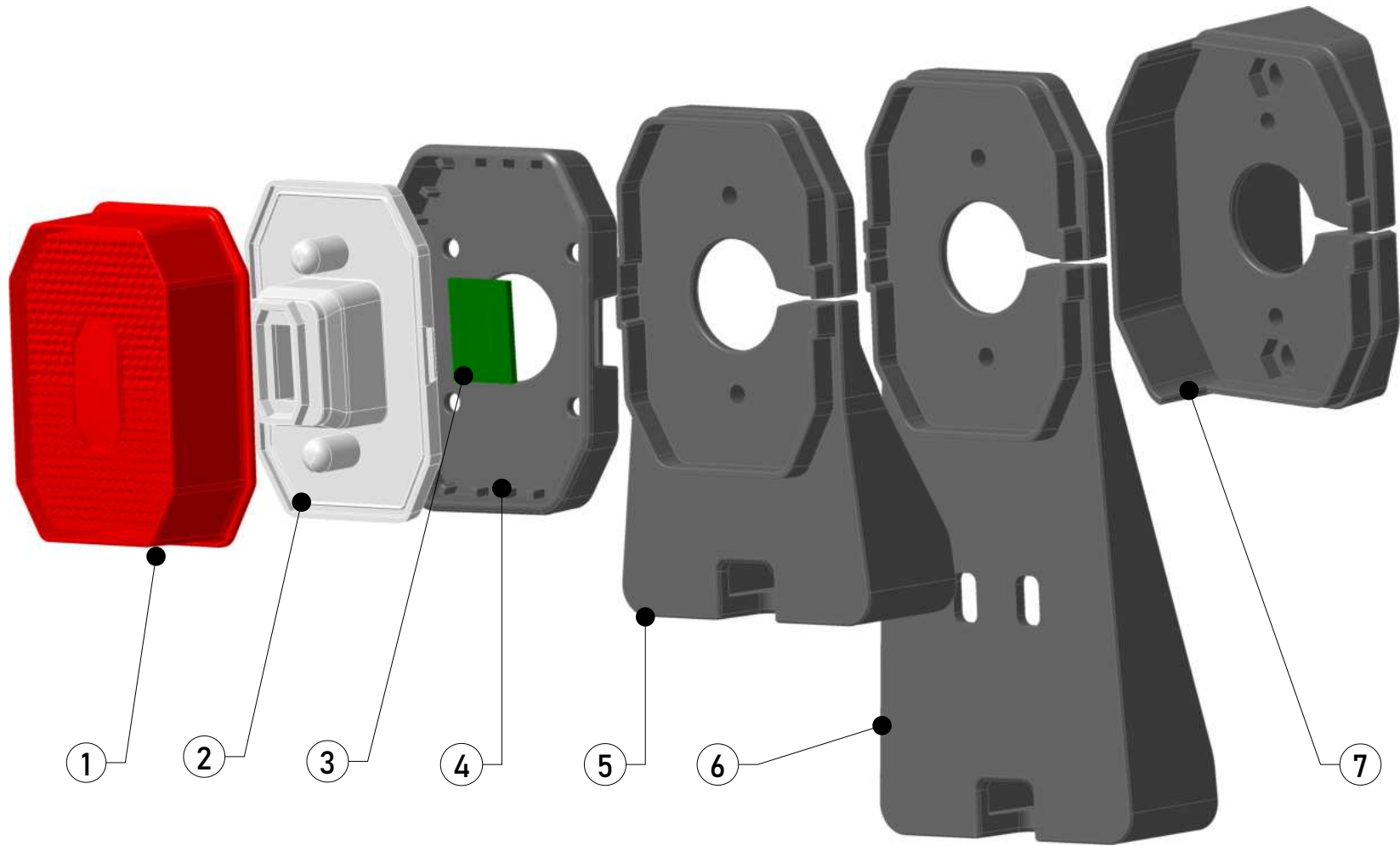
Description:

exploded lamp view

This drawing is a part of the application for approval

Material used in manufacturing :

part	material	color
lampshade	PMMA	red transparent
housing	PC/ABS	white
fixing frame	PBT	black
bracket	PP+TPE SEBS	black
PCB	FR4	
sealing	potting compound - epoxy resin	
cable	2 x0.75 mm ²	



	part
1	lampshade
2	housing
3	PCB
4	fixing frame
5	short bracket
6	long bracket
7	fender bracket

Manufacturer:
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Drawn by: Karol Jonoszak	Date: 16-01-2024	Sheet: 1 of 12
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Type:
FT-001 Z LED

LED sidemarking lamp with reflex reflector cat IA

Light source:

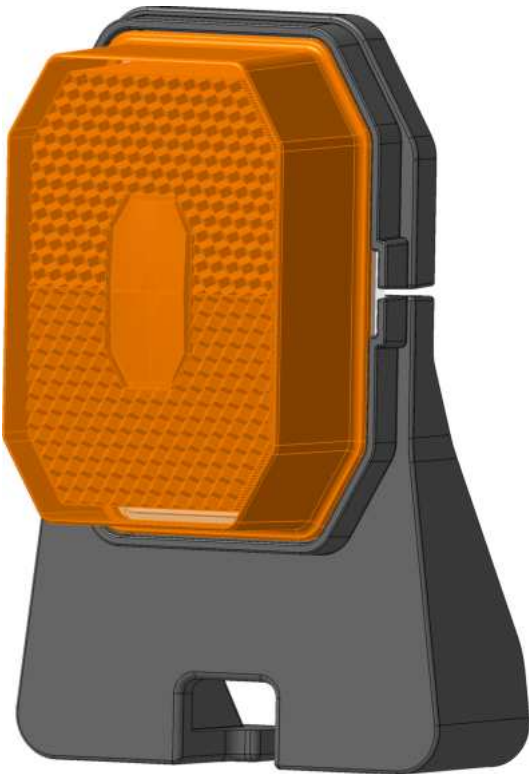
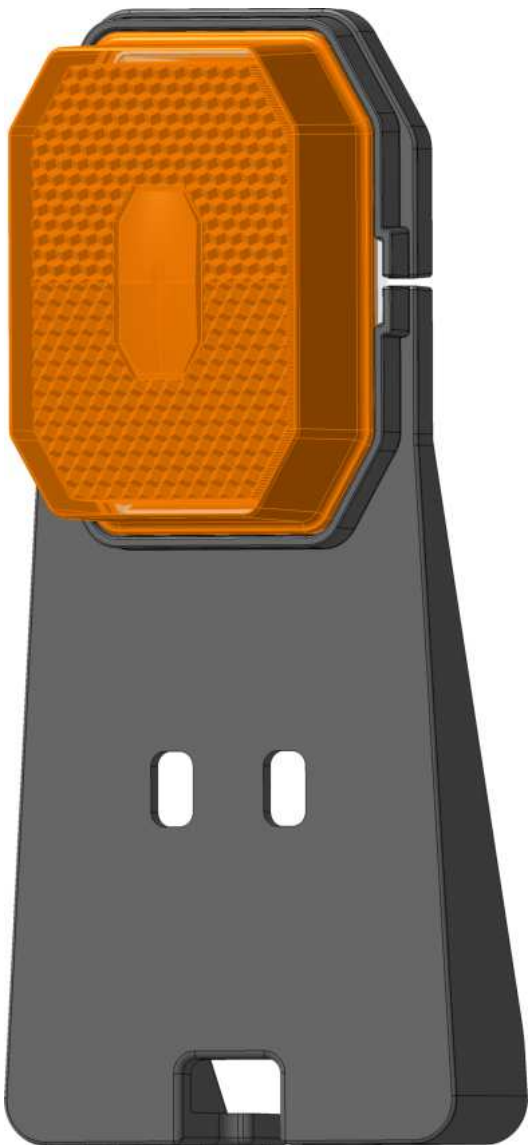
LED CHIP SMD chip mounted
3 LED's white light color

