

Firmado el 13/03/2024 10:51:27 : 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.



MINISTERIO
DE INDUSTRIA
Y TURISMO

SECRETARÍA DE ESTADO DE
INDUSTRIA

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

E9*4R00/19*11861*02

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COMUNICACIÓN / COMMUNICATION:

Concerniente a ⁽¹⁾: ~~LA CONCESIÓN DE HOMOLOGACIÓN~~
~~LA EXTENSIÓN DE HOMOLOGACIÓN~~
~~LA DENEGACIÓN DE HOMOLOGACIÓN~~
~~LA RETIRADA DE HOMOLOGACIÓN~~
~~EL CESE DEFINITIVO DE PRODUCCIÓN~~

Concerning ⁽¹⁾: ~~APPROVAL GRANTED~~
~~APPROVAL EXTENDED~~
~~APPROVAL REFUSED~~
~~APPROVAL WITHDRAWN~~
~~PRODUCTION DEFINITELY DISCONTINUED~~

de un tipo de dispositivo de alumbrado de placa de matrícula trasera de los vehículos a motor (excepto las motocicletas) y sus remolques en aplicación del Reglamento N° 4.
of a type of device for the illumination of rear registration plates of motor vehicles (except for motorcycles) and their trailers pursuant to Regulation No. 4.

N° de homologación / Approval No.: E9*4R00/19*11861*02

Extensión N° / Extension No.: 02

1. Marca de fábrica o comercial del dispositivo / Trade name or mark of the device: Fristom
2. Designación del tipo de dispositivo dado por el fabricante / Manufacturer's name for the type of device: 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. En su caso, nombre y dirección del representante del fabricante / If applicable, name and address of 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 test: IDIADA
7. Fecha del informe emitido por dicho servicio / Date of report issued by that service: 06/03/2024
8. Número del informe emitido por dicho servicio / Number of report issued by that service: PC15020198, PC16090084, **PC24020128**

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



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MEDIANA EMPRESA

E9*4R00/19*11861*02

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9. Breve descripción / *Concise description:*

- Dispositivo destinado a la iluminación / *Device for illuminating:*
Categoría / *Category* ~~1a~~ / ~~1b~~ / ~~1e~~ / ~~2a~~ / ~~2b~~ ⁽¹⁾

de un emplazamiento alto / *a tall plate* ⁽¹⁾
de un emplazamiento largo / *a wide plate* ⁽¹⁾
de un emplazamiento para tractores agrícolas o forestales / *a plate for agricultural or forestry tractors* ⁽¹⁾
- Número y categoría(s) de la(s) fuente(s) luminosa(s) / *Number and category(ies) of light source(s)*: 6 LED chip's White color
- Módulo de fuente de luz / *Light source module*: ~~si~~ / *yes* - no / *no* ⁽¹⁾
- Código de identificación específico del módulo de fuente de luz / *Light source module specific identification code*: ---
- Condiciones geométricas de instalación (posiciones e inclinaciones del dispositivo en relación al espacio ocupado por la placa de matrícula y/o diferentes inclinaciones de este espacio) / *Geometrical conditions of installation (position(s) and inclination(s) of the device in relation to the space to be occupied by the registration plate and/or different inclinations of this space)*: ---

10. Posición de la marca de homologación / *Position of the approval mark*: Ver documentación suministrada por el fabricante / *See documentation supplied by the manufacturer.*

11. Motivos de la extensión (en su caso) / *Reason(s) of 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/refused/extended/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

16. Se adjunta la lista de apartados que constituyen el expediente de homologación depositado en el servicio administrativo que ha concedido la homologación y que pueden ser obtenidos a petición. / *The list of documents deposited with the Administrative Service which has granted approval is annexed to this communication and may be obtained on request.*

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

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



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

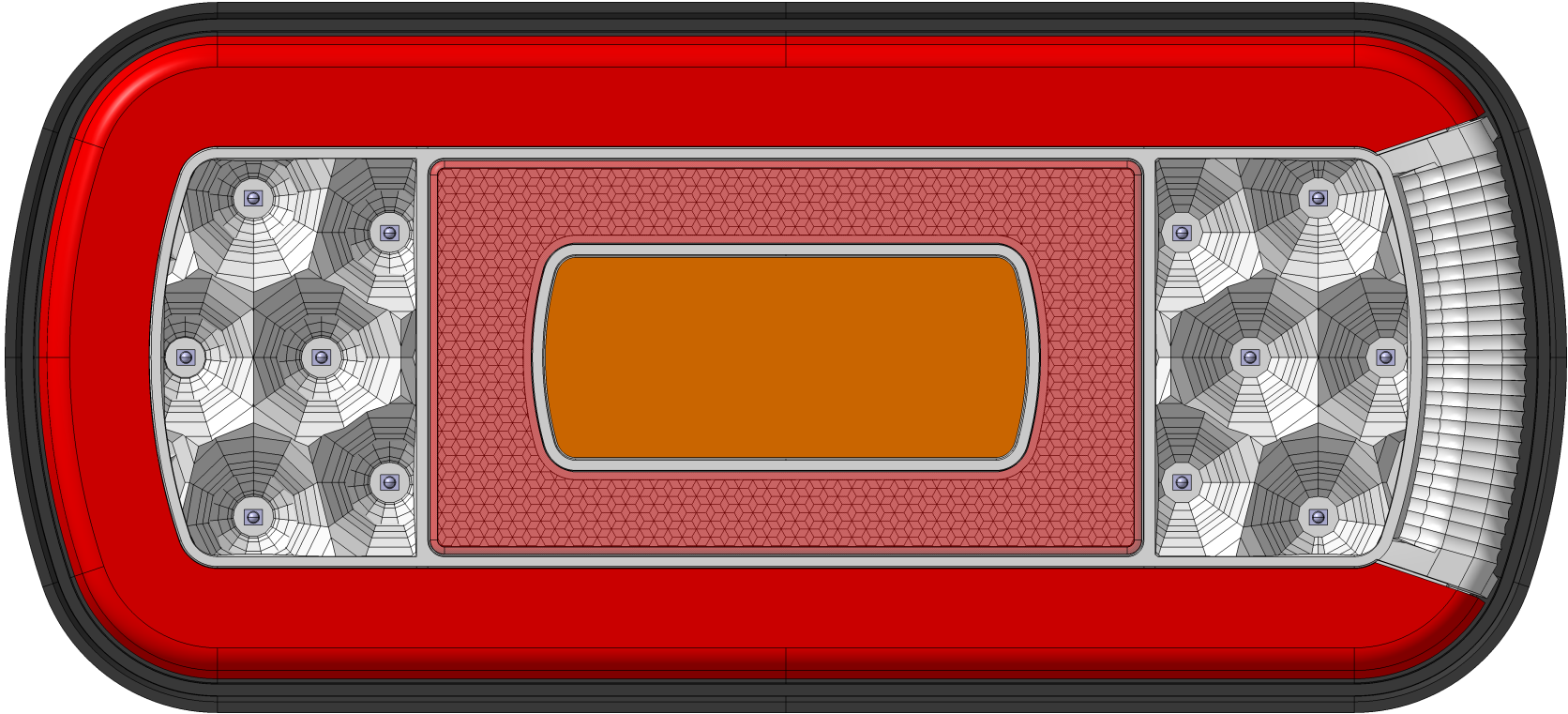
4. REASON OF THE APPROVAL EXTENSION:

