



MINISTERIO
DE INDUSTRIA
Y TURISMO

SECRETARÍA DE ESTADO DE
INDUSTRIA

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



S1-E9-02.11861 EXT. 02

Página / Page 1/4

COMUNICACIÓN / COMMUNICATION:

Concerniente a /
Concerning: ⁽¹⁾

~~La concesión de homologación / Approval granted~~

~~La extensión de homologación / Approval extended~~

~~La denegación de homologación / Approval refused~~

~~La retirada de homologación / Approval withdrawn~~

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

de un tipo de lámpara en aplicación del Reglamento UN N° 007 /
of a type of lamp pursuant to UN Regulation No.007

Lámpara /
Lamp: ⁽¹⁾

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

~~Indicador de dirección / Direction indicator lamp~~

~~Luz de pare / Stop lamp~~

~~Luz de posición / Position lamp~~

~~Luz de gálibo / End-outline marker lamp~~

~~Luz de marcha atrás / Reversing lamp~~

~~Luz de maniobra / Manoeuvring lamp~~

~~Luz antiniebla trasera / Rear fog lamp~~

~~Luz de estacionamiento / Parking lamp~~

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

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

Categoría de la lámpara /
Category of the lamp:

S1

Cambio de índice /
Change index:

2

Nº de homologación /
Approval No:

S1-E9-02.11861 EXT. 02

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

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





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1. Marca de fábrica o comercial de la lámpara / *Trade name or mark of the lamp*: Fristom
2. Tipo dado por el fabricante para la luz / *Manufacturer's name for the type of lamp*: FT-130 COF
3. Nombre y dirección del fabricante / *Manufacturer's name and address*:
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

Nota / *Note*: Este dispositivo puede ser fabricado en cualquiera de las Plantas de Fabricación que consten declaradas en el Anexo I del Certificado Conformidad Producción en vigor emitido por la UCA. / *This device may be manufactured in any of the Manufacturing Plants declared in Annex I of the Conformity Production Certificate in force issued by the UCA.*

4. Si procede, nombre y dirección del representante del fabricante / *If applicable, name and address of the manufacturer's representative*: ---
5. Dispositivo presentado a homologación el / *Submitted for approval on*: 05/01/2024
6. Servicio técnico encargado de los ensayos de homologación / *Technical Service responsible for conducting approval tests*: IDIADA
7. Fecha del informe emitido por dicho servicio / *Date of report issued by that Service*: 13/02/2024
8. Número del informe emitido por dicho servicio / *Number of report issued by that Service*: PC15020194, PC16090080, **PC24020124**
9. Breve descripción / *Concise description*:

9.1 Por categoría de luz / *By category of lamp*: luces de pare / *stop lamps*

- Para la instalación en el exterior ~~o en el interior o ambos~~ (1) / *For mounting either outside ~~or inside or both~~ (1)*
- Color de la luz emitida / *Colour of the light emitted*: rojo / *red* - ~~blanco / white~~ (1)
- Número, categoría(s) y tipo de la(s) fuente(s) luminosa(s) / *Number, category and kind of light source(s)*:
 - Luz de pare / *Stop lamp*: 6-functional LED
- Voltaje y potencia / *Voltage and wattage*:
 - Luz de pare / *Stop lamp*: 12V/24V – 1W/2W
- Código de identificación específico del módulo de fuente de luz / *Light source module specific identification code*: ---
- 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)
- Condiciones geométricas de instalación y variaciones relacionadas, en su caso / *Geometrical conditions of installation and relating variations, if any*: ---

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



Firmado el 13/03/2024 10:52:15 : 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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- Aplicación de una guía de control electrónica/control de intensidad variable de la fuente luminosa / *Application of an electronic light source control gear/variable intensity control: ---*
 - a) formando parte de la luz / *being part of the lamp: sí/+yes--no/-no (1)*
 - b) no formando parte de la luz / *being not part of the lamp: sí/+yes--no/-no (1)*
- Tensión(es) de entrada suministrada(s) por la guía de control electrónica/control de intensidad variable de la(s) fuente(s) luminosa(s) / *Input voltage(s) supplied by an electronic light source control gear/variable intensity control: ---*
- Fabricante de la guía de control electrónica/control de intensidad variable de la(s) fuente(s) luminosa(s) y número de identificación (cuando la guía de control de la fuente luminosa forma parte de la luz pero no está incluida en el cuerpo de la luz) / *Electronic light source control gear/variable intensity control manufacturer and identification number (when the light source control gear is part of the lamp but is not included into the lamp body): ---*
- Intensidad luminosa variable / *Variable luminous intensity: sí/+yes - no / no (1)*
- ~~La luz de posición delantera / luz de posición trasera / luz de pare / luz de gálibo~~ (1) es sólo para uso en un vehículo equipado con un testigo que indique el fallo / ~~The front position lamp / rear position lamp / stop lamp / end-outline marker lamp~~ (1) is only for use on a vehicle fitted with a tell-tale indicating failure: *sí/+yes - no / no (1)*

9.2. Funcion(es) producida por una lámpara interdependiente que forma parte de un sistema de lámparas interdependientes / *Function(s) produced by an interdependent lamp forming part of an interdependent lamp system:*

- Luz de posición delantera / *Front position lamp: sí/+yes--no/-no (1)*
 - R1 Luz de posición trasera / *R1 Rear position lamp: sí/+yes--no/-no (1)*
 - R2 Luz de posición trasera / *R2 Rear position lamp: sí/+yes--no/-no (1)*
 - S1 Luz de pare / *S1 Stop lamp: sí/+yes--no/-no (1)*
 - S2 Luz de pare / *S2 Stop lamp: sí/+yes--no/-no (1)*
 - S3 Luz de pare / *S3 Stop lamp: sí/+yes--no/-no (1)*
 - S4 Luz de pare / *S4 Stop lamp: sí/+yes--no/-no (1)*
 - Luz de gálibo / *End-outline marker lamp: sí/+yes--no/-no (1)*
10. Posición de la marca de homologación o Identificador Único / *Position of the approval mark or Unique Identifier (UI):* Ver documentación suministrada por el fabricante. / *See documentation supplied by the manufacturer.*
11. Motivo(s) de la extensión (si procede) / *Reason(s) for extension (if applicable):* Nueva posición vertical añadida para la lámpara instalada / *New lamp fitted position added VERTICAL*
12. Se ~~concede~~/deniega/extiende/retira la homologación ⁽¹⁾ / *Approval granted/extended/refused/withdrawn ⁽¹⁾*
13. Lugar / *Place:* Madrid
14. Fecha / *Date:* Ver firma electrónica. / *See electronic signature.*
15. Firma / *Signature:*

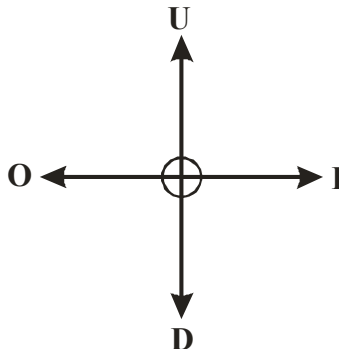
EL DIRECTOR GENERAL DE ESTRATEGIA INDUSTRIAL Y DE LA PEQUEÑA Y MEDIANA
EMPRESA
P.D. Orden ITU/103/2024, de 8 de febrero de 2024

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SUPERFICIE ILUMINANTE / ILLUMINATING SURFACE



Límite superior / Upper boundary "U" (mm)	Límite inferior / Down boundary "D" (mm)	Límite interior / Inner boundary "I" (mm)	Límite exterior / Outer boundary "O" (mm)
16.0	16.0	24.0	26.0

MOTIVOS DE LA EXTENSIÓN / REASONS OF EXTENSION

Nueva posición vertical añadida para la lámpara instalada / *New lamp fitted posiiton added VERTICAL*

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

Fecha del ensayo / *Test date*: 20/12/2023-21/12/2023

Joan Fonts Sala
INGENIERO DE ENSAYOS
TEST ENGINEER

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

INFORMATION FOLDER:

FIRST APPLICATION
DATE: 10.01.2024

1. Specification data

Type	FT-130 COF	
Trade name or mark	Fristom	
Variants	See drawing	
Function	reflex reflector cat IA;stop S1;direction indicator 2a;position light R1;registration plate light L;reversing light AR	
Color	red;amber or white light color	
Rated	Voltage	see drawing
	Wattage	see drawing
Applicable Regulation	R03;R04;R06;R07;R23	
Light Source and connection	See drawing	
Location of marking	Light Source marks	See the drawing
	Trade mark	See the drawing
	Approval mark	See the drawing

