



E9*3R02/17*23523*00

Página / Page 1/3



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APPROVAL WITHDRAWN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 catadióptrico en aplicación del Reglamento N°3.
of a type of retro reflecting device pursuant to Regulation No.3.

N° de homologación / *Approval No.*: E9*3R02/17*23523*00

Extensión N° / *Extension No.*: ---

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-072 LED
3. Nombre y dirección del fabricante / *Manufacturer's name and address*:
FRISTOM SPÓLKA Z OGRANICZONA
ODPOWIEDZIALNOSCIA SPÓLKA
KOMANDYTOWA
UL. PRZEMYSŁOWA 5, 86-014
85416 SICIENKO
SICIENKO (POLONIA)

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

4. 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*: 05/04/2020
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*: 22/04/2020
8. Número del informe emitido por dicho servicio / *Number of report issued by that service*: PC20020202
9. Breve descripción / *Concise description*:

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





E9*3R02/17*23523*00

Página / Page 2/3



- 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 integrated into the body of a vehicle: ~~sí/yes~~ - no / no ⁽¹⁾
 - Condiciones geométricas de instalación y variaciones relacionadas, en su caso / Geometrical conditions of installation and relating variations, if any: ---
 - Solamente para instalación limitada en altura igual o inferior a 750 mm por encima del suelo / Only for limited mounting height of equal to or less than 750 mm above the ground: ~~sí/yes~~ - no / no ⁽¹⁾
10. Posición de la marca de homologación / Position of the approval mark: Ver documentación suministrada por el fabricante / See documentation supplied by the manufacturer.

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





E9*3R02/17*23523*00

Página / Page 3/3



11. Motivos de la extensión (en su caso) / *Reason(s) of extension (if applicable):* ---
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 SUBDIRECTOR GENERAL DE CALIDAD Y SEGURIDAD INDUSTRIAL
Resolución P.D. del DIRECTOR GENERAL DE INDUSTRIA Y DE LA PYME de 25-10-2012
16. Se adjunta 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: 15.04.2020

1. Specification data

Type	FT-072 LED	
Trade name or mark	Fristom	
Variants	FT-072 B LED ; FT-072 Z LED ; FT-072 C LED	
Function	Front position ; side marking , rear position , retro reflector class IA	
Color	white light color , amber light color , white light color	
Rated	Voltage	12V/24V
	Wattage	12V=1,2 W ; 24 V= 2,4 W
Applicable Regulation		R07 ; R91 ; R03
Light Source and connection		3 LED's serial connected in 6 parallel sections
Location of marking	Light Source marks	See the drawing
	Trade mark	Marked on lampshade
	Approval mark	Marked on the 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

FRISTOM
Spółka z ograniczoną odpowiedzialnością Sp. k.
86-014 ŚCIENKO, ul. Przemysłowa 5
tel. 52 360 90 50
www.fristom.com.pl
NIP 5542926937 REGON 341640907
MICHAŁ DYBICZ