- 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  Drawn by: Date: Sheet: Karol Jonoszak 05-01-2024 1 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: front lamp view general view 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
--	--	--	--	--	---

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

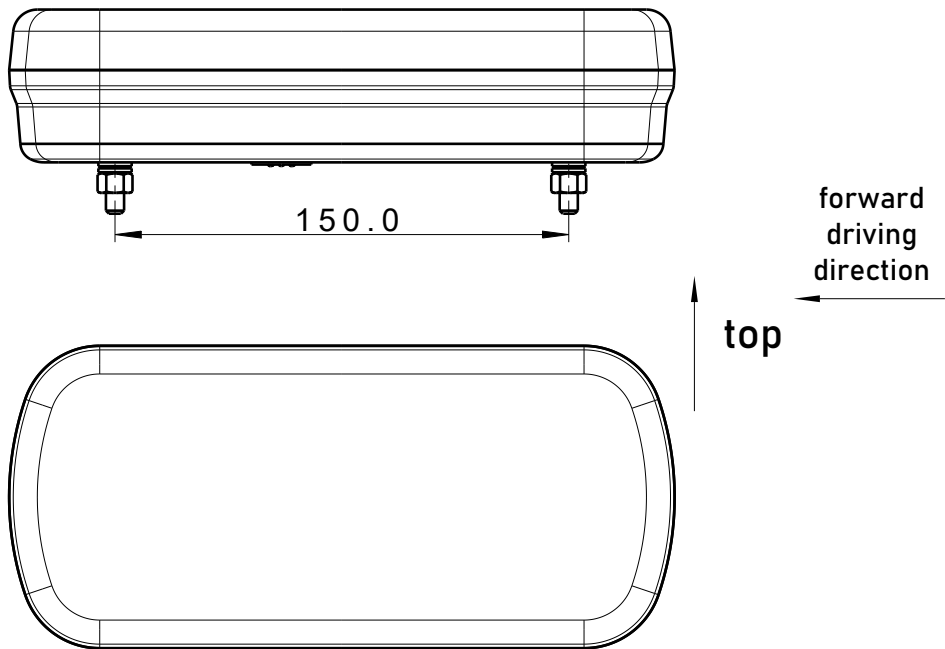
Light source:
- light source light 20 LED chip's red light color
- light source stop light 6 LED chip's red light color
- light source fog light 6 LED chip's red light color
- light source registration plate light 6 LED chip's white light color
- light source direction indicator light 4 LED chip's amber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

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

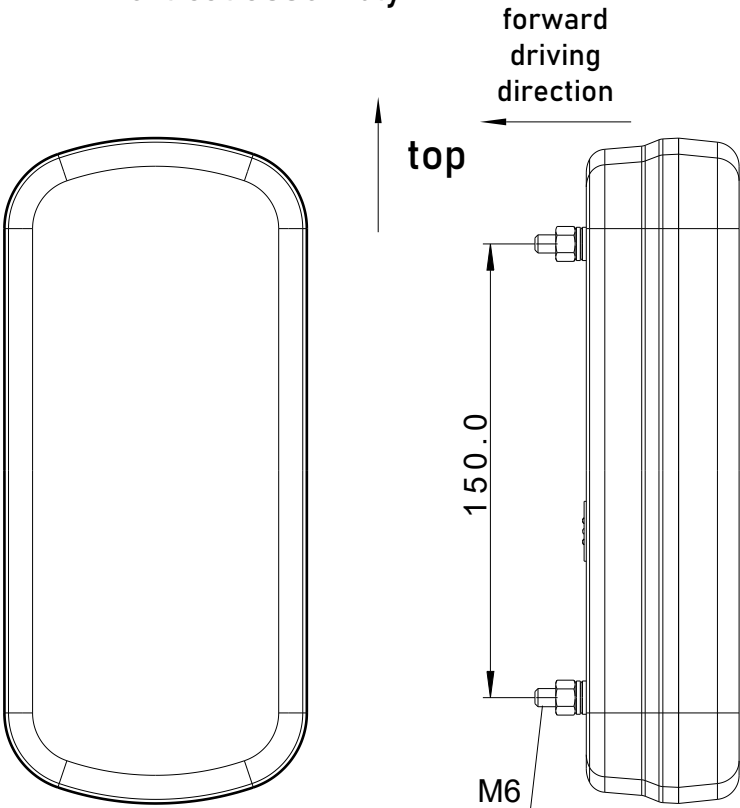
Material used in manufacturing

- 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

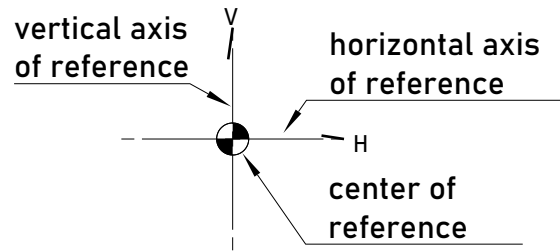
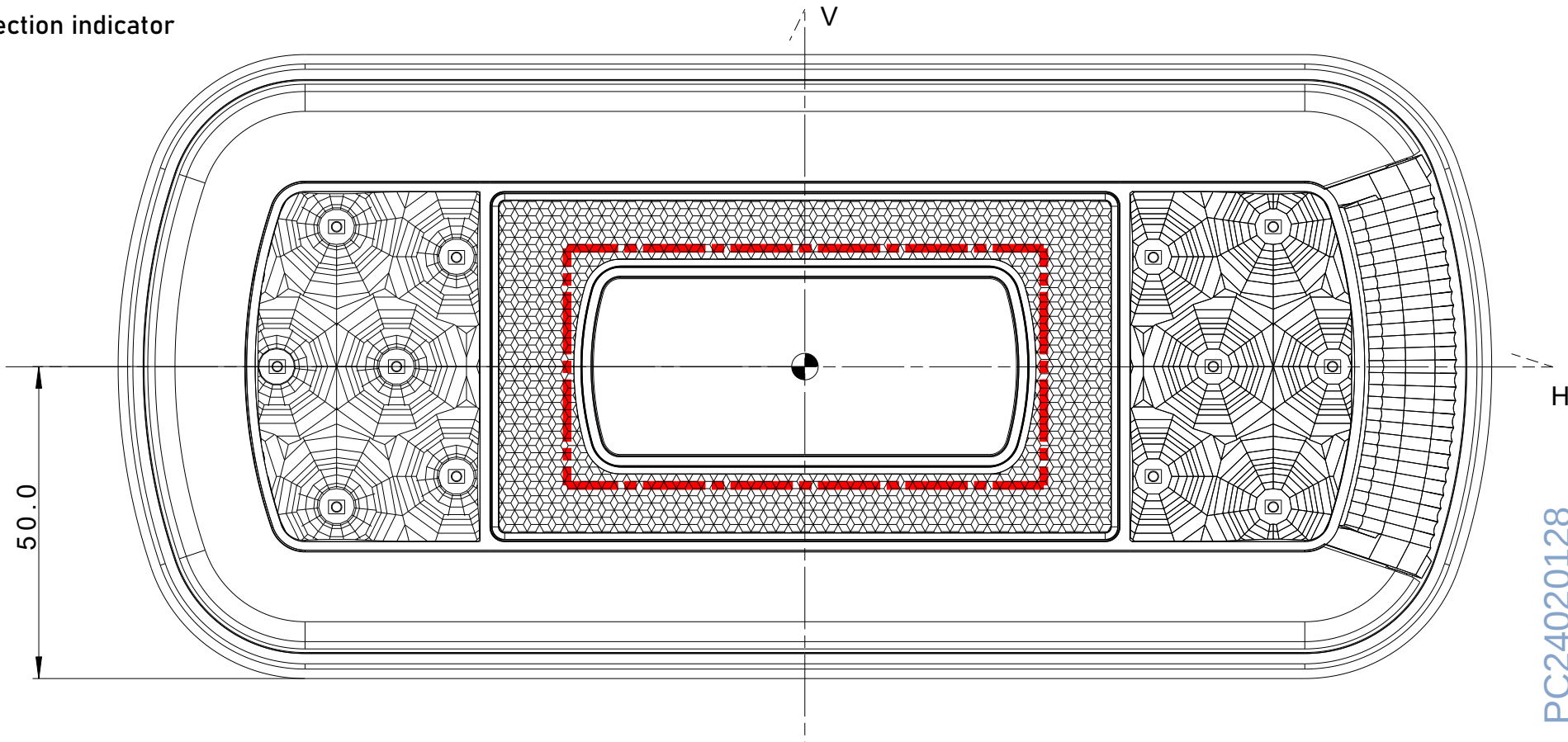
LED multifunction rear lamp