Description:

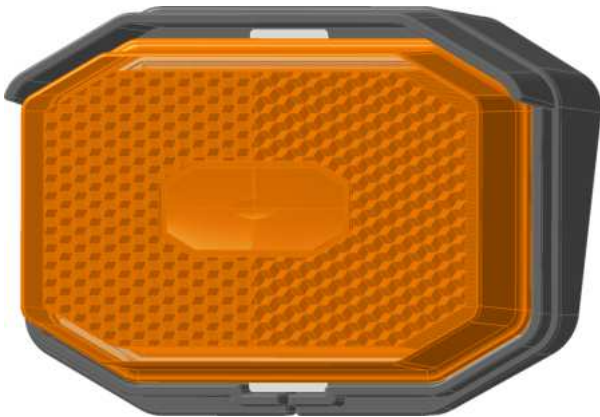
isometric lamp view

This drawing is a part of the application for approval

Material used in manufacturing :		
part	material	color
lampshade	PMMA	amber transparent
housing	PC/ABS	white
fixing frame	PBT	black
bracket	PP+TPE SEBS	black
PCB	FR4	
sealing	potting compound - epoxy resin	
cable	2 x0.75 mm ²	



sidemarking lamp SM1 with
retro reflex reflector cat IA



Manufacturer:
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Drawn by: Karol Jonoszak
Date: 16-01-2024
Sheet: 2 of 12

Type:
FT-001 Z LED

LED sidemarking lamp with reflex reflector cat IA

Light source:

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

Description:

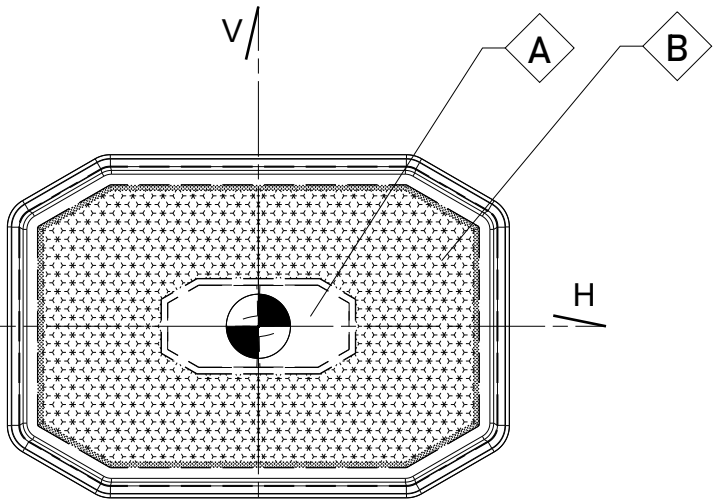
lamp function

This drawing is a part of the application for approval

Material used in manufacturing :

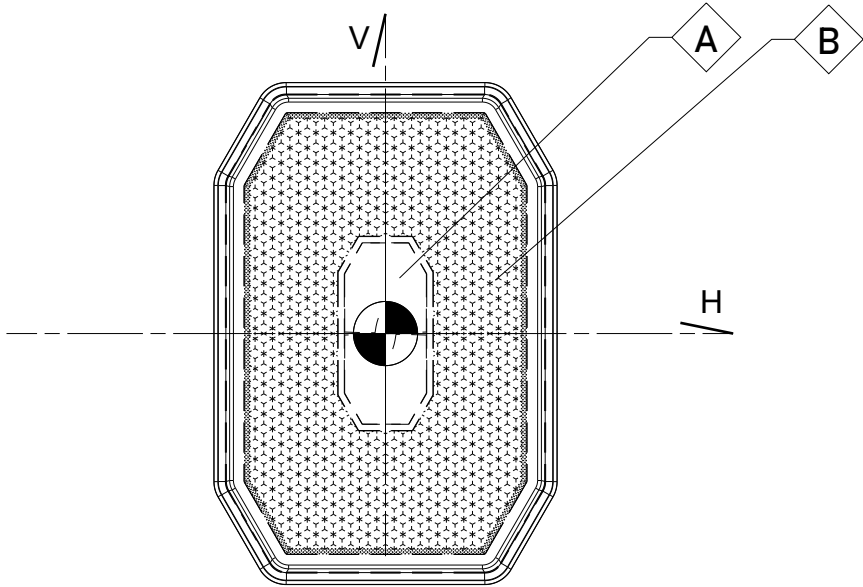
part	material	color
lampshade	PMMA	amber transparent
housing	PC/ABS	white
fixing frame	PBT	black
bracket	PP+TPE SEBS	black
PCB	FR4	
sealing	potting compound - epoxy resin	
cable	2 x0.75 mm ²	

horizontal assembly



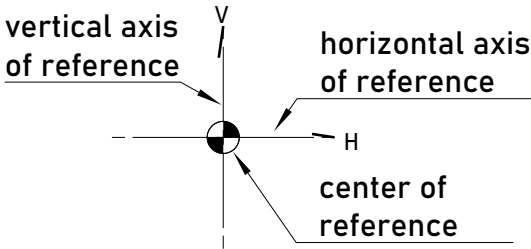
Front view
Scale: 1:1

vertical assembly



Front view
Scale: 1:1

A	light emitting area sidemarking light [SM1]
B	reflecting area [IA]



FRISTOM Spółka z ograniczoną odpowiedzialnością Sp.K.
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Fristom

Drawn by:	Date:	Sheet:
Karol Jonoszak	16-01-2024	3 of 12

Type:

FT-001 Z LED

LED sidemarking lamp with reflex reflector cat IA

Light source:

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

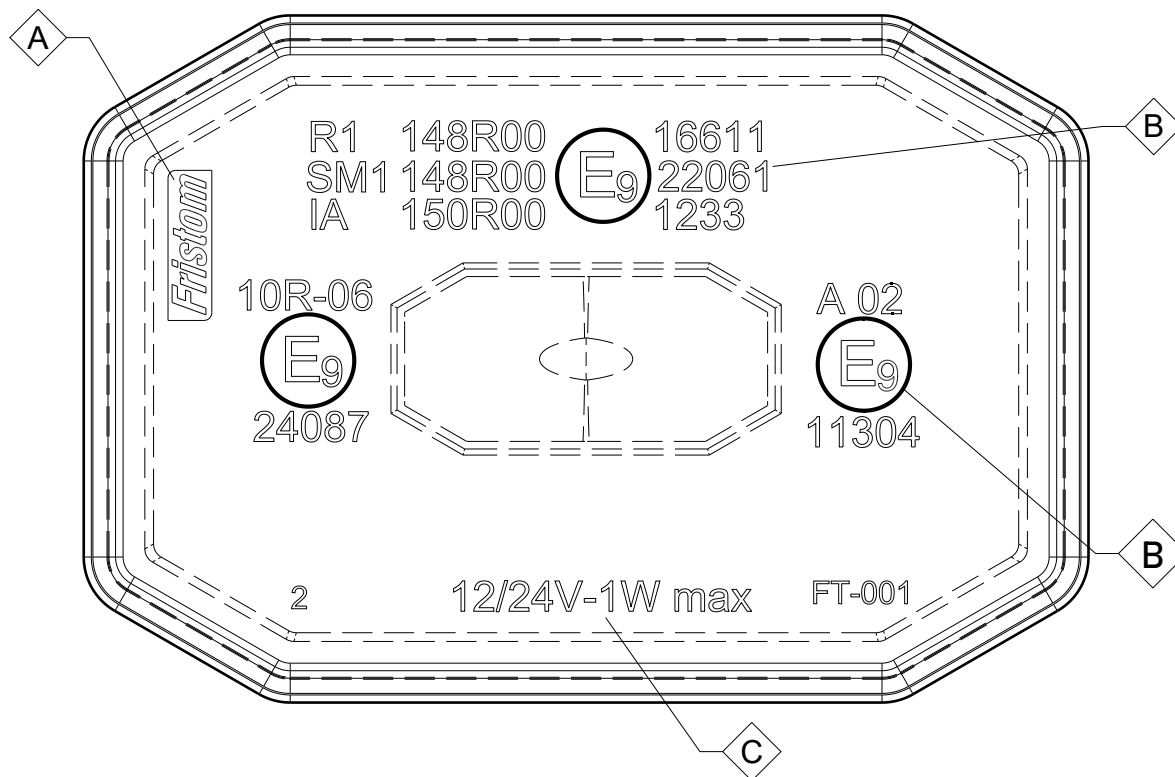
Description:

approval , trademark and electrical parameters markings

This drawing is a part of the application for approval

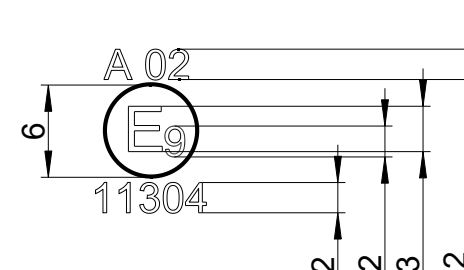
Material used in manufacturing :

part	material	color
lampshade	PMMA	amber transparent
housing	PC/ABS	white
fixing frame	PBT	black
bracket	PP+TPE SEBS	black
PCB	FR4	
sealing	potting compound - epoxy resin	
cable	2 x0.75 mm ²	