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

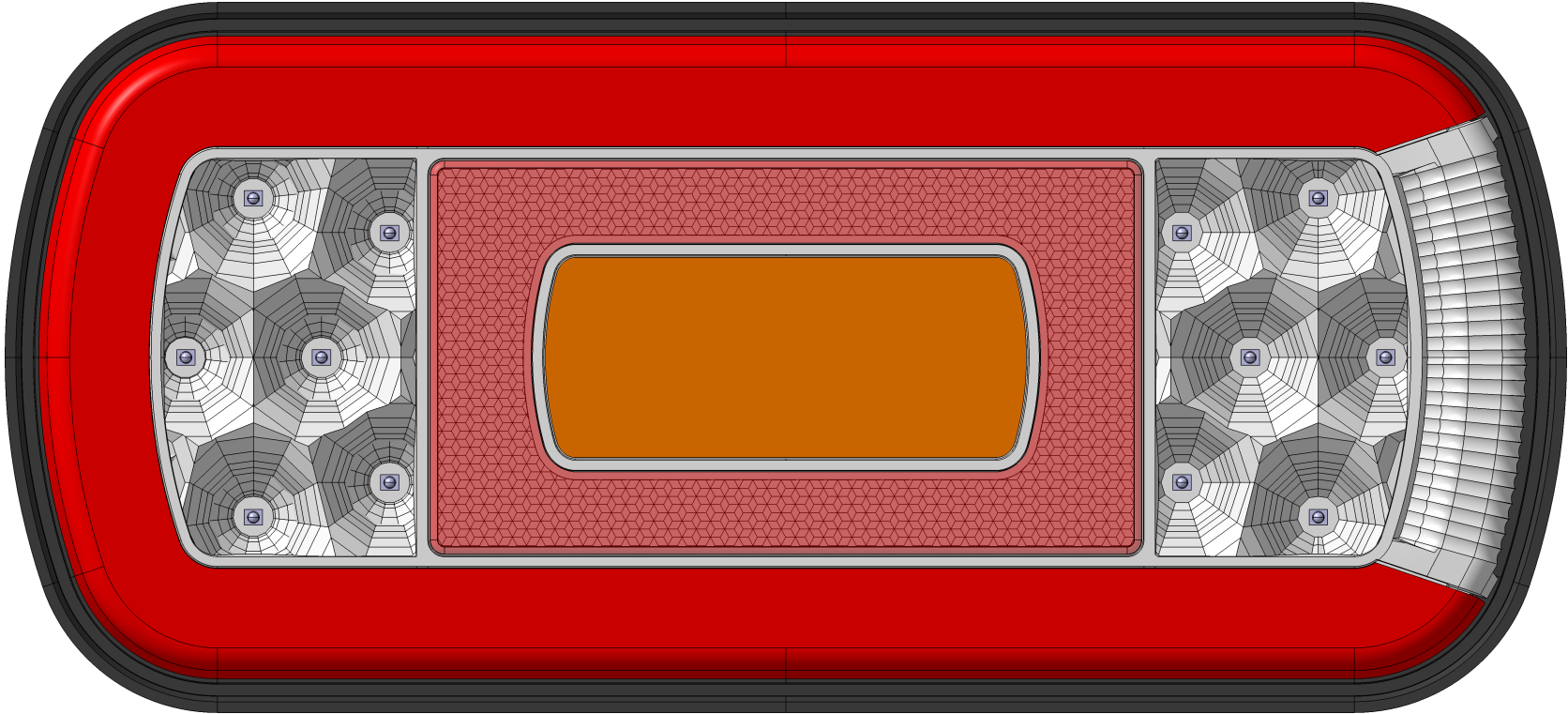
4. REASON OF THE APPROVAL EXTENSION:

- new lamp fitting position added VERTICAL

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 Fristom			Type: FT-130 COF LED multifunction rear lamp		Material used in manufacturing - lampshade PC clear transparent - housing ABS black - red filter insert PMMA milky red - amber filter insert PMMA amber - reflex reflector PMMA red - potting compound epoxy resin - printed circuit board type FR4 - reflector ABS white PVD coated
Drawn by: Karol Jonoszak	Date: 05-01-2024	Sheet: 1 of 16	Light source: - light source light 20 LED chip's red light color - light source stop light 6 LED chip's red light color - light source fog light 6 LED chip's red light color - light source registration plate light 6 LED chip's white light color - light source direction indicator light 4 LED chip's amber light color	Description: front lamp view general view This drawing is a part of the application for approval extension	

left lamp front view ,
right lamp is a mirror



Manufacturer:
FRISTOM Spółka z ograniczoną odpowiedzialnością Sp.K.
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Drawn by: Karol Jonoszak	Date: 05-01-2024	Sheet: 2 of 16
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Type:
FT-130 COF

LED multifunction rear lamp

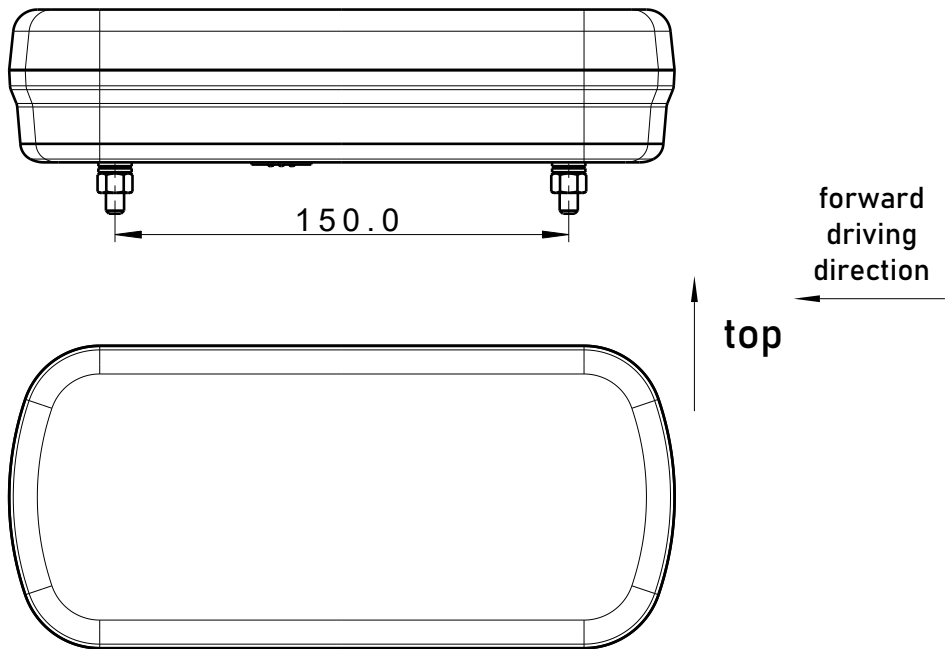
Light source:
- light source light 20 LED chip's red light color
- light source stop light 6 LED chip's red light color
- light source fog light 6 LED chip's red light color
- light source registration plate light 6 LED chip's white light color
- light source direction indicator light 4 LED chip's amber light color

Description:
installation on the vehicle
This drawing is a part of the application for approval extension

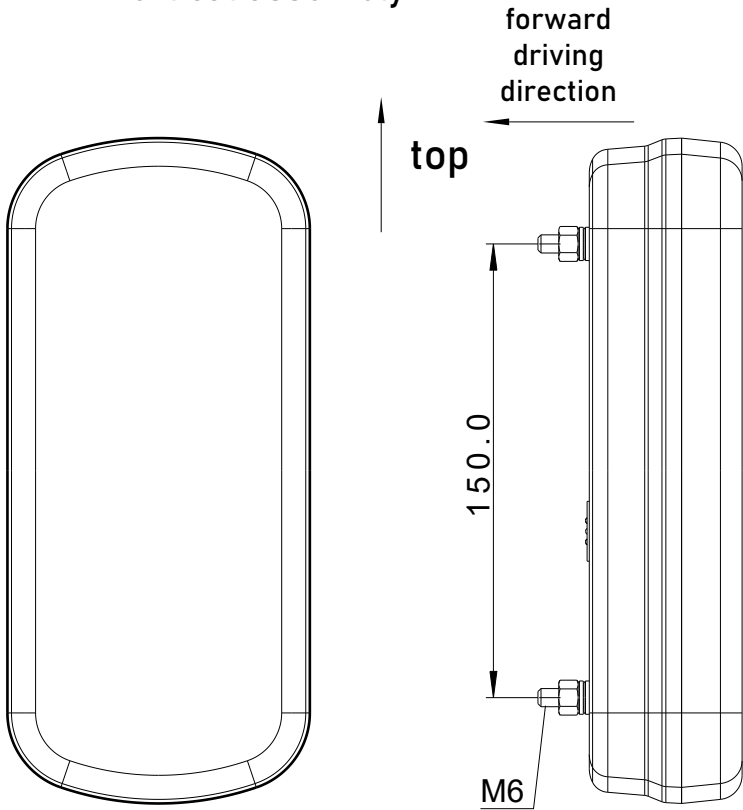
Material used in manufacturing

- lampshade PC clear transparent
- housing ABS black
- red filter insert PMMA milky red
- amber filter insert PMMA amber
- reflex reflector PMMA red
- potting compound epoxy resin
- printed circuit board type FR4
- reflector ABS white PVD coated