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



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

Type: FT-130 COF

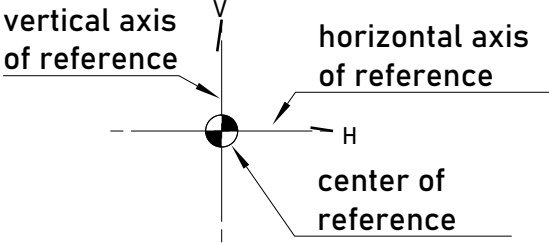
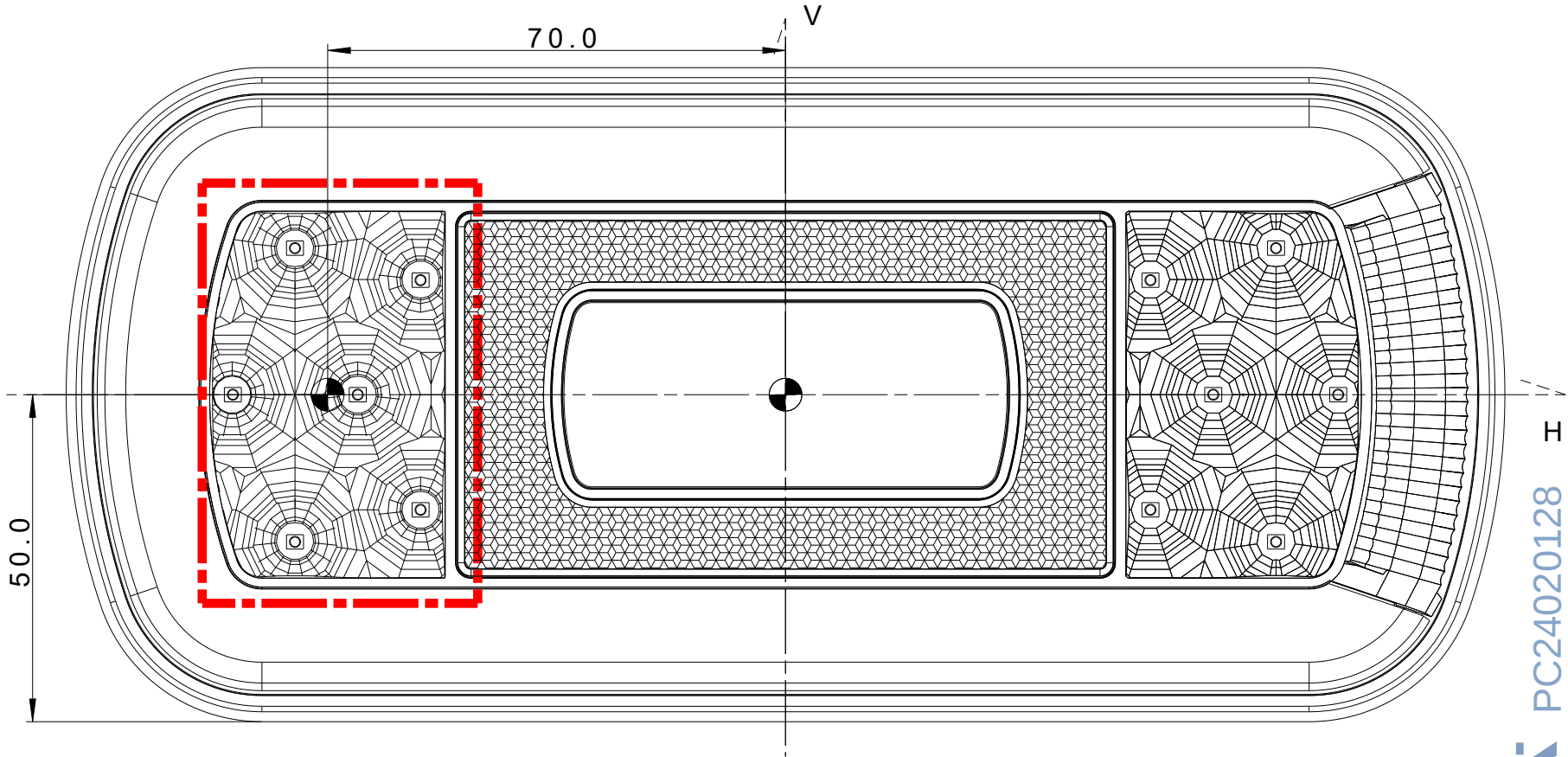
LED multifunction rear lamp