A	trademark location
B	approval number
C	electric parameters

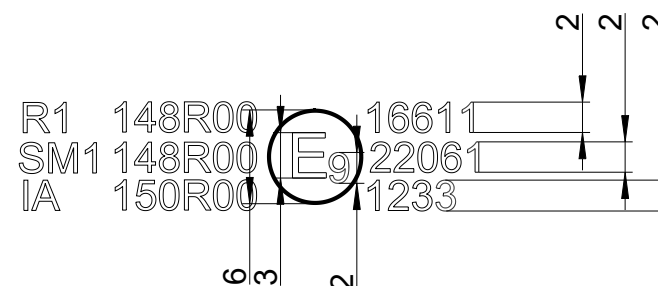
approval dimensions



electrical data

12/24 V DC input

A; SM1-12V/24V=0,25W/0,5W

$$R1-12V/24V=0,5W/1W$$


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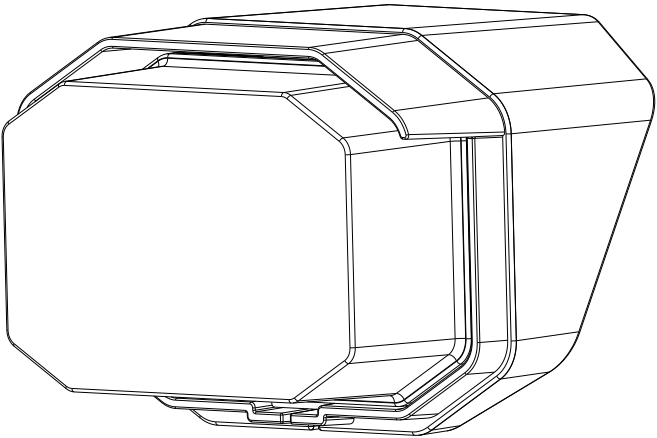
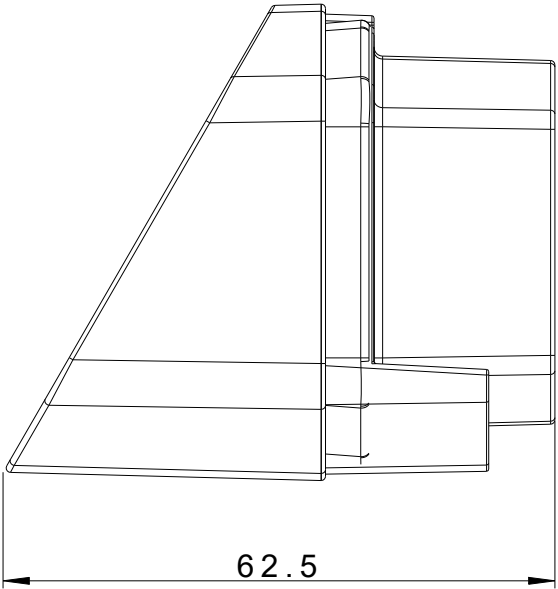
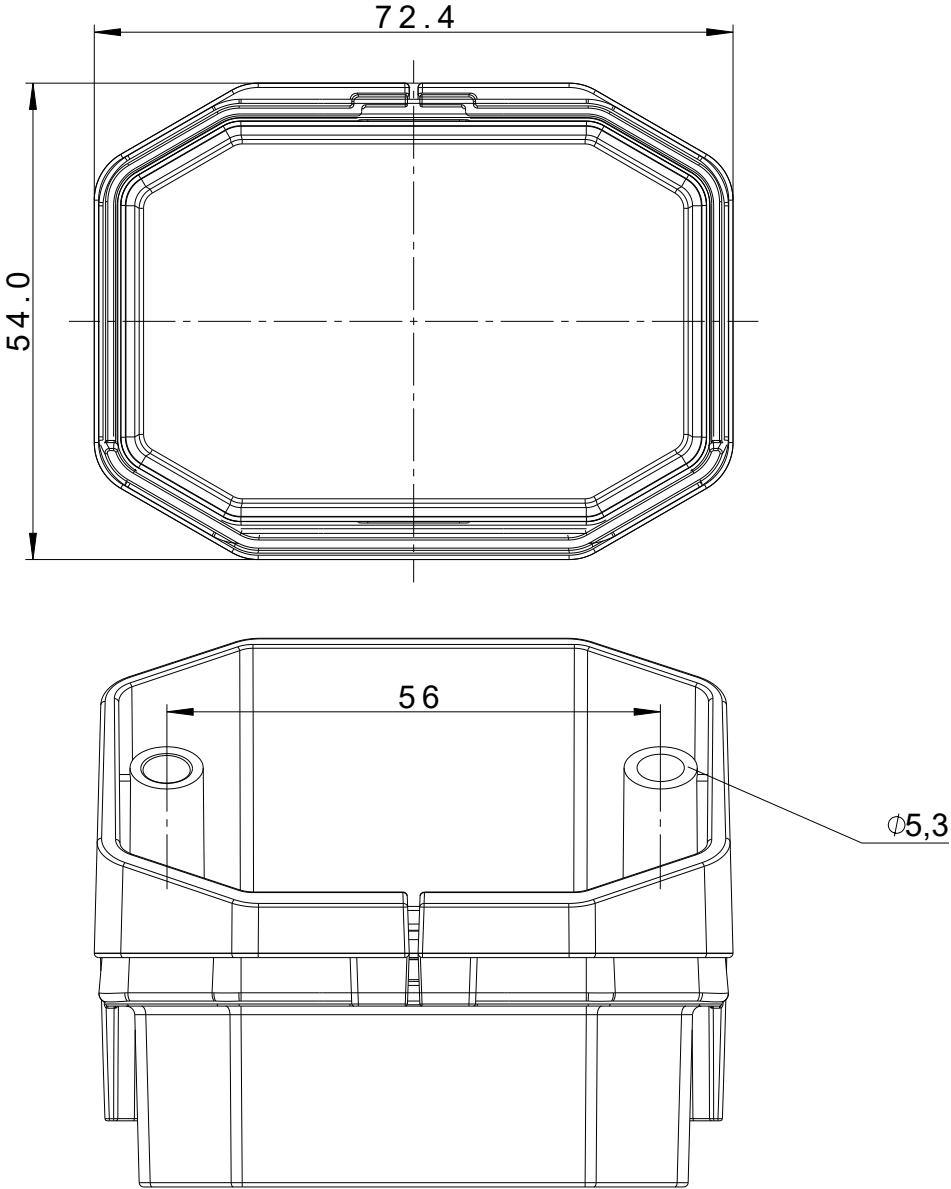
Drawn by: Karol Jonoszak
Date: 16-01-2024
Sheet: 4 of 12

Type:
FT-001 Z LED
LED sidemarking lamp with reflex reflector cat IA

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

Description:
general lamp dimension , assembly variant
This drawing is a part of the application for approval

Material used in manufacturing :		
part	material	color
lampshade	PMMA	amber transparent
housing	PC/ABS	white
fixing frame	PBT	black
bracket	PP+TPE SEBS	black
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: 16-01-2024
Sheet: 5 of 12

Type: FT-001 Z LED
LED sidemarking lamp with reflex reflector cat IA

Light source:

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

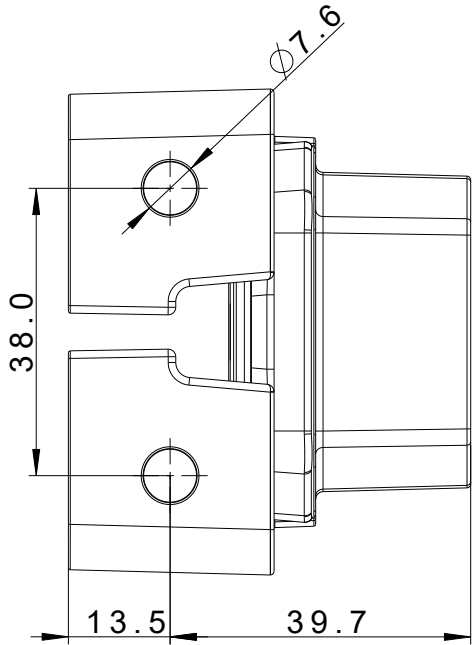
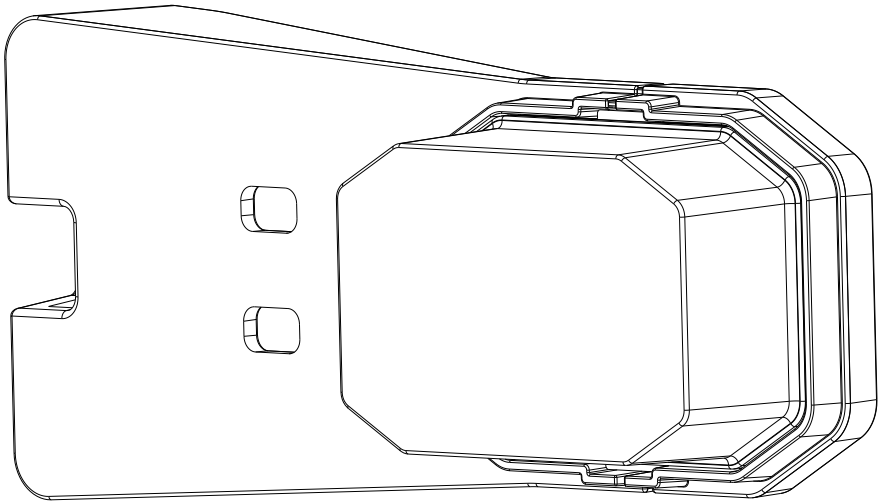
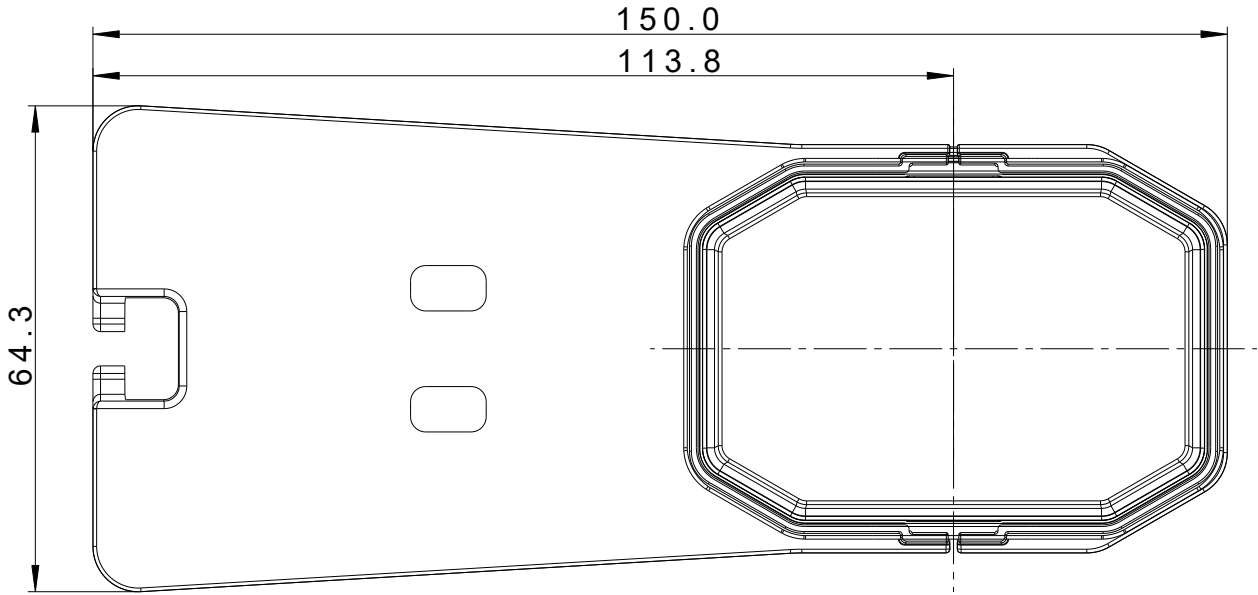
Description:

general lamp dimension , assembly variant

This drawing is a part of the application for approval

Material used in manufacturing :

part	material	color
lampshade	PMMA	amber transparent
housing	PC/ABS	white
fixing frame	PBT	black
bracket	PP+TPE SEBS	black
PCB	FR4	
sealing	potting compound - epoxy resin	
cable	2 x0.75 mm ²	



Manufacturer:
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Drawn by: Karol Jonoszak
Date: 16-01-2024
Sheet: 6 of 12

Type:
FT-001 Z LED
LED sidemarking lamp with reflex reflector cat IA

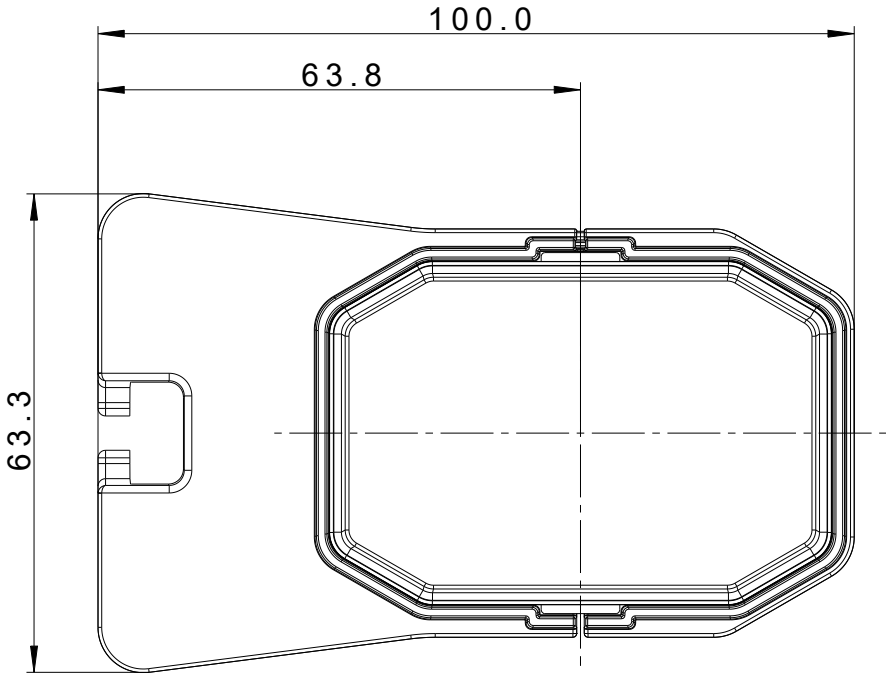
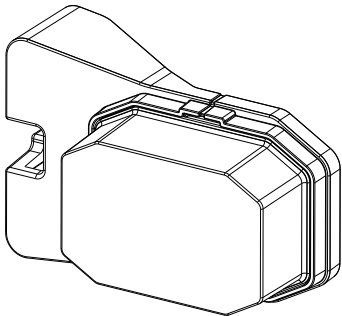
Light source:
LED CHIP SMD chip mounted
3 LED's white light color

Description:
general lamp dimension , assembly variant
This drawing is a part of the application for approval

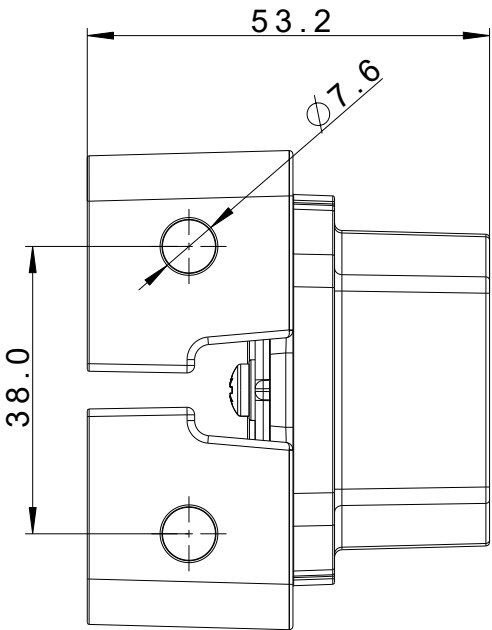
Material used in manufacturing :

part	material	color
lampshade	PMMA	amber transparent
housing	PC/ABS	white
fixing frame	PBT	black
bracket	PP+TPE SEBS	black
PCB	FR4	
sealing	potting compound - epoxy resin	
cable	2 x0.75 mm ²	

Isometric view[4]
Scale: 1:2



Front view[5]
Scale: 1:1



Left view[4]
Scale: 1:1

Manufacturer:
FRISTOM Spółka z ograniczoną odpowiedzialnością Sp.K.
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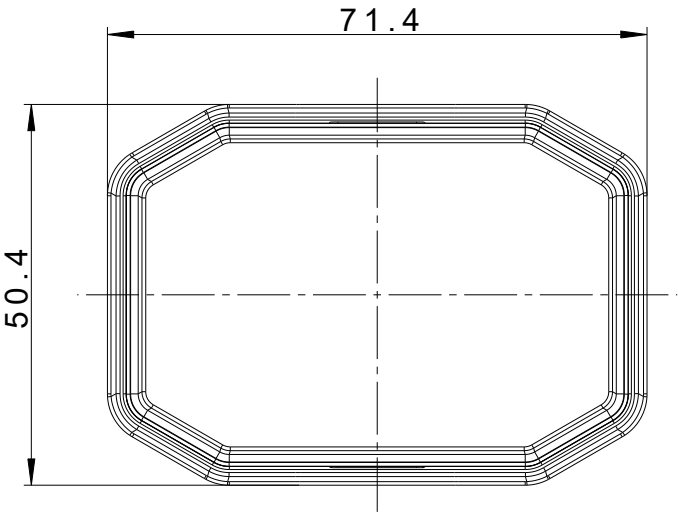
Drawn by: Karol Jonoszak
Date: 16-01-2024
Sheet: 7 of 12