Manufacturer

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



Drawn by: Michał Dybicz
Date: 15-04-2020
sheet Nr. 1/5

Type

FT-072 B LED – front LED position lamp with retro reflecting device IA

light source

LIGHT SOURCE: LED CHIP SMD chip mounted
18 LED's white light color

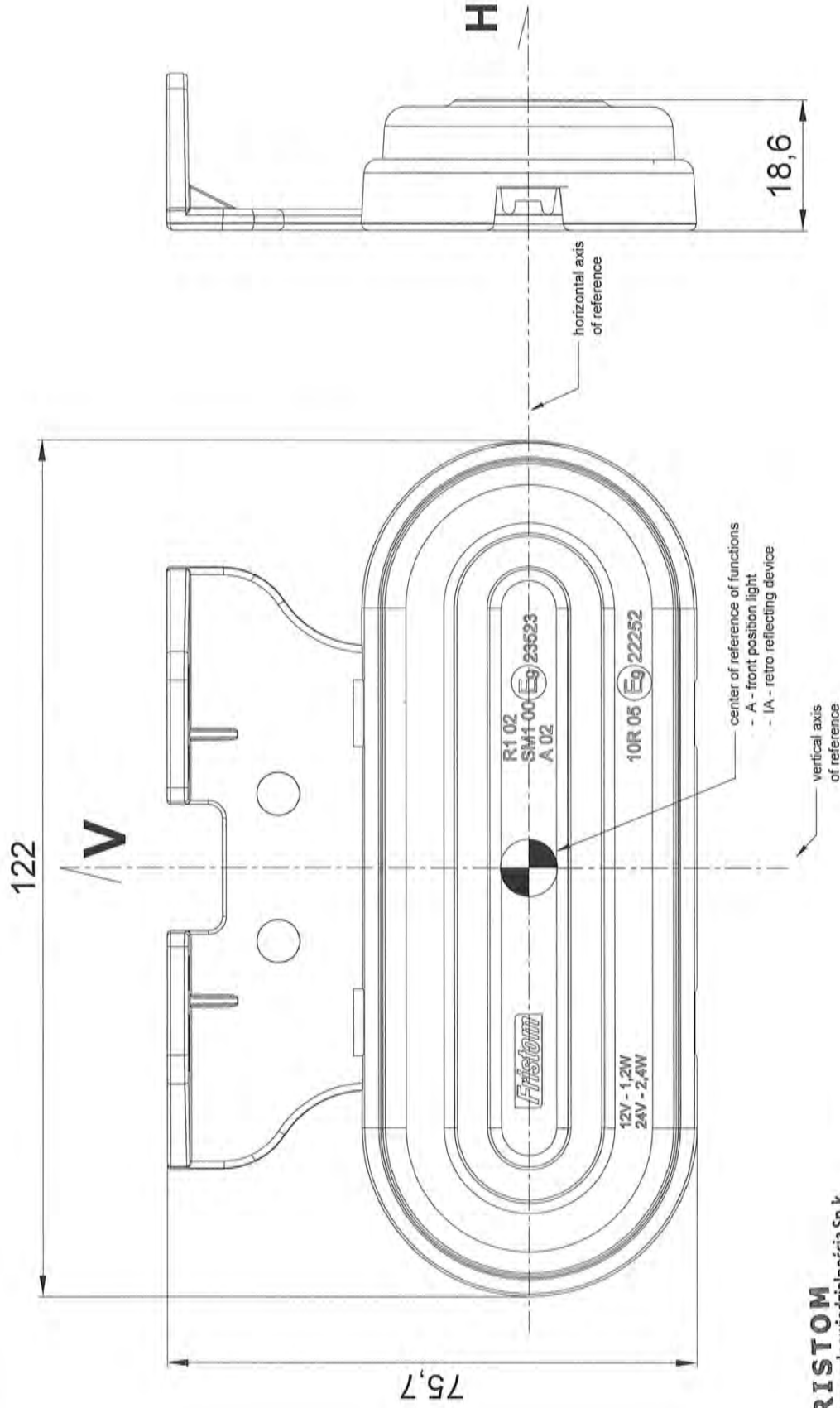
sheet description

general drawing / lamp functions

This drawing is a part of the application for approval

Material used in manufacturing :

- lampshade PMMA transparent clear
- housing PC translucent diffusive
- frame - mounting bracket - PBT black
- PCB FR4
- potting compound epoxy resin



FRISTOM

Spółka z ograniczoną odpowiedzialnością Sp.k.
86-014 SICIENKA, ul. Przemysłowa 5

tel. 52 360 90 50

www.fristom.com.pl

NIP 5542926937 REGON 341540907

front view with angled assembly bracket
PC20020202

MICHAŁ DYBICZ

Manufacturer

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



Drawn by: **Date:**

Michał Dybicz 15-04-2020

sheet Nr.