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: reversing light



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

Type:
FT-130 COF

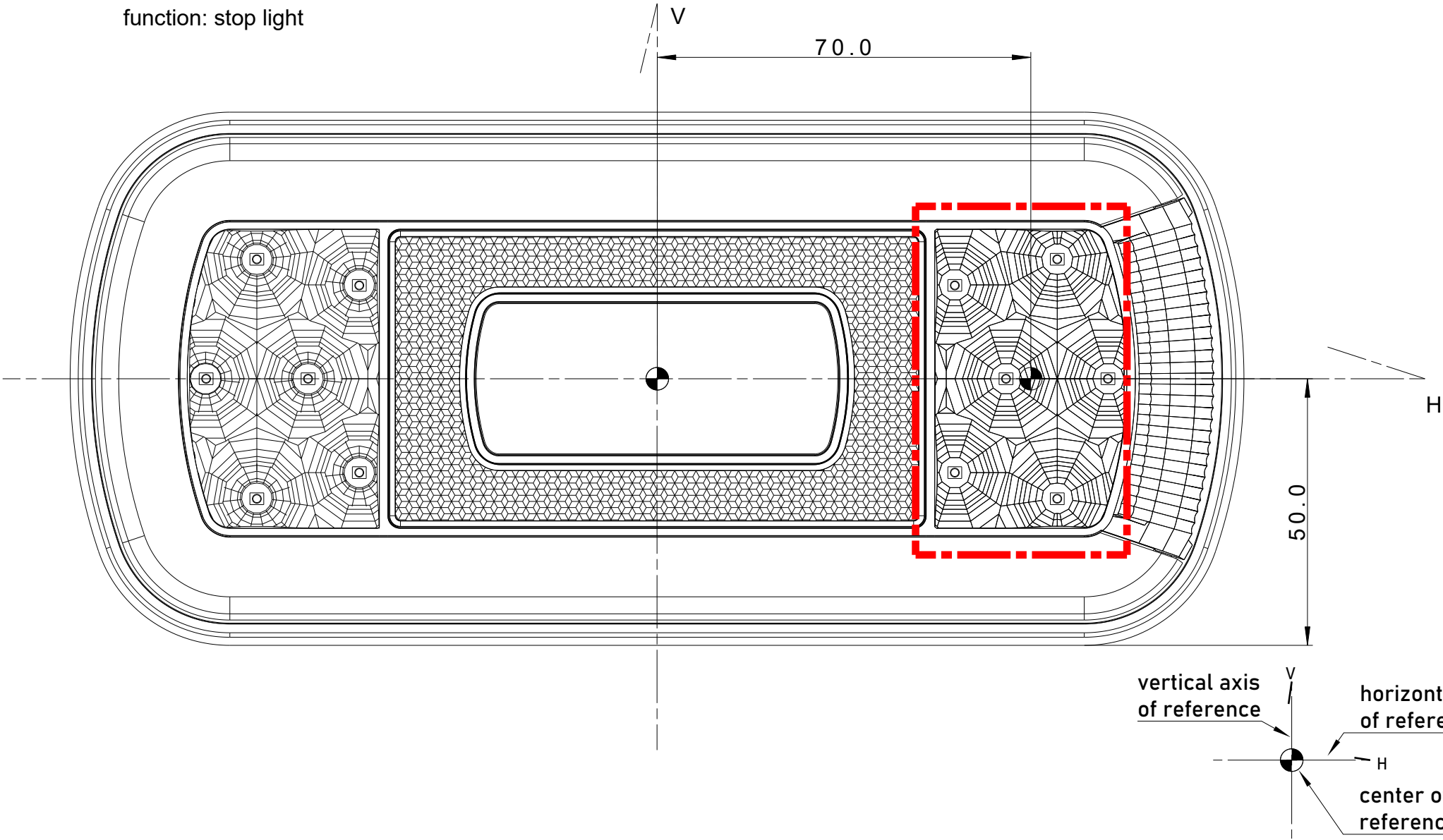
LED multifunction rear lamp

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



Manufacturer:
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Drawn by: Karol Jonoszak	Date: 05-01-2024	Sheet: 6 of 16
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Type:
FT-130 COF

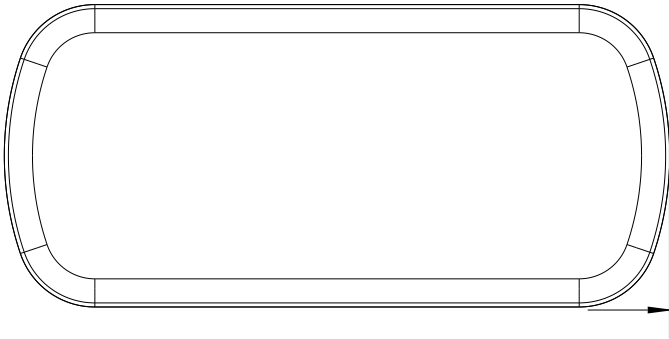
LED multifunction rear lamp

Light source:
- light source light 20 LED chip's red light color
- light source stop light 6 LED chip's red light color
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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

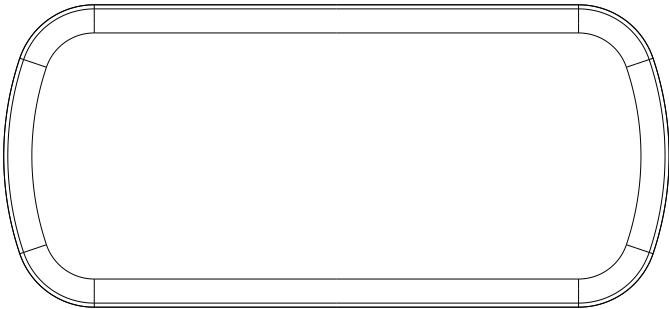
Description:
registration plate assembly
This drawing is a part of the application for approval extension

Material used in manufacturing :

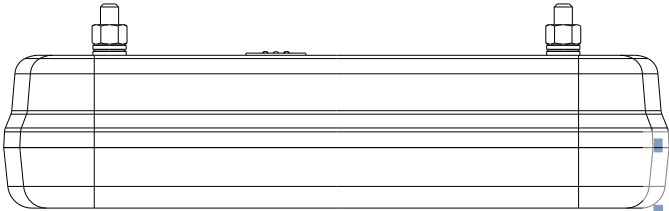
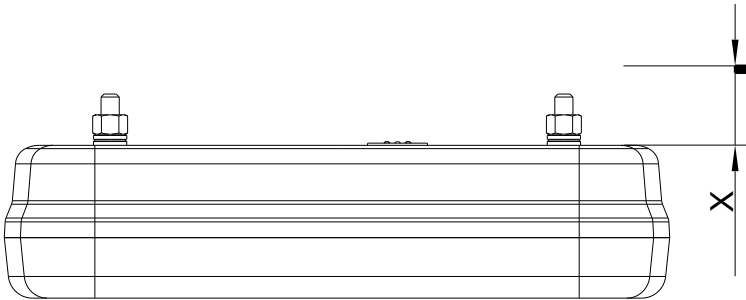
- lampshade PC clear transparent
- housing ABS black
- red filter insert PMMA milky red
- amber filter insert PMMA amber
- reflex reflector PMMA red
- potting compound epoxy resin
- printed circuit board type FR4
- reflector ABS white PVD coated



registration plate 520x120



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



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Drawn by:	Date:	Sheet:
Karol Jonoszak	05-01-2024	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
- light source fog light 6 LED chip's red light color
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- light source direction indicator light 4 LED chip's amber light color