Type:
FT-001 Z LED
LED sidemarking lamp with reflex reflector cat IA

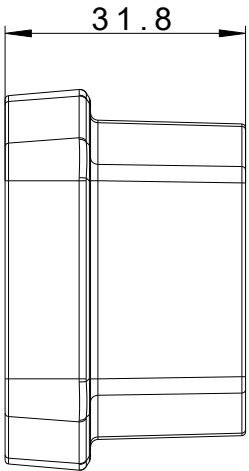
Light source:
LED CHIP SMD chip mounted
3 LED's red light color

Description:
general lamp dimension , assembly variant
This drawing is a part of the application for approval

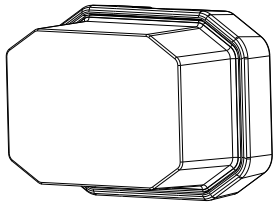
Material used in manufacturing :		
part	material	color
lampshade	PMMA	amber transparent
housing	PC/ABS	white
fixing frame	PBT	black
bracket	PP+TPE SEBS	black
PCB	FR4	
sealing	potting compound - epoxy resin	
cable	2 x0.75 mm ²	



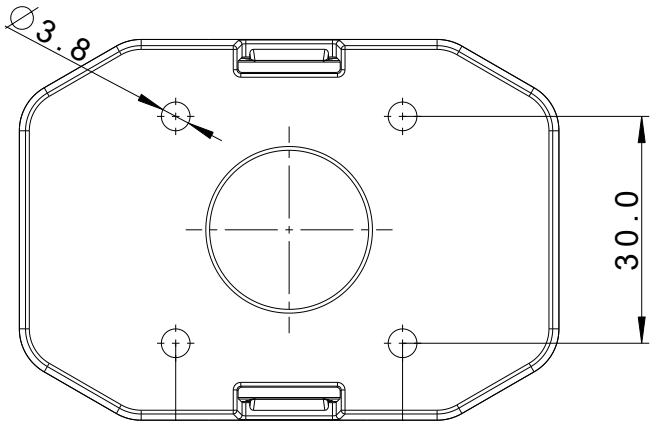
Front view
Scale: 1:1



Left view
Scale: 1:1



Isometric view
Scale: 1:2



Rear view
Scale: 1:1

Manufacturer:
FRISTOM Spółka z ograniczoną odpowiedzialnością Sp.K.
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Drawn by: Karol Jonoszak
Date: 16-01-2024
Sheet: 8 of 12

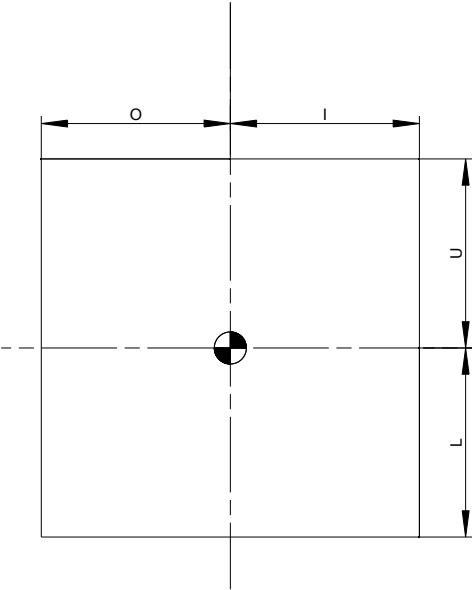
Type:
FT-001 Z LED
LED sidemarking lamp with reflex reflector cat IA

Light source:
LED CHIP SMD chip mounted
3 LED`s white light color

Description:
lighting surface

This drawing is a part of the application for approval

part	material	color
lampshade	PMMA	amber transparent
housing	PC/ABS	white
fixing frame	PBT	black
bracket	PP+TPE SEBS	black
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]
SM1	13	13	6,5	6,5

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: 16-01-2024
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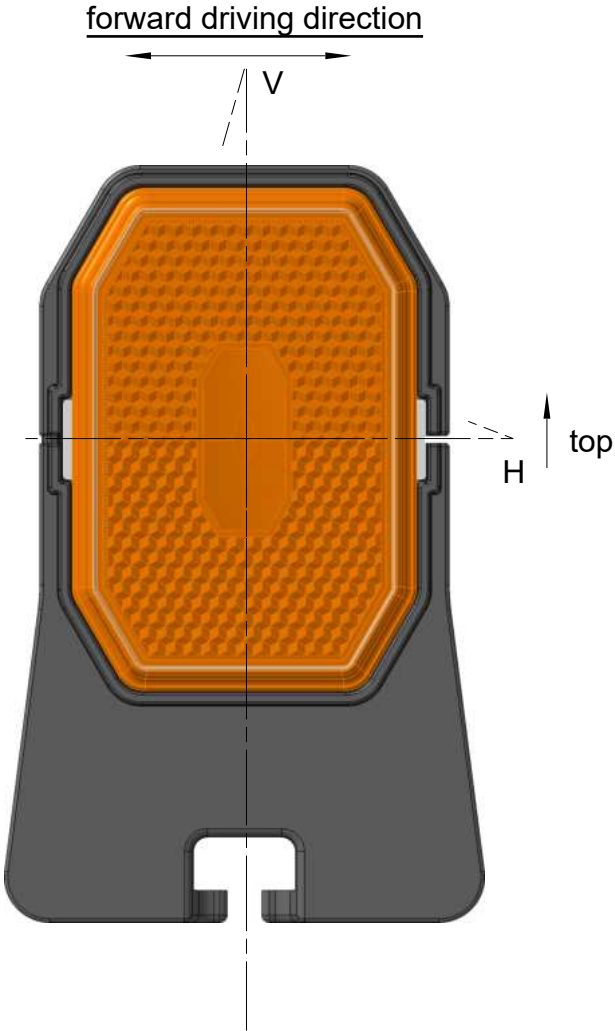
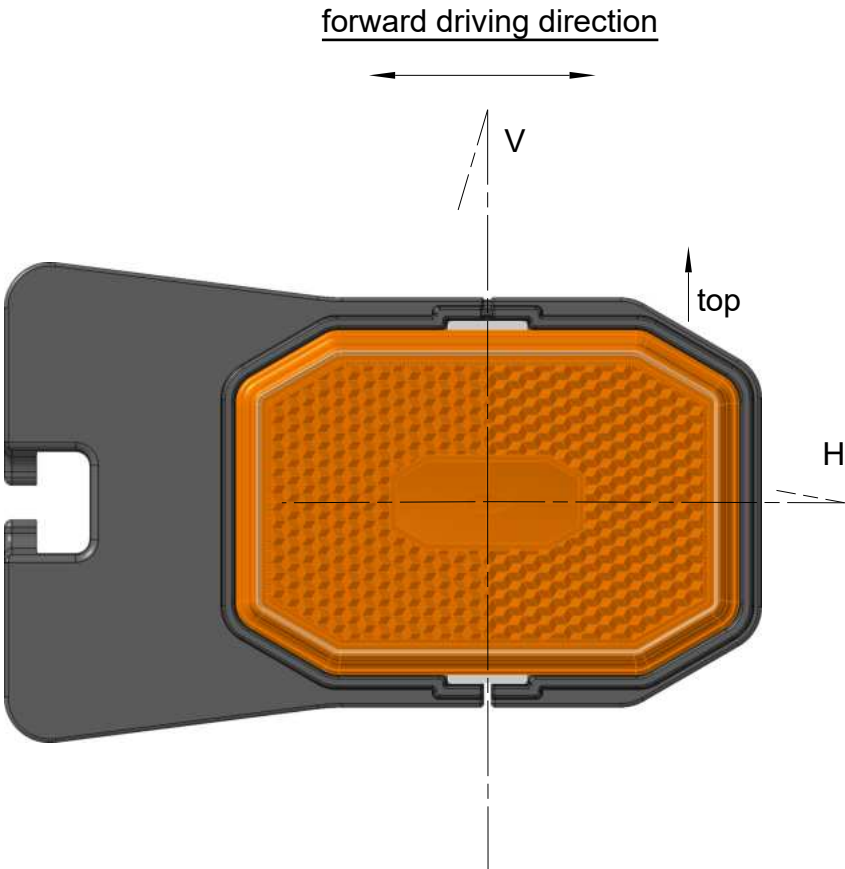
Type:
FT-001 Z LED
LED sidemarking lamp with reflex reflector cat IA