2/5

Type

FT-072 B LED - front LED position lamp with retro reflecting device IA

Material used in manufacturing :

- lampshade PMMA transparent clear
- housing PC translucent diffusive
- frame - mounting bracket - PBT black
- PCB FR4
- potting compound epoxy resin

sheet description

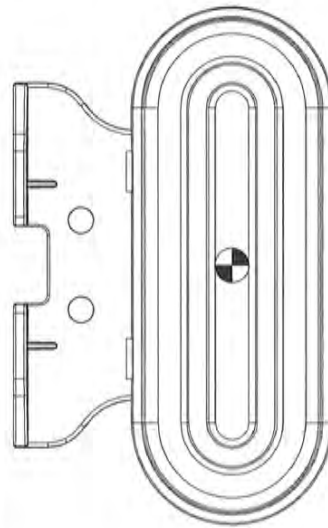
assembly on vehicle

This drawing is a part of the application for approval

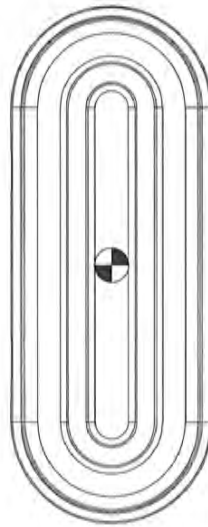
light source

LIGHT SOURCE : LED CHIP SMD chip mounted

18 LED's white light color



front view with angled assembly bracket



front view with simple flat assembly bracket

FRISTOM

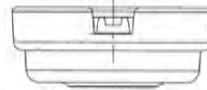
Spółka z ograniczoną odpowiedzialnością Sp. k.
86-014 SICIENKO, ul. Przemysłowa 5
tel. 52 360 90 50
www.fristom.com.pl

MHP 5542926937 REGON 341640907

MICHAŁ DYBICZ

forward
driving
direction

horizontal assembly on vehicle



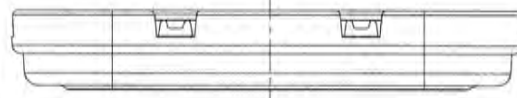
top
of
vehicle

horizontal axis
of reference

vertical axis
of reference

forward
driving
direction

vertical assembly on vehicle



top
of
vehicle

horizontal axis
of reference

vertical axis
of reference

Manufacturer

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



Drawn by: **Date:**

Michał Dybicz 15-04-2020

sheet Nr.

3/5

Type

FT-072 B LED -- front LED position lamp with retro reflecting device IA

Material used in

manufacturing :

- lampshade PMMA transparent clear
- housing PC translucent diffusive
- frame - mounting bracket - PBT black
- PCB FR4
- potting compound epoxy resin