Horizontal assembly



Vertical assembly



Manufacturer:
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Drawn by: Karol Jonoszak
Date: 05-01-2024
Sheet: 3 of 16

Type: FT-130 COF

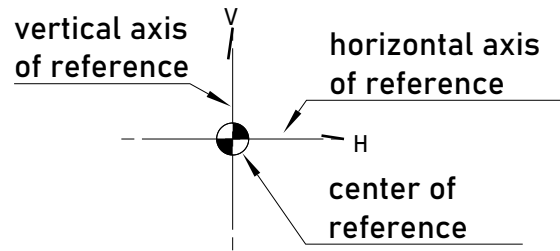
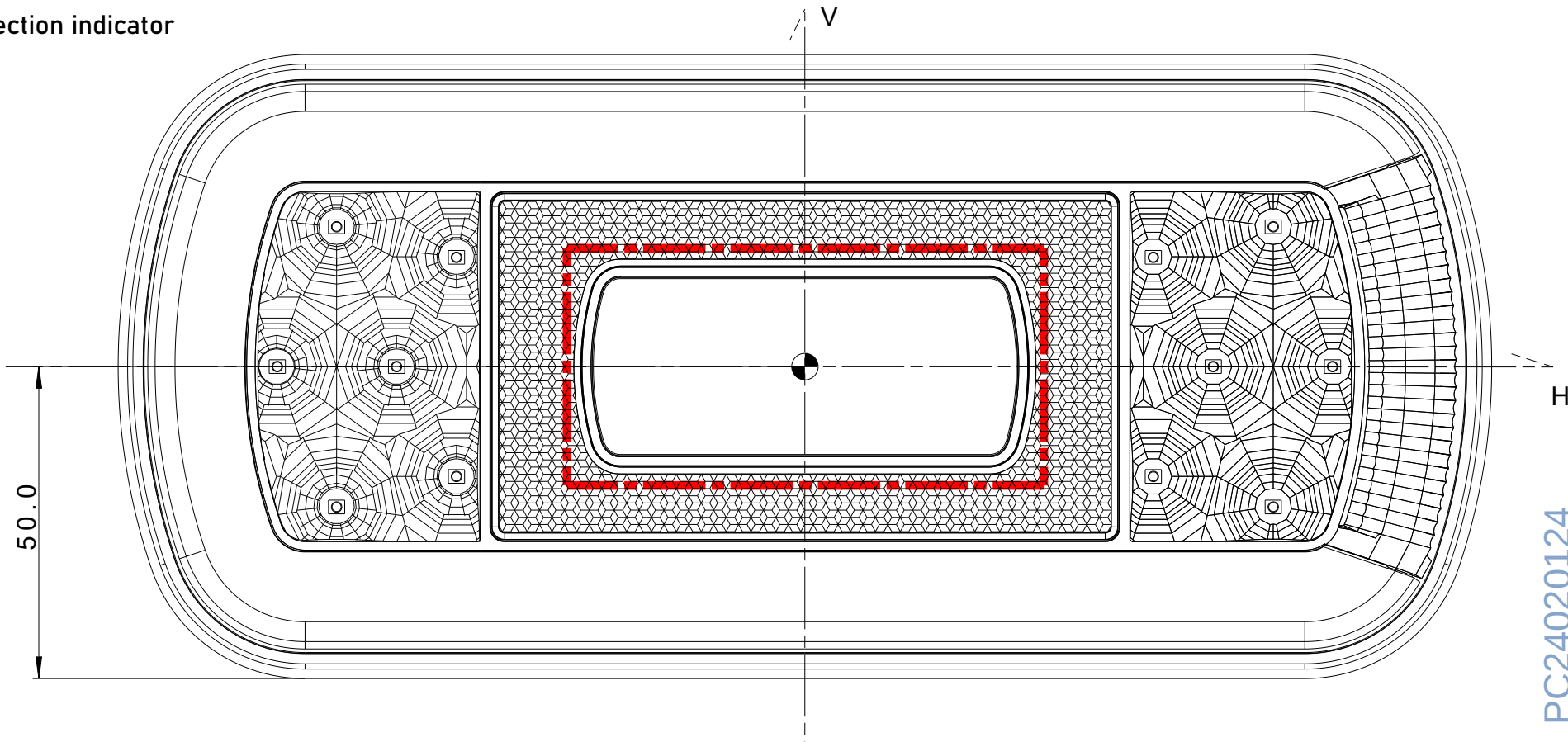
LED multifunction rear lamp

Light source:
- light source light 20 LED chip's red light color
- light source stop light 6 LED chip's red light color
- light source fog light 6 LED chip's red light color
- light source registration plate light 6 LED chip's white light color
- light source direction indicator light 4 LED chip's amber light color

Description:
lamp functions
This drawing is a part of the application for approval extension

- Material used in manufacturing :
- lampshade PC clear transparent
 - housing ABS black
 - red filter insert PMMA milky red
 - amber filter insert PMMA amber
 - reflex reflector PMMA red
 - potting compound epoxy resin
 - printed circuit board type FR4
 - reflector ABS white PVD coated

function: rear direction indicator



Manufacturer:
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Drawn by: Karol Jonoszak
Date: 05-01-2024
Sheet: 4 of 16

Type: FT-130 COF

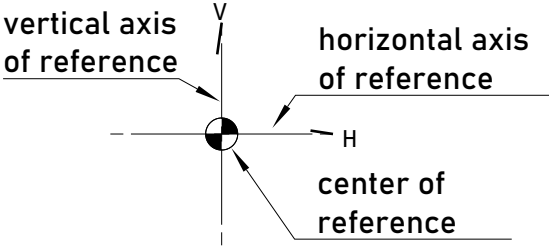
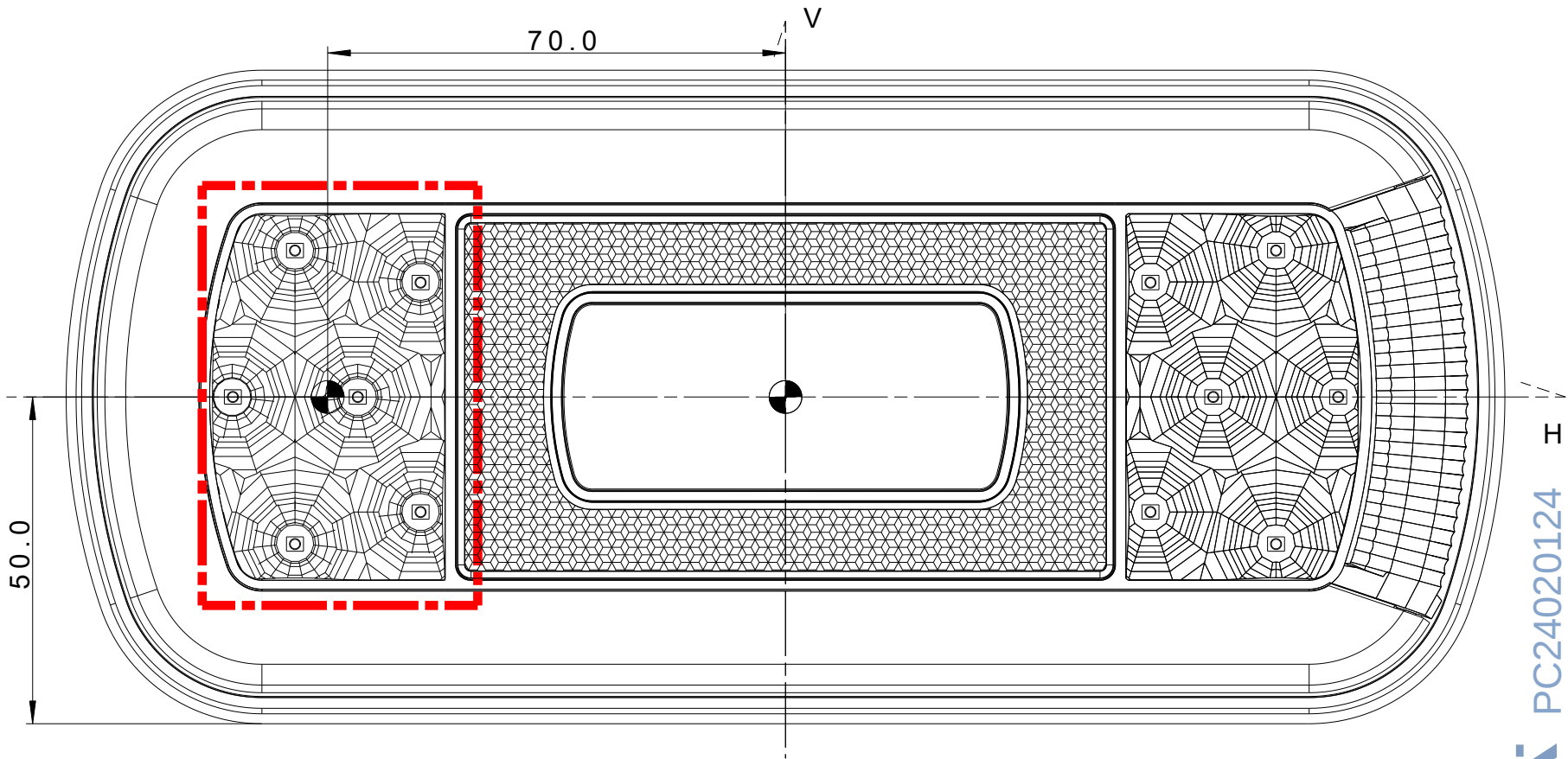
LED multifunction rear lamp