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

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

Material used in manufacturing :

part	material	color
lampshade	PMMA	amber transparent
housing	PC/ABS	white
fixing frame	PBT	black
bracket	PP+TPE SEBS	black
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: 16-01-2024
Sheet: 10 of 12

Type:
FT-001 Z LED

LED sidemarking lamp with reflex reflector cat IA

Light source: LED CHIP SMD chip mounted 3 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	PC/ABS	white
fixing frame	PBT	black
bracket	PP+TPE SEBS	black
PCB	FR4	
sealing	potting compound - epoxy resin	
cable	2 x0.75 mm ²	

Index	Description
FT-001 Z LED	Yellow LED clearance lamp with a reflector and a cable.
FT-001 Z LED Mxx	Yellow LED clearance lamp with a reflector and a cable Mxx long.
FT-001 Z LED QS075	Yellow LED clearance lamp with a reflector, a cable and a QS075 connector.
FT-001 Z LED QS075 Mxx	Yellow LED clearance lamp with a reflector, a cable Mxx long and a QS075 connector.
FT-001 Z LED QS150	Yellow LED clearance lamp with a reflector, a cable and a QS150 connector.
FT-001 Z LED QS150 Mxx	Yellow LED clearance lamp with a reflector, a cable Mxx long and a QS150 connector.
FT-001 ZI LED	Yellow LED clearance lamp with a reflector, an angle holder and a cable.
FT-001 ZI LED Mxx	Yellow LED clearance lamp with a reflector, an angle holder and a cable Mxx long.
FT-001 ZI LED QS075	Yellow LED clearance lamp with a reflector, an angle holder, a cable and a QS075 connector
FT-001 ZI LED QS075 Mxx	Yellow LED clearance lamp with a reflector, an angle holder, a cable Mxx long and a QS075 connector
FT-001 ZI LED M10 QS150	Yellow LED clearance lamp with a reflector, an angle holder, a cable and a QS150 connector
FT-001 ZI LED QS150 Mxx	Yellow LED clearance lamp with a reflector, an angle holder, a cable Mxx long and a QS150 connector
FT-001 ZII LED	Yellow LED clearance lamp with a reflector, a flat holder and a cable.
FT-001 ZII LED Mxx	Yellow LED clearance lamp with a reflector, a flat holder and a cable Mxx long.
FT-001 ZII LED QS075	Yellow LED clearance lamp with a reflector, a flat holder, a cable and a QS075 connector.
FT-001 ZII LED QS075 Mxx	Yellow LED clearance lamp with a reflector, a flat holder, a cable Mxx and a QS075 connector.
FT-001 ZII LED QS150	Yellow LED clearance lamp with a reflector, a flat holder, a cable and a QS150 connector.
FT-001 ZII LED QS150 Mxx	Yellow LED clearance lamp with a reflector, a flat holder, a cable Mxx and a QS150 connector.
FT-001 ZIII LED	Yellow LED clearance lamp with a reflector, short holder and a cable.
FT-001 ZIII LED Mxx	Yellow LED clearance lamp with a reflector, short holder and a cable Mxx long.
FT-001 ZIII LED QS075	Yellow LED clearance lamp with a reflector, a short holder, a cable and a QS075 connector.
FT-001 ZIII LED QS075 Mxx	Yellow LED clearance lamp with a reflector, a short holder, a cable Mxx long and a QS075 connector.
FT-001 ZIII LED QS150	Yellow LED clearance lamp with a reflector, a short holder, a cable and a QS150 connector.
FT-001 ZIII LED QS150 Mxx	Yellow LED clearance lamp with a reflector, a short holder, a cable Mxx long and a QS150 connector.
FT-001 ZIV LED	Yellow LED clearance lamp with a reflector, long holder and a cable.
FT-001 ZIV LED Mxx	Yellow LED clearance lamp with a reflector, long holder and a cable Mxx long.
FT-001 ZIV LED QS075	Yellow LED clearance lamp with a reflector, a long holder, a cable and a QS075 connector.
FT-001 ZIV LED QS075 Mxx	Yellow LED clearance lamp with a reflector, a long holder, a cable Mxx long and a QS075 connector.
FT-001 ZIV LED QS150	Yellow LED clearance lamp with a reflector, a long holder, a cable and a QS150 connector.
FT-001 ZIV LED QS150 Mxx	Yellow LED clearance lamp with a reflector, a long holder, a cable Mxx long and a QS150 connector.
FT-001 ZV LED	Yellow LED clearance lamp with a reflector, a fender holder and a cable.
FT-001 ZV LED Mxx	Yellow LED clearance lamp with a reflector, a fender holder and a cable Mxx long.
FT-001 ZV LED QS075	Yellow LED clearance lamp with a reflector, a fender holder, a cable and a QS075 connector.
FT-001 ZV LED QS075 Mxx	Yellow LED clearance lamp with a reflector, a fender holder, a cable Mxx and a QS075 connector.
FT-001 ZV LED QS150	Yellow LED clearance lamp with a reflector, a fender holder, a cable and a QS150 connector.
FT-001 ZV LED QS150 Mxx	Yellow LED clearance lamp with a reflector, a fender holder, a cable Mxx and a QS150 connector.