sheet description

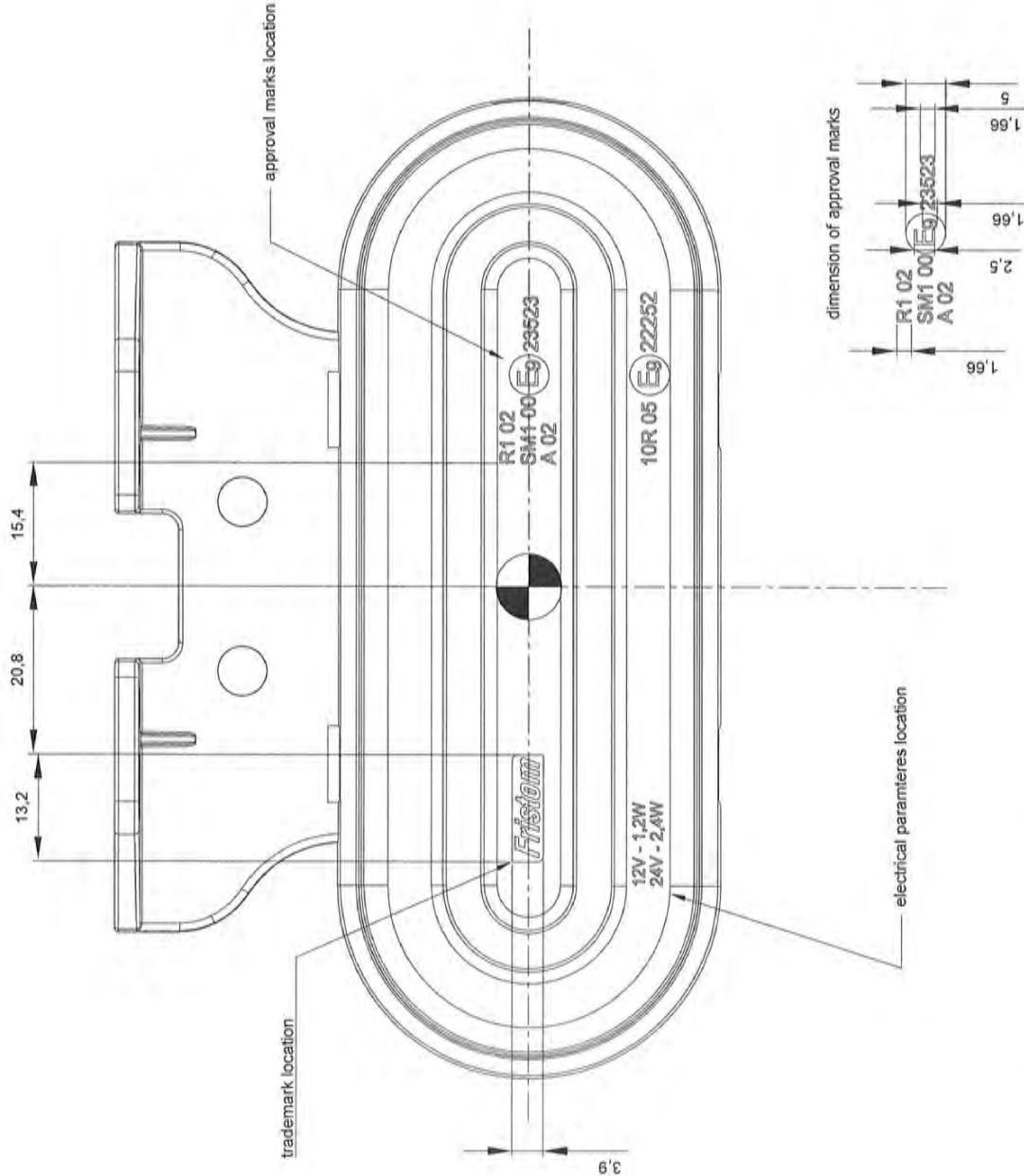
approval markings and electrical parameters

This drawing is a part of the application for approval

light source

LIGHT SOURCE : LED CHIP SMD mounted

18 LED's white light color



Function A - front position light

12 V - 1,2 W

24 V - 2,4 W

18 LED's white light color

3 LED's serial connected in 6 parallel sections

FRISTOM
Spółka z ograniczoną odpowiedzialnością Sp. z o.o.
86-014 SICIENKA, ul. Przemysłowa 5
tel. 52 360 90 50
www.fristom.com.pl
NIP 5542926937 REGON 34154090
MICHAIŁ DYBICZ

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: Michał Dybicz
Date: 15-04-2020
sheet Nr. 4/5

Type

FT-072 B LED - front LED position lamp with retro reflecting device IA

light source

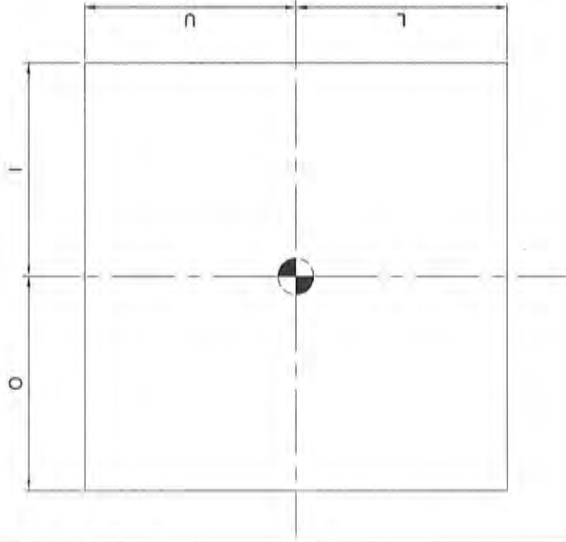
LIGHT SOURCE : LED CHIP SMD chip mounted
18 LED's white light color

sheet description

lighting surface
This drawing is a part of the application for approval

Material used in manufacturing :