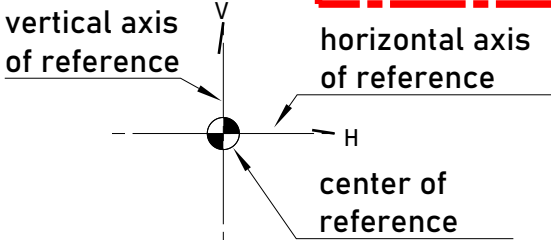
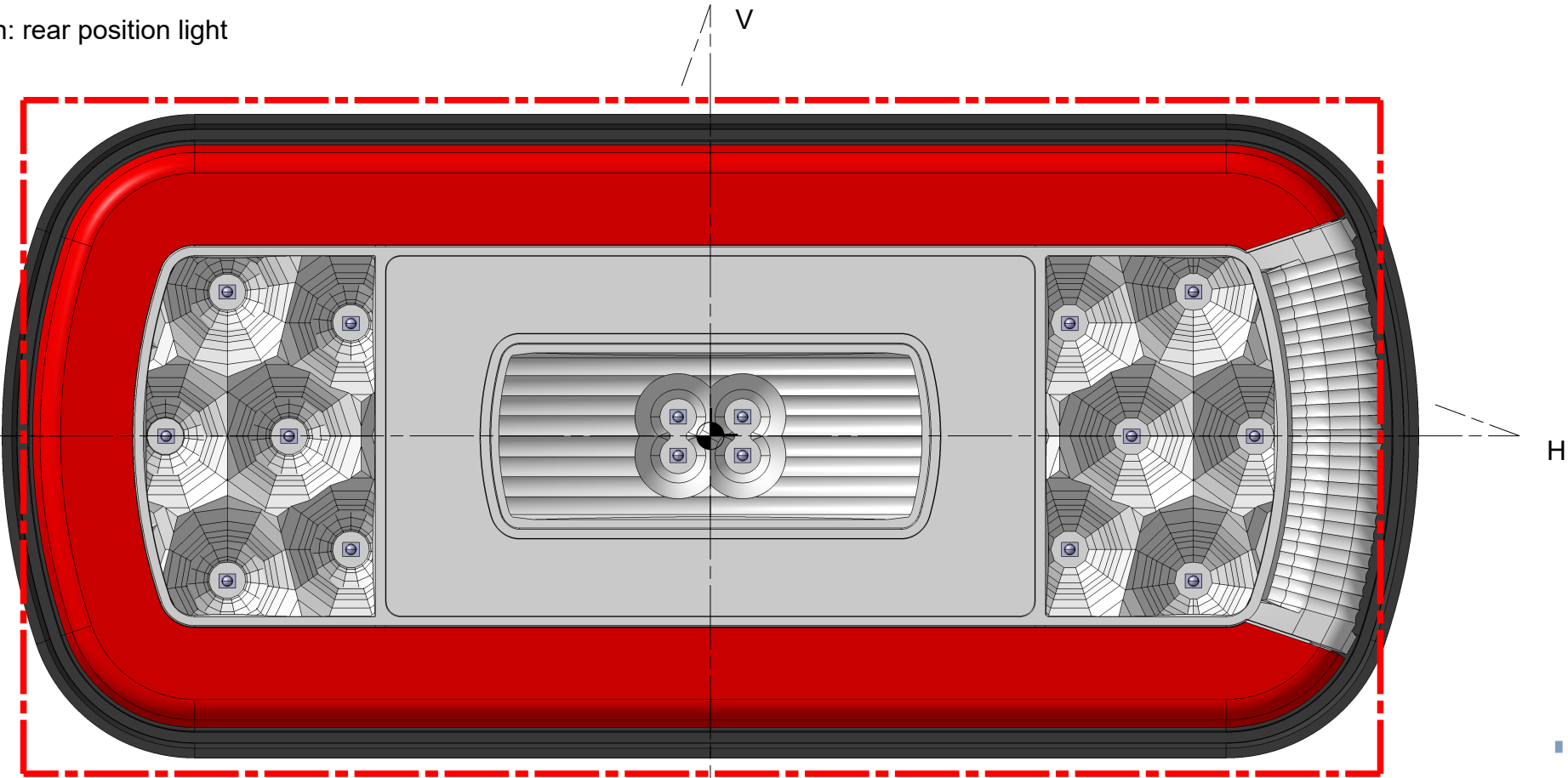
Description:

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 position light



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

Type: FT-130 COF

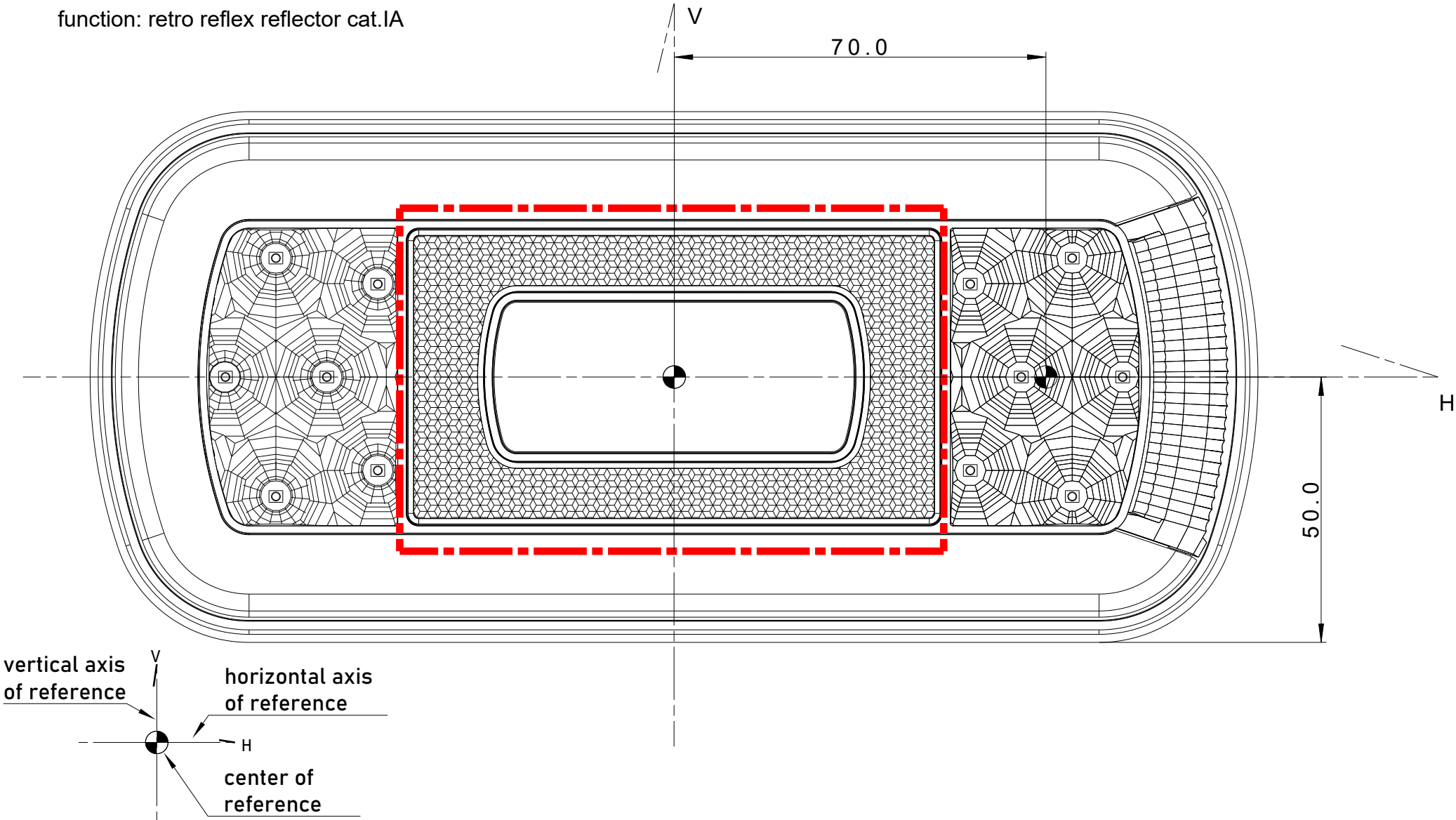
LED multifunction rear lamp

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: retro reflex reflector cat.IA