* where x is a digit between 0-9

iDiADA PC24020031

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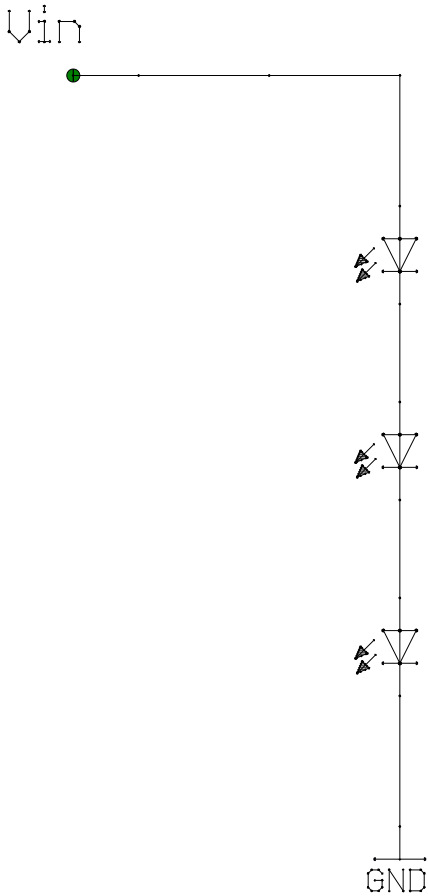


Drawn by: Karol Jonoszak	Date: 16-01-2024	Sheet: 11 of 12
------------------------------------	----------------------------	---------------------------

Type:
FT-001 Z LED
LED sidemarking lamp with reflex reflector cat IA

Light source: LED CHIP SMD chip mounted 3 LED's white light color	Description: led connection This drawing is a part of the application for approval
--	--

Material used in manufacturing :		
part	material	color
lampshade	PMMA	amber transparent
housing	PC/ABS	white
fixing frame	PBT	black
bracket	PP+TPE SEBS	black
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: 13-02-2024
Sheet: 11 of 12

Type:
FT-001 Z LED

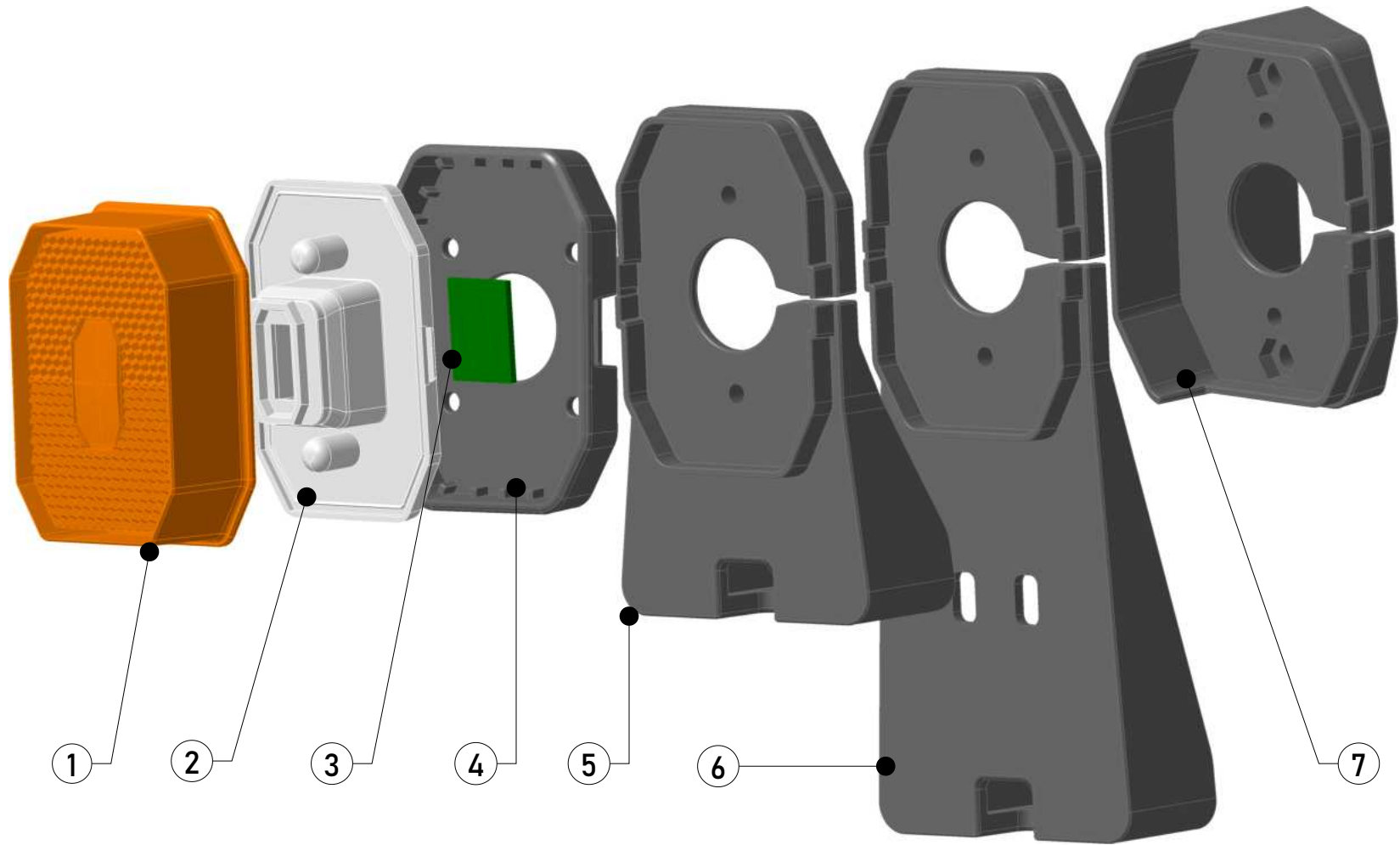
LED sidemarking lamp with reflex reflector cat IA

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

Description:
exploded lamp view

This drawing is a part of the application for approval

Material used in manufacturing :		
part	material	color
lampshade	PMMA	amber transparent
housing	PC/ABS	white
fixing frame	PBT	black
bracket	PP+TPE SEBS	black
PCB	FR4	
sealing	potting compound - epoxy resin	
cable	2 x0.75 mm ²	



	part
1	lampshade
2	housing
3	PCB
4	fixing frame
5	short bracket
6	long bracket
7	fenders bracket