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Description:
lamp functions
This drawing is a part of the application for approval extension

Material used in manufacturing :
- lampshade PC clear transparent
- housing ABS black
- red filter insert PMMA milky red
- amber filter insert PMMA amber
- reflex reflector PMMA red
- potting compound epoxy resin
- printed circuit board type FR4
- reflector ABS white PVD coated

function: reversing light



Manufacturer:
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Drawn by: Karol Jonoszak
Date: 05-01-2024
Sheet: 5 of 16

Type:
FT-130 COF

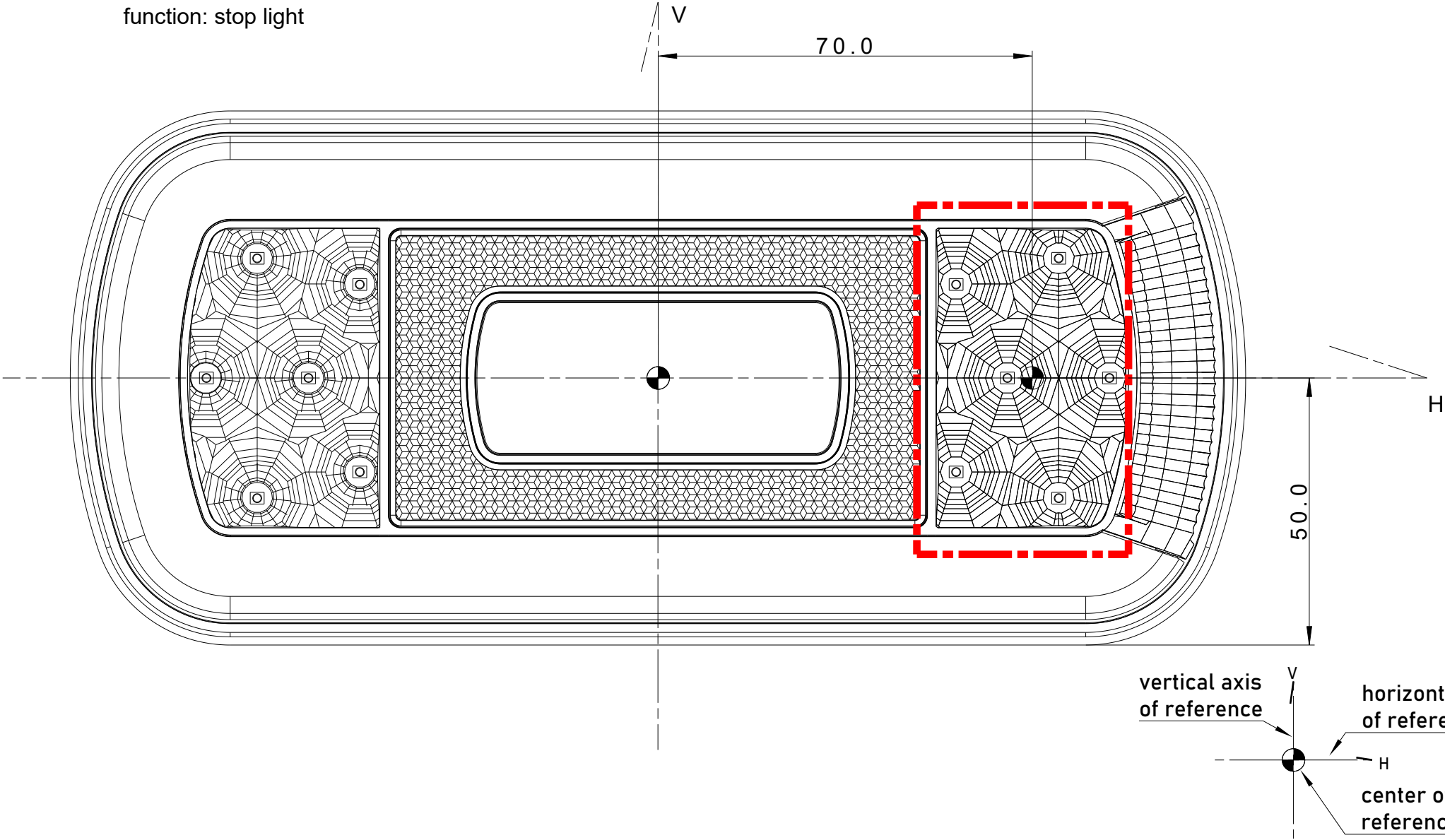
LED multifunction rear lamp

Light source:
- light source light 20 LED chip's red light color
- light source stop light 6 LED chip's red light color
- light source fog light 6 LED chip's red light color
- light source registration plate light 6 LED chip's white light color
- light source direction indicator light 4 LED chip's amber light color

Description:
lamp functions
This drawing is a part of the application for approval extension

Material used in manufacturing :
- lampshade PC clear transparent
- housing ABS black
- red filter insert PMMA milky red
- amber filter insert PMMA amber
- reflex reflector PMMA red
- potting compound epoxy resin
- printed circuit board type FR4
- reflector ABS white PVD coated

function: stop light



iDiAŚĆ PC24020124

Manufacturer:
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Drawn by: Karol Jonoszak
Date: 05-01-2024
Sheet: 6 of 16

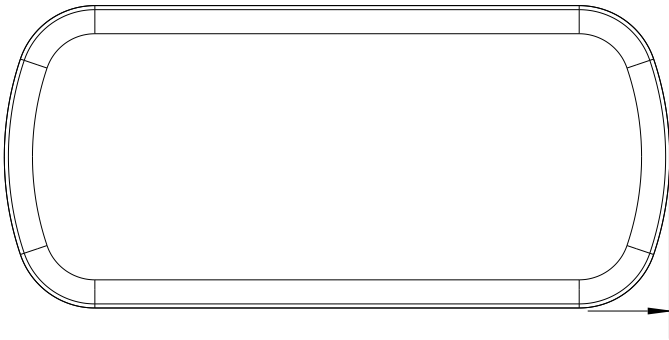
Type:
FT-130 COF

LED multifunction rear lamp

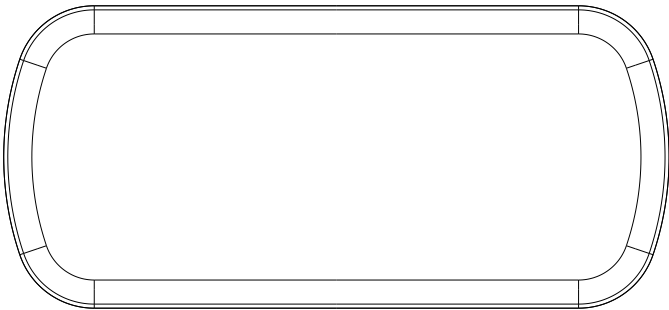
Light source:
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- light source registration plate light 6 LED chip's white light color
- light source direction indicator light 4 LED chip's amber light color

Description:
registration plate assembly
This drawing is a part of the application for approval extension

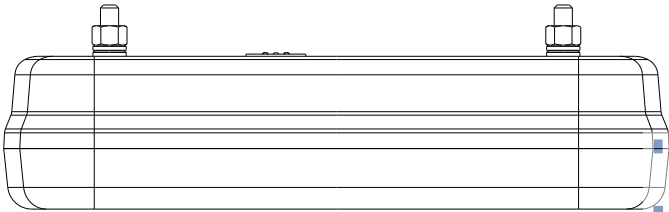
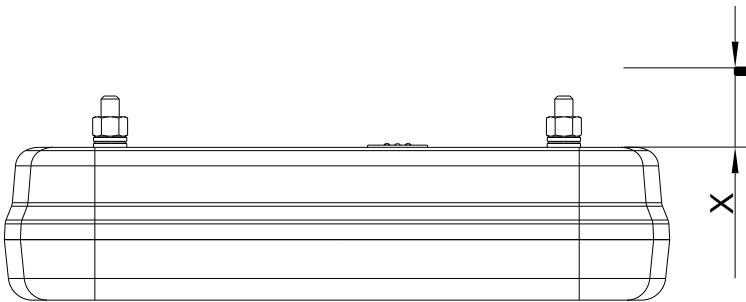
Material used in manufacturing :
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registration plate 520x120



assembly position for registration plate	
X	Y
0-20	30-200
mm	



Manufacturer:
FRISTOM Spółka z ograniczoną odpowiedzialnością Sp.K.
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Drawn by: Karol Jonoszak
Date: 05-01-2024
Sheet: 7 of 16