- lampshade PMMA transparent clear
- housing PC translucent diffusive
- frame - mounting bracket - PBT black
- PCB FR4
- potting compound epoxy resin



lighting surface				
function	Upper lamp [mm]	Lower lamp [mm]	Outer lamp [mm]	I [mm (mm²)] [mm]
A front position	11	11	45	45

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.

FRISTOM

Spółka z ograniczoną odpowiedzialnością S.c.
86-014 SICIENKO, ul. Przemysłowa 5

tel. 52 360 90 50

www.fristom.com.pl

NIP 5542926937 REGON 341640907

MICHAŁ DYBICZ

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



Drawn by: Michał Dybicz
Date: 15-04-2020
sheet Nr. 5/5

Type

FT-072 B LED - front LED position lamp with retro reflecting device IA

light source

LIGHT SOURCE : LED Chip SMD chip mounted
18 LED's white light color

sheet description

variant tradenames and descriptions
This drawing is a part of the application for approval

Material used in manufacturing :

- lampshade PMMA transparent clear
- housing PC translucent diffusive
- frame - mounting bracket - PBT black
- PCB FR4
- potting compound epoxy resin

item	description
FT-072 B LED	FT-072 B LED Clearance Lamp LED 12-36V, white with reflector and a loom 0,5m.
FT-072 B LED Mxx	FT-072 B LED Clearance Lamp LED 12-36V, white with reflector and a loom xxm.
FT-072 B LED QS075	FT-072 B LED QS075 Clearance Lamp LED 12-36V, white with reflector a loom lenght 0,5m and connector QS075.
FT-072 B LED QS075 Mxx	FT-072 B LED QS075 Clearance Lamp LED 12-36V, white with reflector a loom lenght xxm and connector QS075.
FT-072 B LED QS150	FT-072 B LED QS150 Clearance Lamp LED 12-36V, white with reflector a loom lenght 0,5m and connector QS150.
FT-072 B LED QS150 Mxx	FT-072 B LED QS150 Clearance Lamp LED 12-36V, white with reflector a loom lenght xxm and connector QS150.
where x is number from 0 till 9	

FRISTOM
Spółka z ograniczoną odpowiedzialnością Sp. k.
86-014 SICIENKO, ul. Przemysłowa 5
tel. 52 360 90 50
www.fristom.com.pl
NIP 5542926937 REGON 341640907
MICHAŁ DYBICZ

Manufacturer

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



Drawn by: **Date:**

Michał Dybicz 15-04-2020

sheet Nr.