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

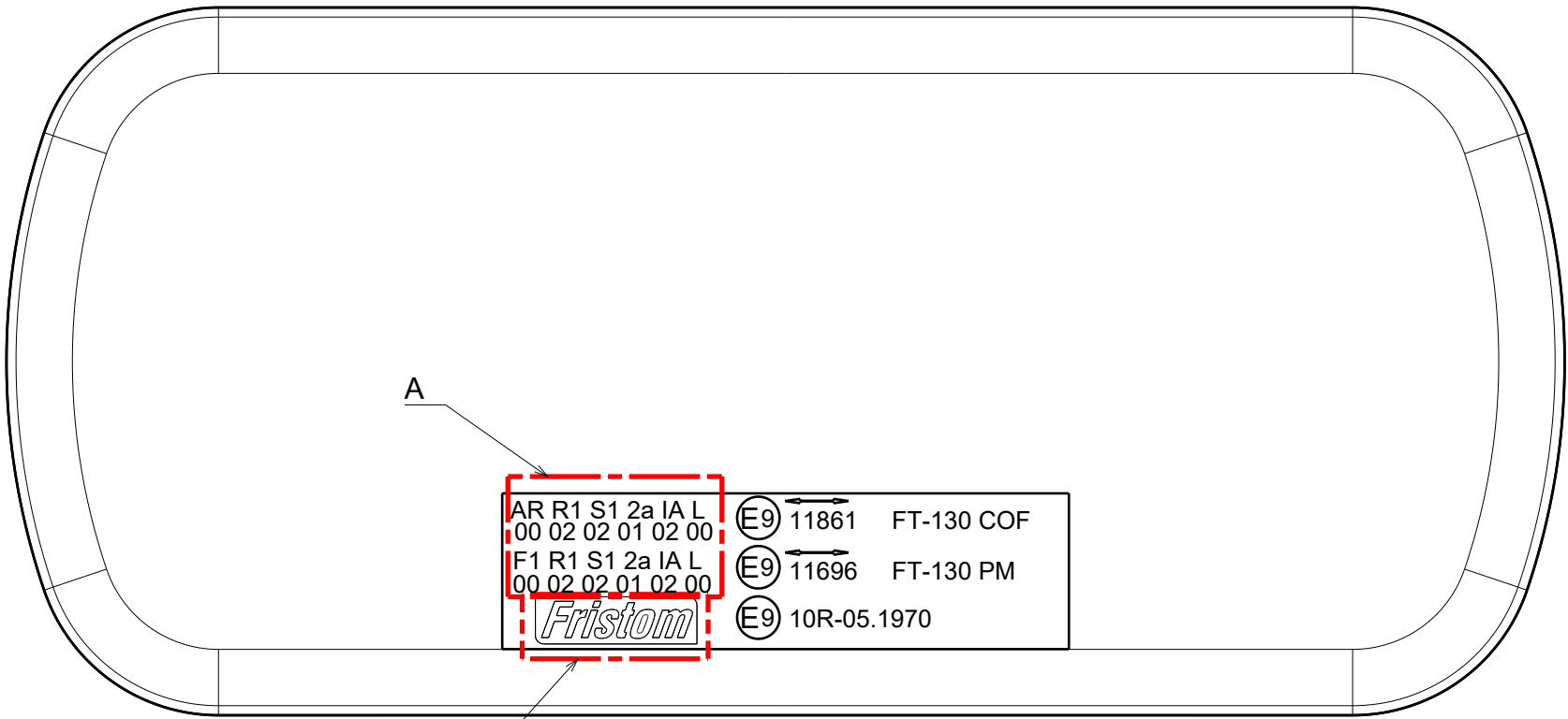
Type: FT-130 COF
LED multifunction rear lamp

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:
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
- amber filter insert PMMA amber
- reflex reflector PMMA red
- potting compound epoxy resin
- printed circuit board type FR4
- reflector ABS white PVD coated



A

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FT-130 COF

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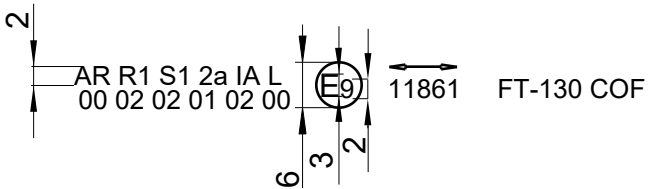
11696

FT-130 PM

E9

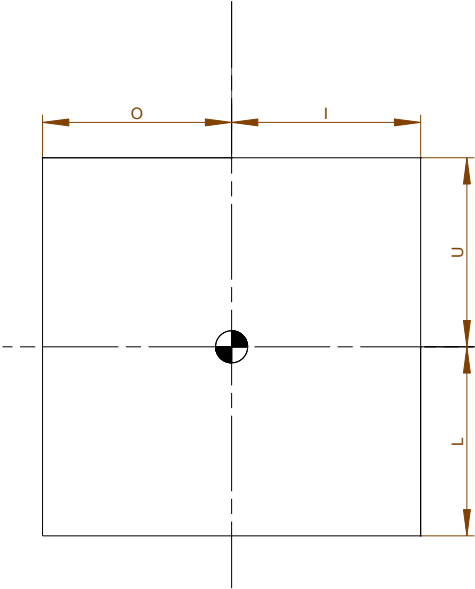
10R-05.1970

B 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			Type: FT-130 COF		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
			LED multifunction rear lamp		
Drawn by: Karol Jonoszak	Date: 05-01-2024	Sheet: 10 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: illumination surface This drawing is a part of the application for approval extension



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 "Instalation of lighting and light-signalling devices" clause 1.9.2.
According to ECE regulation 48/06 "Instalation of light and 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 Tel.: +48 52 360 90 51, Fax: +48 52 327 75 41			Type: FT-130 COF		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	
			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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Drawn by: Karol Jonoszak	Date: 05-01-2024	Sheet: 12 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