Type: FT-130 COF

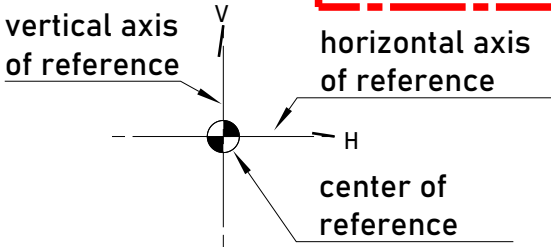
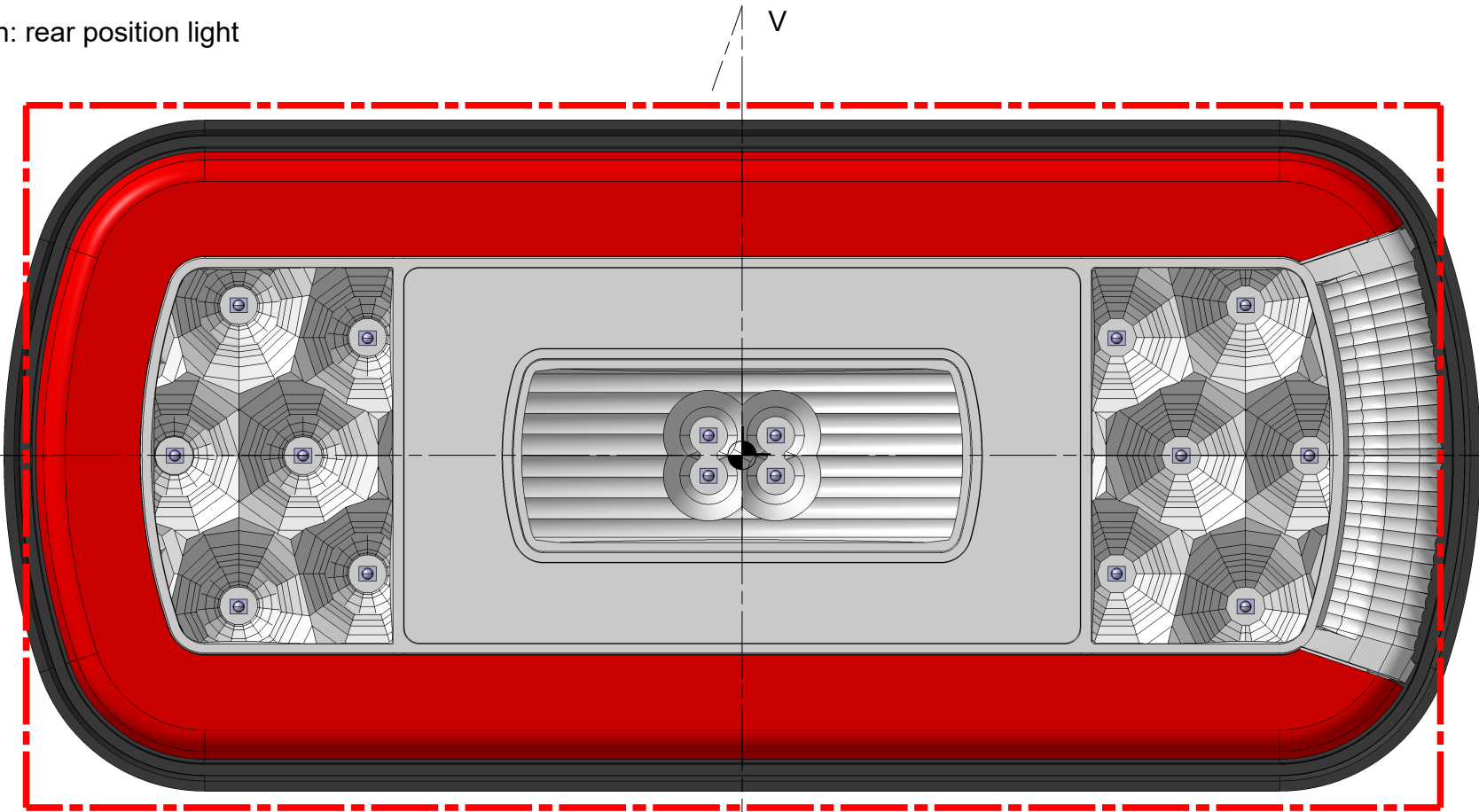
LED multifunction rear lamp

Light source:
- light source light 20 LED chip's red light color
- light source stop light 6 LED chip's red light color
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Description:
lamp functions
This drawing is a part of the application for approval extension

Material used in manufacturing :
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- reflex reflector PMMA red
- potting compound epoxy resin
- printed circuit board type FR4
- reflector ABS white PVD coated

function: rear position light



Manufacturer:
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Drawn by: Karol Jonoszak
Date: 05-01-2024
Sheet: 8 of 16

Type: FT-130 COF

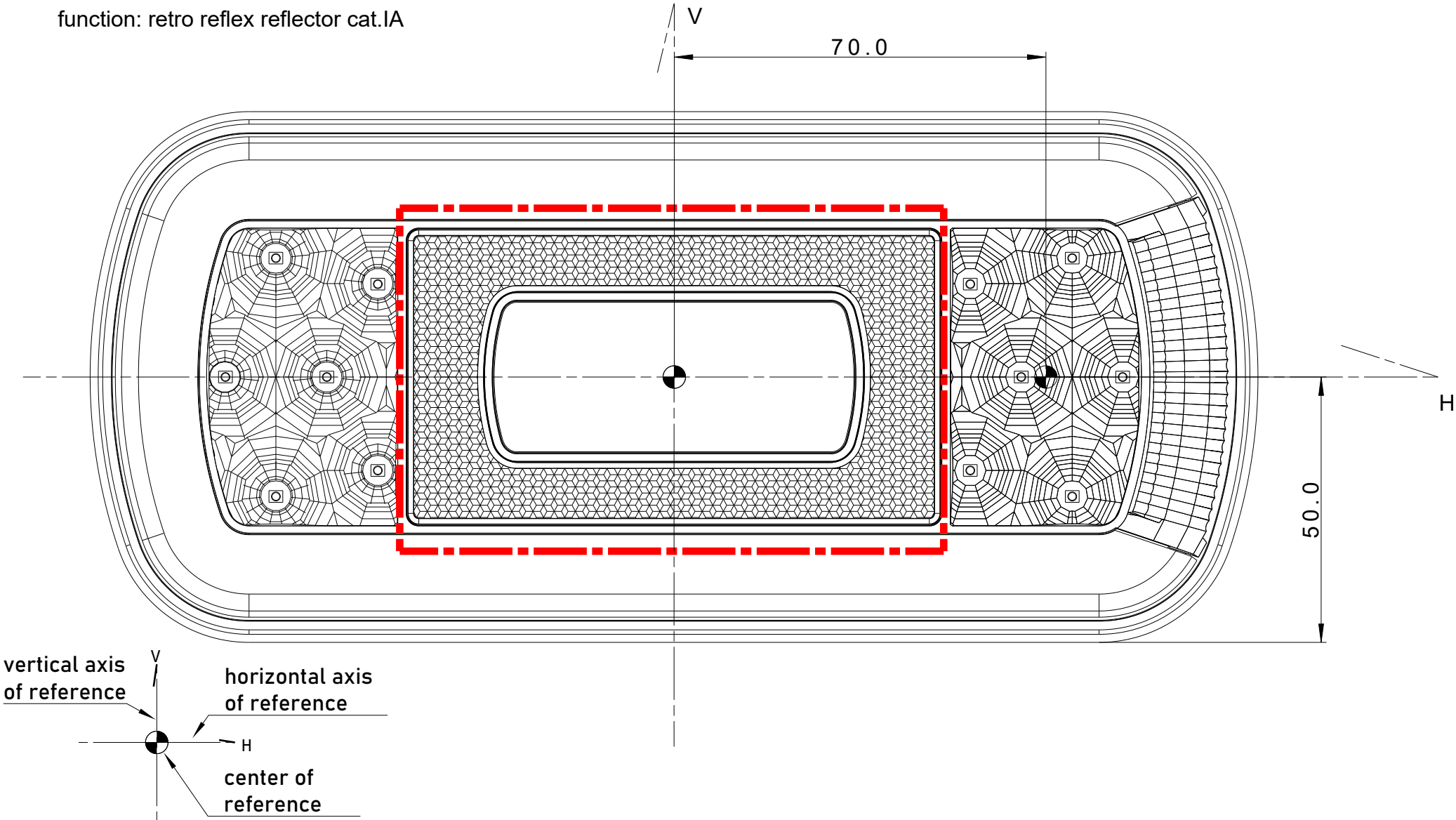
LED multifunction rear lamp

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Description:
lamp functions
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- printed circuit board type FR4
- reflector ABS white PVD coated

function: retro reflex reflector cat.IA



Manufacturer:
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Drawn by:	Date:	Sheet:
Karol Jonoszak	05-01-2024	9 of 16

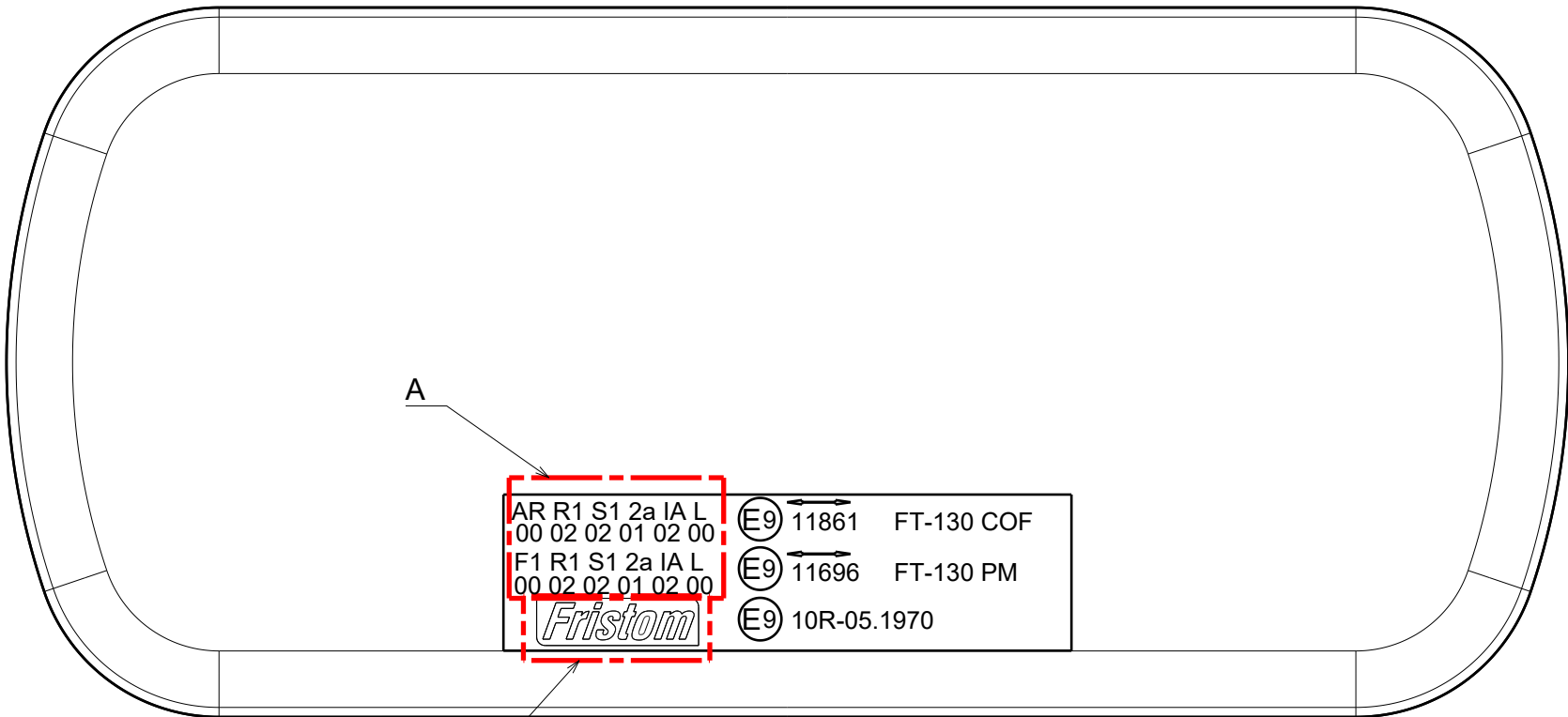
Type: FT-130 COF
LED multifunction rear lamp

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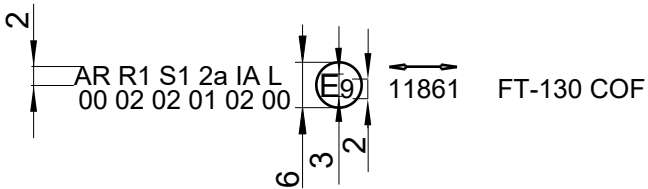
Description:
approval markings
This drawing is a part of the application for approval extension

Material used in manufacturing :

- lampshade PC clear transparent
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- red filter insert PMMA milky red
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- reflex reflector PMMA red
- potting compound epoxy resin
- printed circuit board type FR4
- reflector ABS white PVD coated



approval marking dimensions



A	approval numbers
B	trademark

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: 05-01-2024
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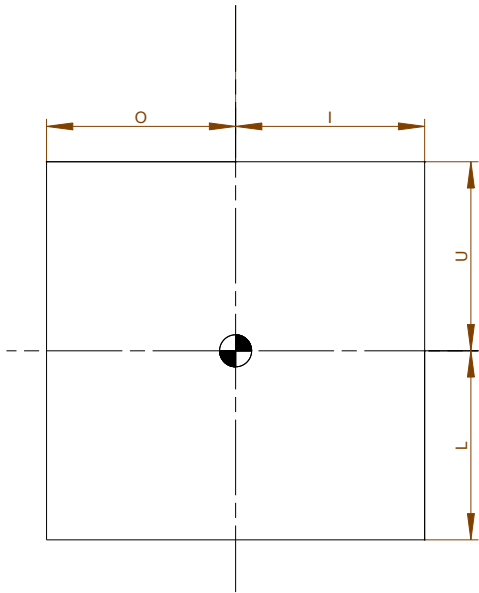
Type:
FT-130 COF

LED multifunction rear lamp

Light source:
- light source light 20 LED chip's red light color
- light source stop light 6 LED chip's red light color
- light source fog light 6 LED chip's red light color
- light source registration plate light 6 LED chip's white light color
- light source direction indicator light 4 LED chip's amber light color

Description:
illumination surface
This drawing is a part of the application for approval extension

Material used in manufacturing :
- lampshade PC clear transparent
- housing ABS black
- red filter insert PMMA milky red
- amber filter insert PMMA amber
- reflex reflector PMMA red
- potting compound epoxy resin
- printed circuit board type FR4
- reflector ABS white PVD coated



surface dimensions				
function	U (upper limit) [mm]	L (lower limit) [mm]	O (outer limit) [mm]	I (inner limit) [mm]
rear direction indicator	14	14	34	34
reversing light	28	28	18	18
rear fog light	28	28	18	18
stop light	28	28	18	18
rear position light	41	41	98	98

Determining the lower , upper and lateral limits of the illumination surface of the lamp device.
According to European Directive 91/663/EEC , Annex I "Installation of lighting and light-signalling devices" clause 1.9.2.
According to ECE regulation 48/06 "Installation of light and light-signalling devices" clause 2.10.3.2.

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			LED multifunction rear lamp			
Drawn by: Karol Jonoszak			Date: 05-01-2024	Sheet: 11 of 16	Light source: - light source light 20 LED chip's red light color - light source stop light 6 LED chip's red light color - light source fog light 6 LED chip's red light color - light source registration plate light 6 LED chip's white light color - light source direction indicator light 4 LED chip's amber light color	Description: tradenames This drawing is a part of the application for approval

Indeks	Description
FT-130 COF LED	6-functional LED rear lamp with the position, reversing, STOP, an indicator and a number plate lights with reflector, 1 m cable.
FT-130 COF LED Mxx	6-functional LED rear lamp with the position, reversing, STOP, an indicator and a number plate lights with reflector, Mxx cable.
FT-130 COF LED BAJONET	6-functional LED rear lamp with the position, reversing, STOP, an indicator and a number plate lights and reflector, 5PIN Bayonet connector.
FT-130 NT COF LED	5-functional LED rear lamp with the position, reversing, STOP, an indicator lights without a number plate light with reflector, 1 m cable.
FT-130 NT COF LED Mxx	5-functional LED rear lamp with the position, reversing, STOP, an indicator lights without a number plate light with reflector, Mxx cable.
FT-130 NT COF LED BAJONET	5-functional LED rear lamp with the position, reversing, STOP, an indicator lights without a number plate lights with reflector, 5PIN Bayonet connector.