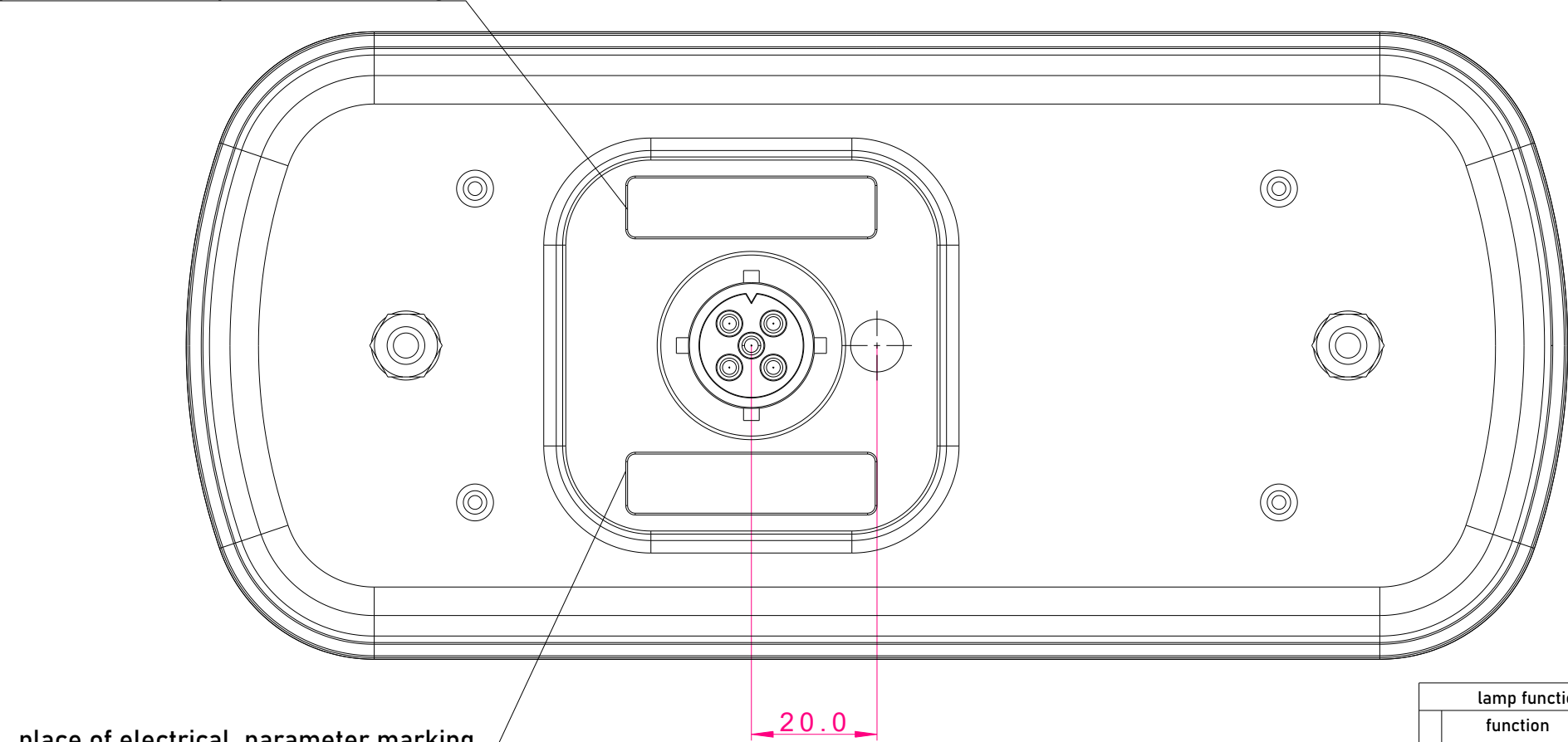
Description:
bajonet plug lamp version
electric parameters
This drawing is a part of the application for approval extension

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

PC24020128



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	Sheet: 13 of 16
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Type:
FT-130 COF

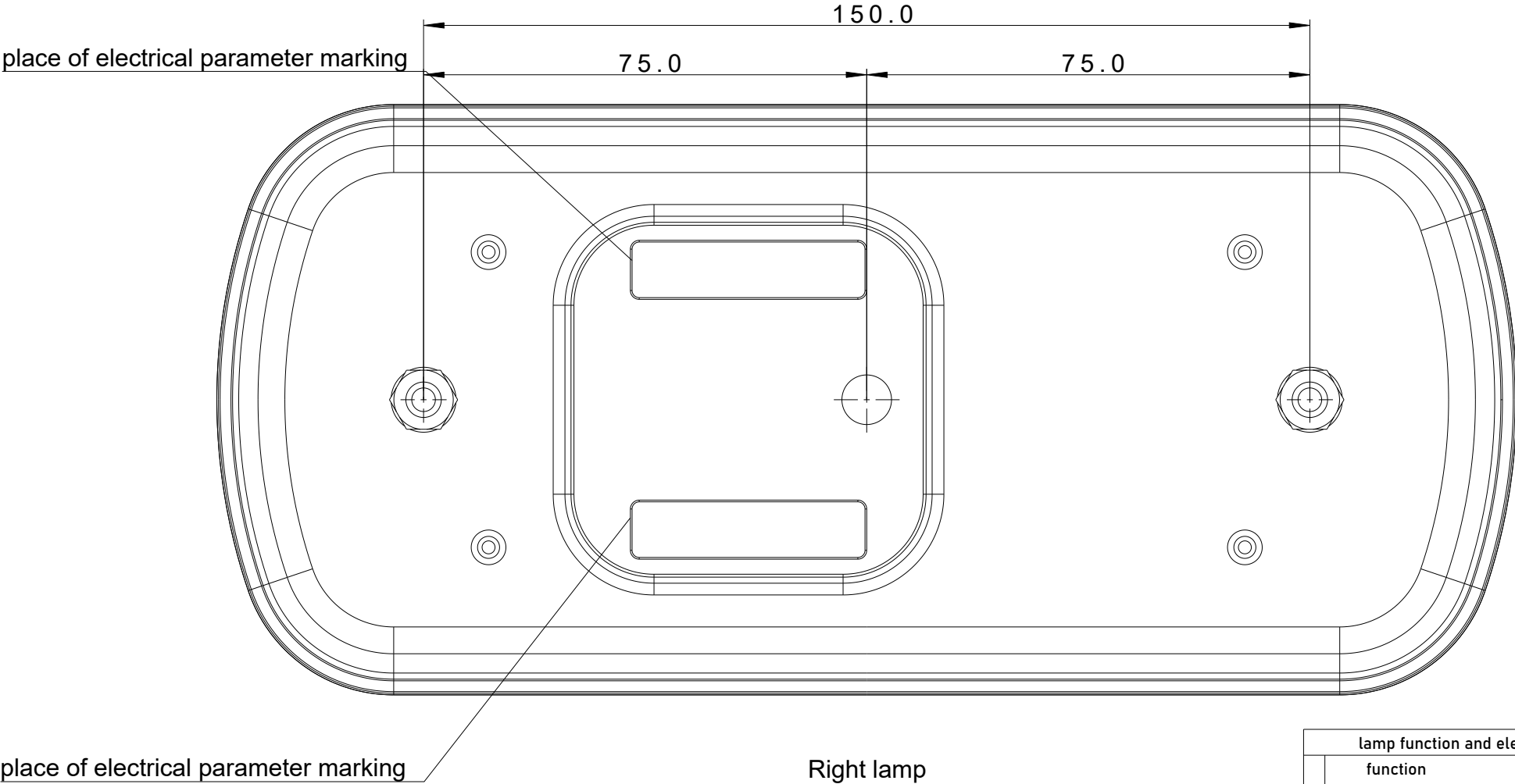
LED multifunction rear lamp

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:
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



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

Manufacturer:
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Drawn by: Karol Jonoszak
Date: 05-01-2024
Sheet: 14 of 16