* where "x" is a digit between 0-9

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Type:
FT-130 COF
LED multifunction rear lamp

Light source:
- light source light 20 LED chip's red light color
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- light source fog light 6 LED chip's red light color
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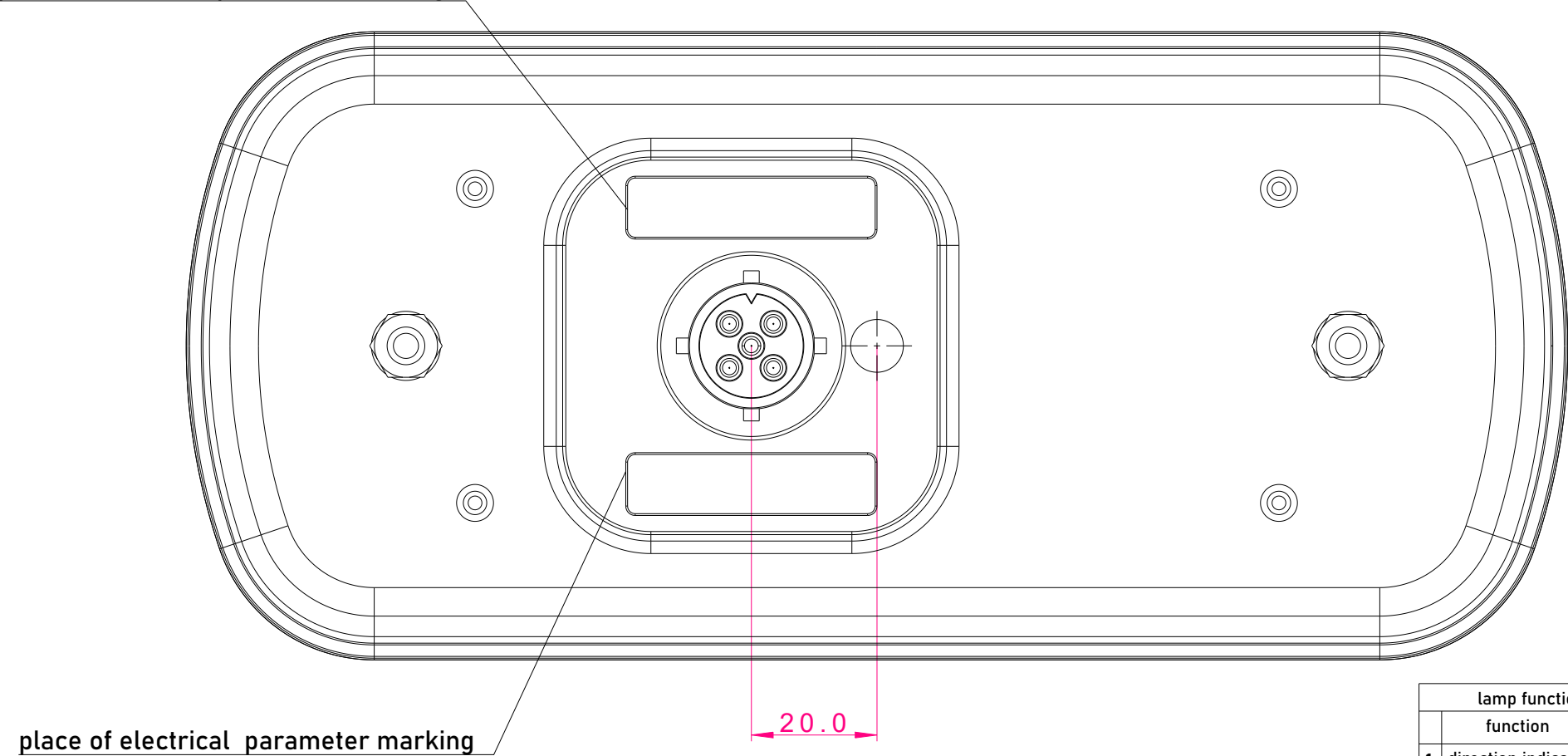
Description:
bajonet plug lamp version
electric parameters
This drawing is a part of the application for approval extension

Material used in manufacturing :

- lampshade PC clear transparent
- housing ABS black
- red filter insert PMMA milky red
- amber filter insert PMMA amber
- reflex reflector PMMA red
- potting compound epoxy resin
- printed circuit board type FR4
- reflector ABS white PVD coated

place of electrical parameter marking

Right lamp



place of electrical parameter marking

lamp function and electric power		
	function	electrical power
1	direction indicator	12V/24V - 1,5W/3W
2	stop light	12V/24V - 1W/2W
3	rear position light	12V/24V - 3W/5W
4	reversing light	12V/24V - 3,5W/3,5W
5	registration plate light	12V/24V - 3W/5W

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Type:
FT-130 COF

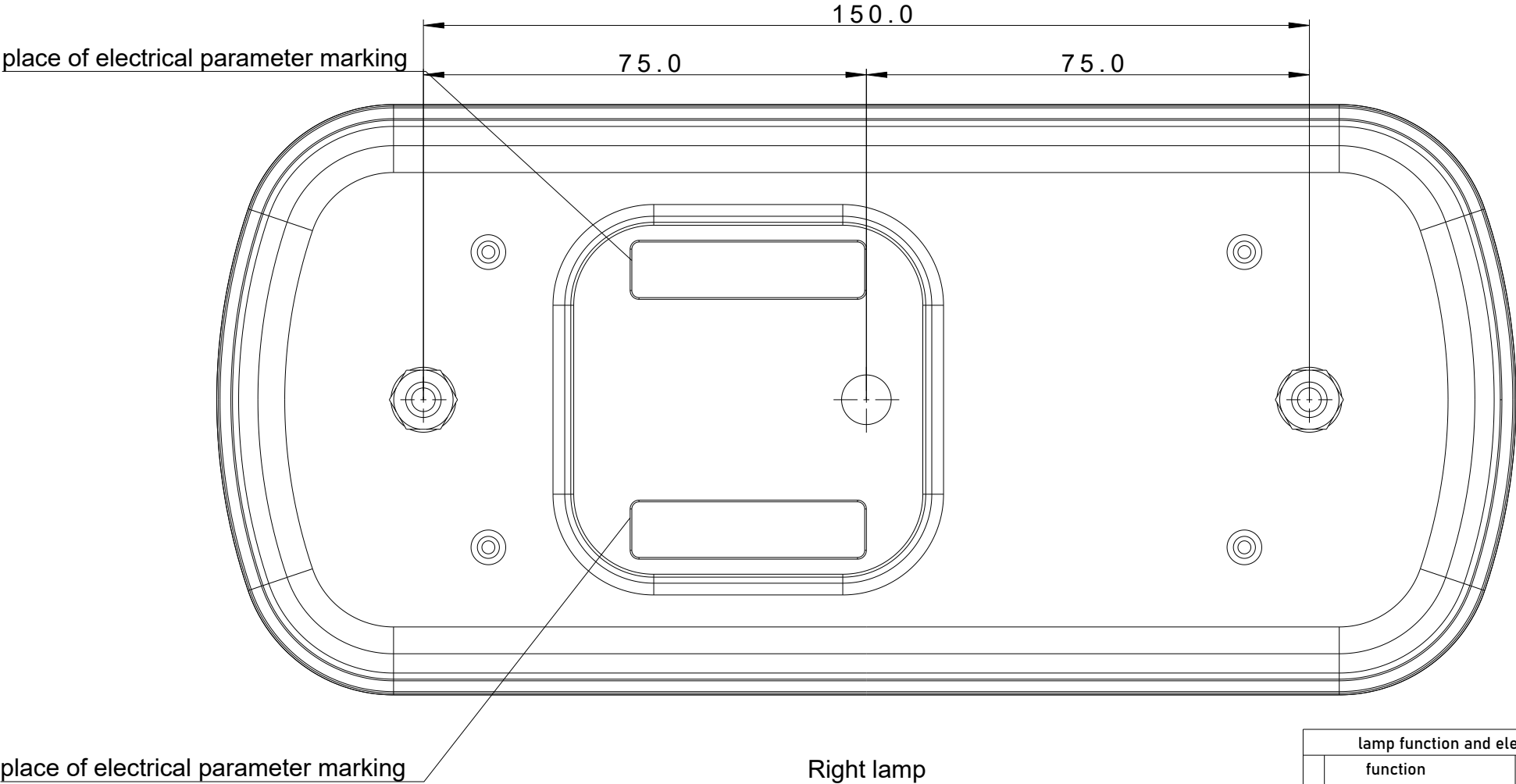
LED multifunction rear lamp

Light source:
- light source light 20 LED chip's red light color
- light source stop light 6 LED chip's red light color
- light source fog light 6 LED chip's red light color
- light source registration plate light 6 LED chip's white light color
- light source direction indicator light 4 LED chip's amber light color

Description:
cable version lamp
electric parameters
This drawing is a part of the application for approval extension

Material used in manufacturing :

- lampshade PC clear transparent
- housing ABS black
- red filter insert PMMA milky red
- amber filter insert PMMA amber
- reflex reflector PMMA red
- potting compound epoxy resin
- printed circuit board type FR4
- reflector ABS white PVD coated



Right lamp

lamp function and electric power		
	function	electrical power
1	direction indicator	12V/24V - 1,5W/3W
2	stop light	12V/24V - 1W/2W
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5	registration plate light	12V/24V - 3W/5W