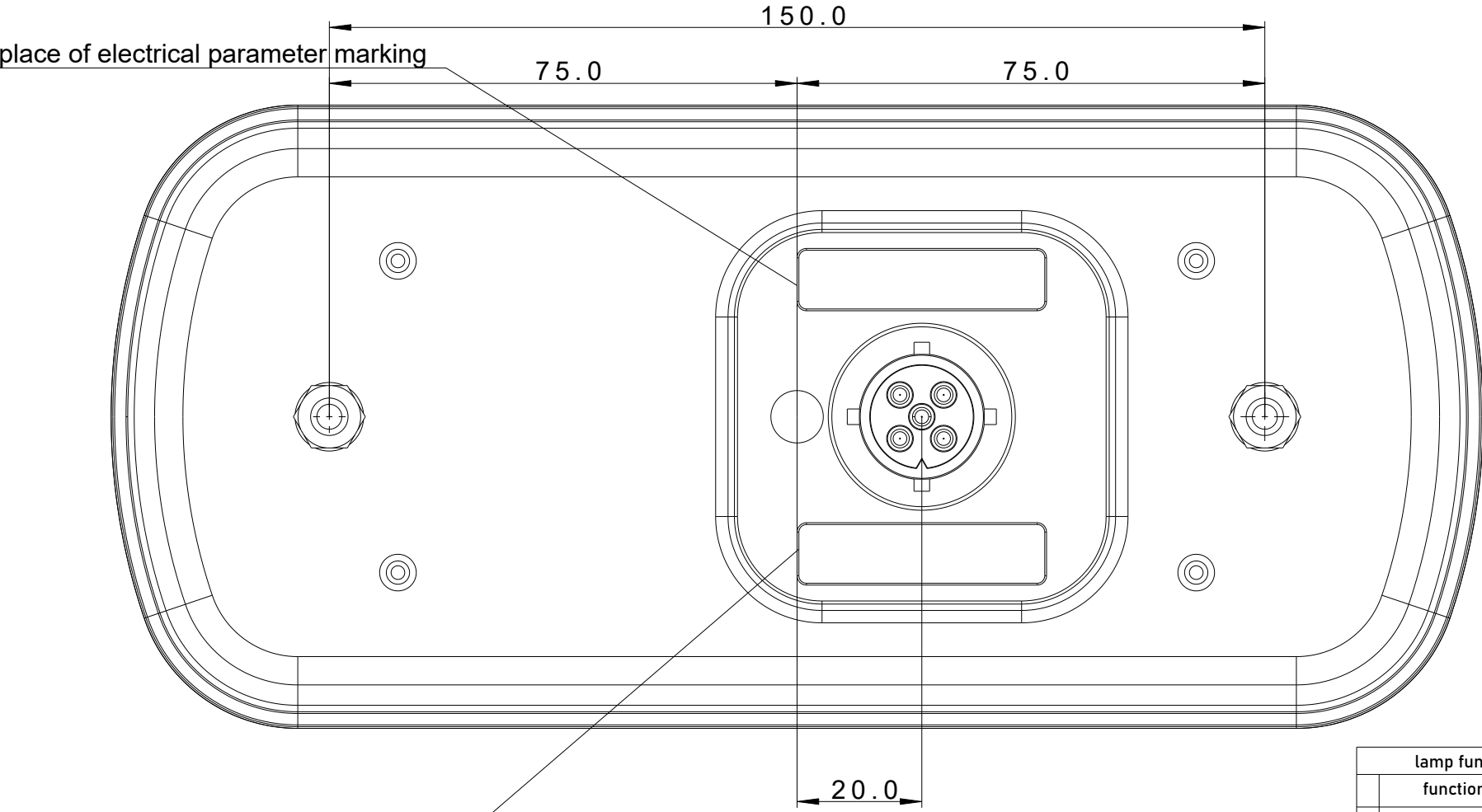
Type:
FT-130 COF
LED multifunction rear lamp

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:
bajonet plug 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
4	reversing light	12V/24V - 3,5W/3,5W
5	registration plate light	12V/24V - 3W/5W

Manufacturer:
FRISTOM Spółka z ograniczoną odpowiedzialnością Sp.K.
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Drawn by: Karol Jonoszak	Date: 05-01-2024	Sheet: 15 of 16
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Type:
FT-130 COF

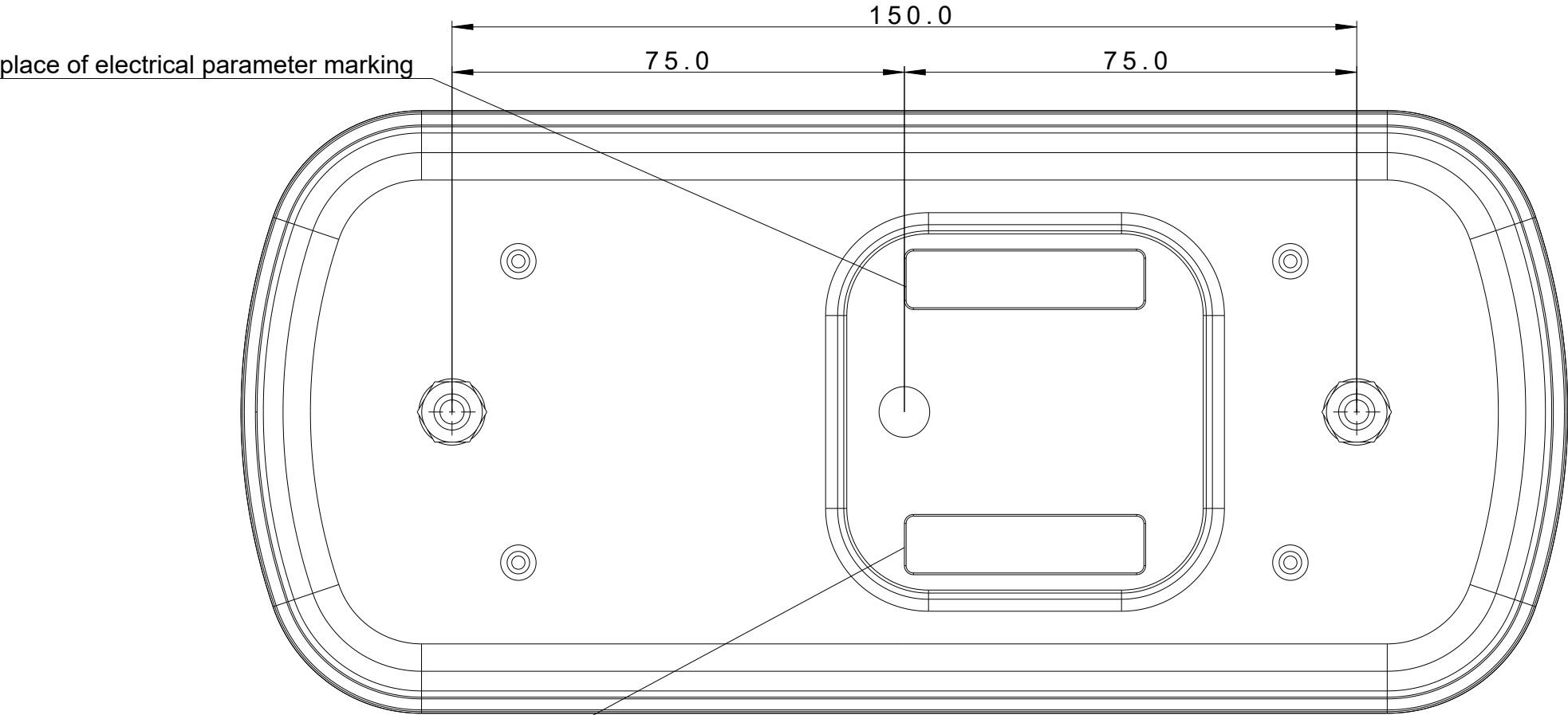
LED multifunction rear lamp

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:
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
4	reversing light	12V/24V - 3,5W/3,5W
5	registration plate light	12V/24V - 3W/5W

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