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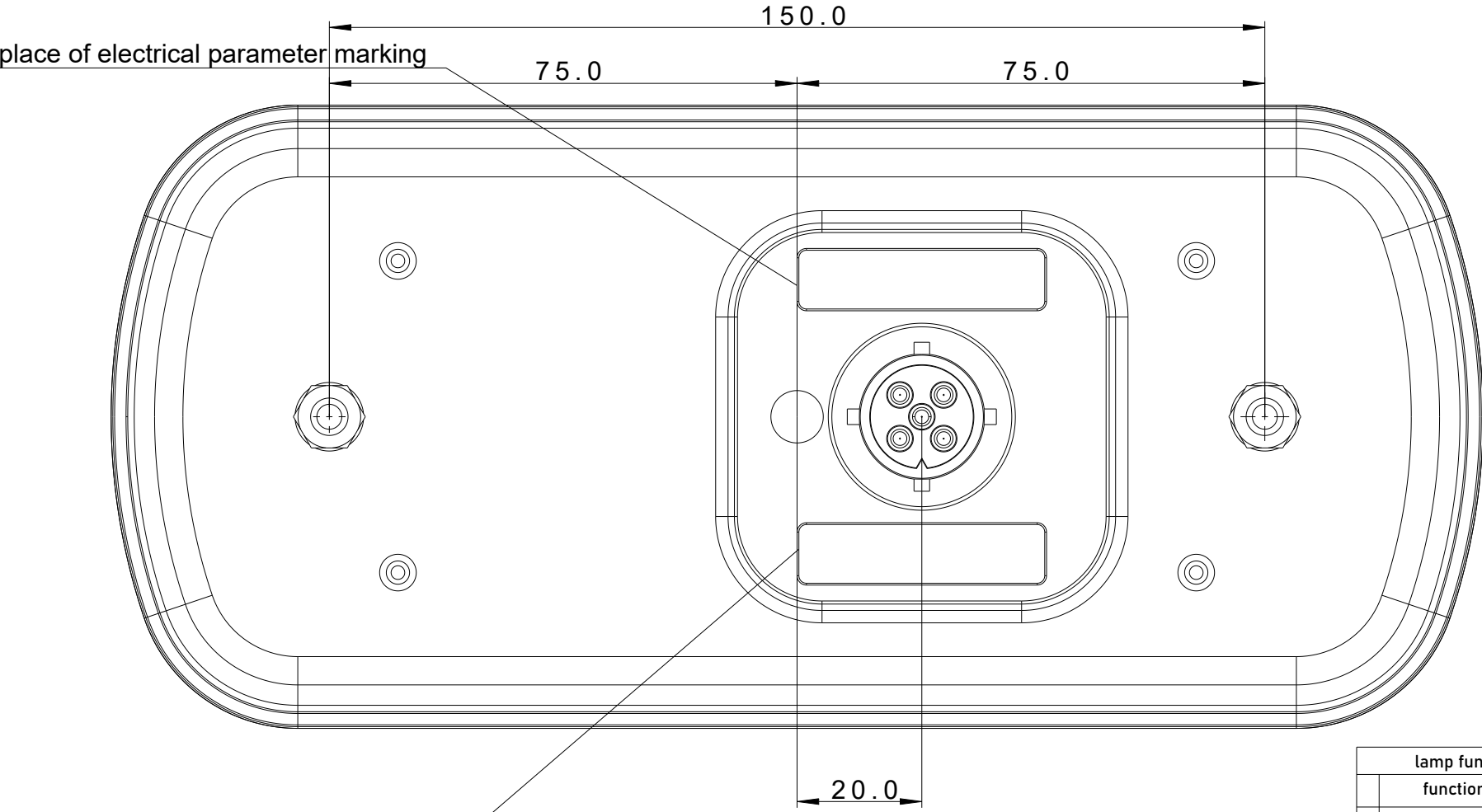
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Type: FT-130 COF
LED multifunction rear lamp

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Description:
bajonet plug version lamp
electric parameters
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Material used in manufacturing :
- lampshade PC clear transparent
- housing ABS black
- red filter insert PMMA milky red
- amber filter insert PMMA amber
- reflex reflector PMMA red
- potting compound epoxy resin
- printed circuit board type FR4
- reflector ABS white PVD coated



Left lamp

lamp function and electric power		
	function	electrical power
1	direction indicator	12V/24V - 1,5W/3W
2	stop light	12V/24V - 1W/2W
3	rear position light	12V/24V - 3W/5W
4	reversing light	12V/24V - 3,5W/3,5W
5	registration plate light	12V/24V - 3W/5W

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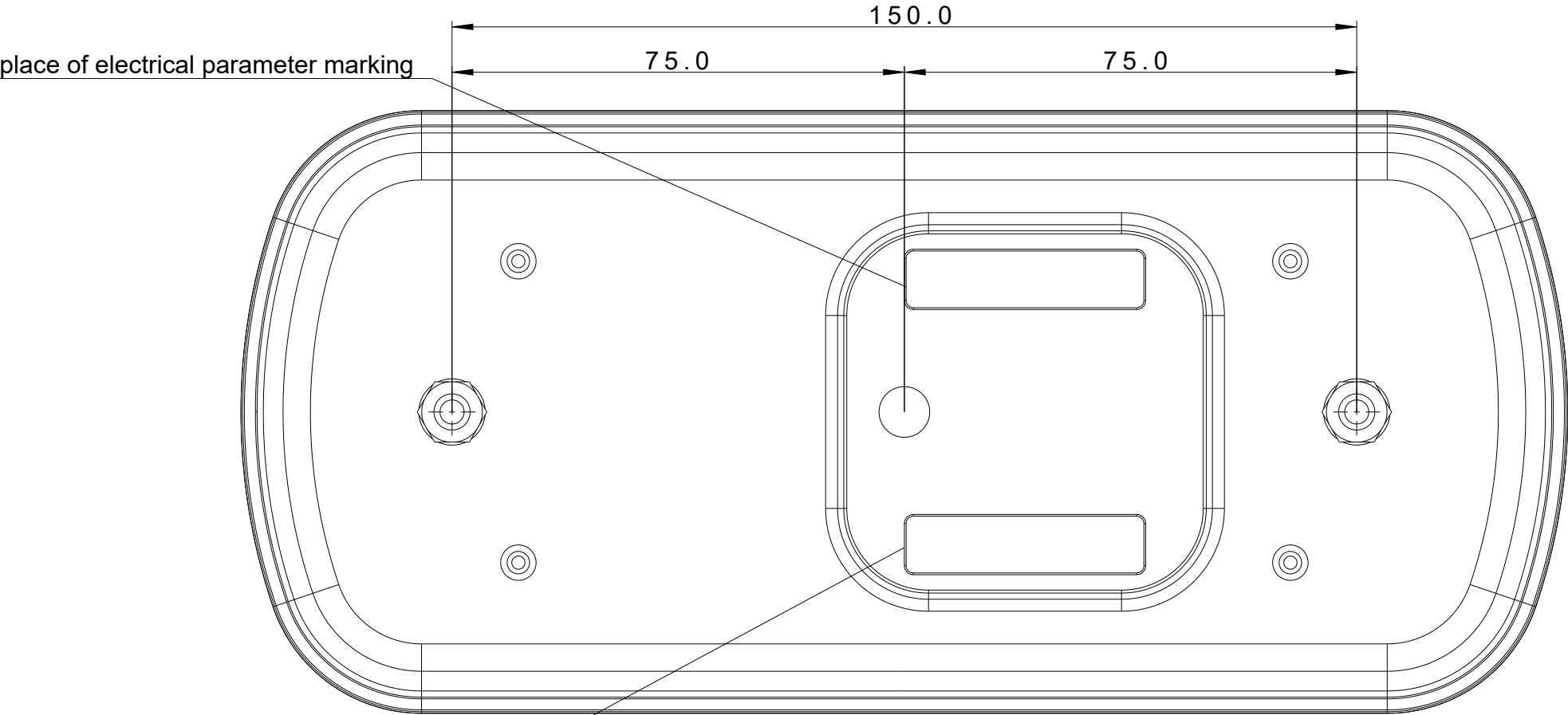
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- light source direction indicator light 4 LED chip's amber light color

Description:
cable version lamp
electric parameters
This drawing is a part of the application for approval extension

- Material used in manufacturing :**
- lampshade PC clear transparent
 - housing ABS black
 - red filter insert PMMA milky red
 - amber filter insert PMMA amber
 - reflex reflector PMMA red
 - potting compound epoxy resin
 - printed circuit board type FR4
 - reflector ABS white PVD coated



place of electrical parameter marking

Left lamp

lamp function and electric power		
	function	electrical power
1	direction indicator	12V/24V - 1,5W/3W
2	stop light	12V/24V - 1W/2W
3	rear position light	12V/24V - 3W/5W
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- light source registration plate light 6 LED chip's white light color
- light source direction indicator light 4 LED chip's amber light color

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

Material used in manufacturing :
- lampshade PC clear transparent
- housing ABS black
- red filter insert PMMA milky red
- amber filter insert PMMA amber
- reflex reflector PMMA red
- potting compound epoxy resin
- printed circuit board type FR4
- white reflector PMMA white