1/5

Type

FT-072 C LED - rear LED position lamp with retro reflecting device IA

light source

LIGHT SOURCE : LED chip SMD chip mounted

18 LED's red light color

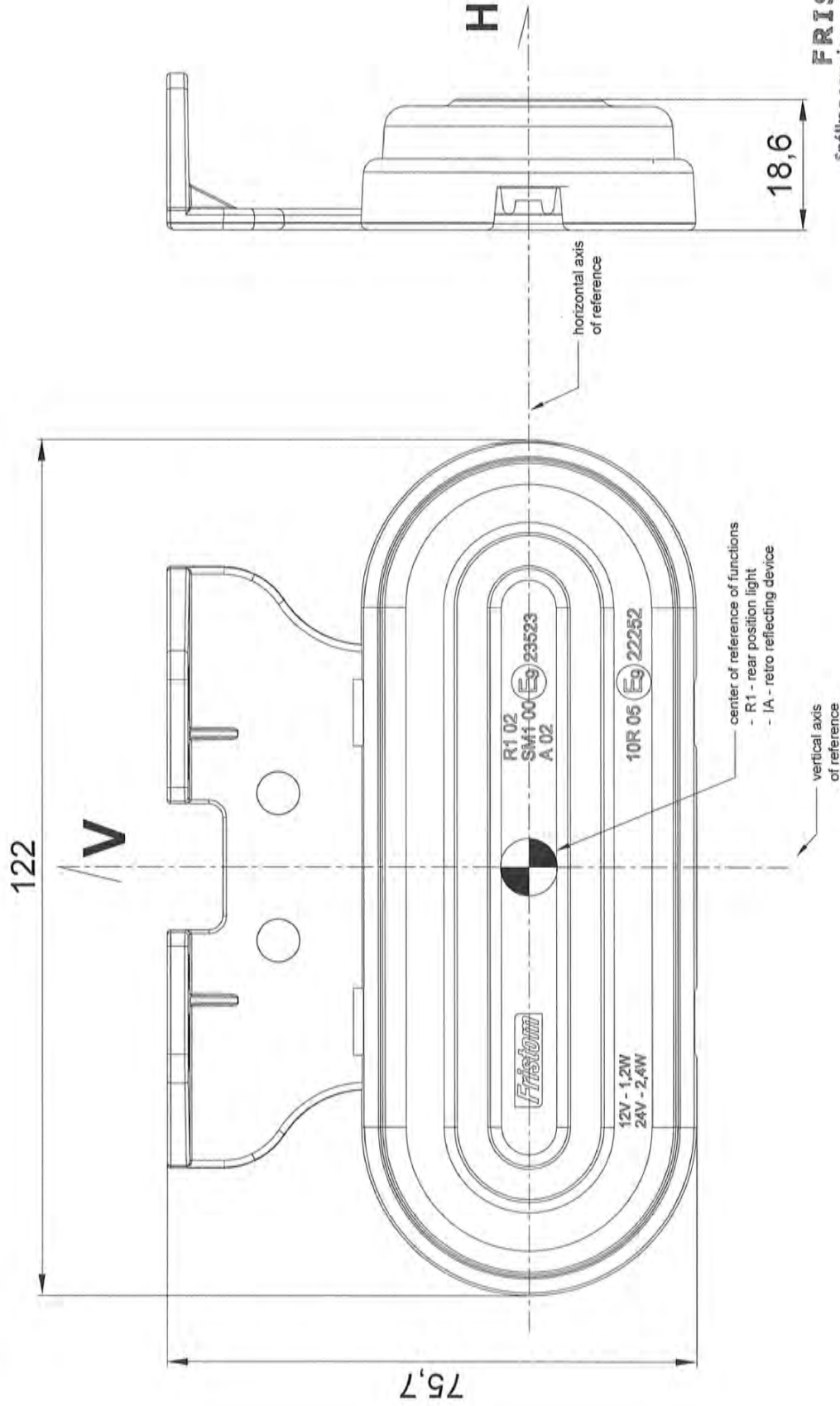
sheet description

general drawing / lamp functions

This drawing is a part of the application for approval

Material used in manufacturing :

- lamshade PMMA transparent red
- housing PC translucent diffusive
- frame - mounting bracket - PBT black
- PCB FR4
- potting compound epoxy resin



FRISTOM
Spółka z ograniczoną odpowiedzialnością Sp. k.
86-014 SICIENKO, ul. Przemysłowa 5
tel. 52 360 90 50
www.fristom.com.pl
NIP 5542926937 REGON 341640907

İDİADA front view with angled assembly bracket
PC20020202

MICHAŁ DYBICZ

Manufacturer

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



Drawn by: **Date:**

Michał Dybicz 15-04-2020

sheet Nr.

2/5

Type

FT-072 C LED - rear LED position lamp with retro reflecting device IA

light source

LIGHT SOURCE : LED CHIP SMD chip mounted
18 LED's red light color

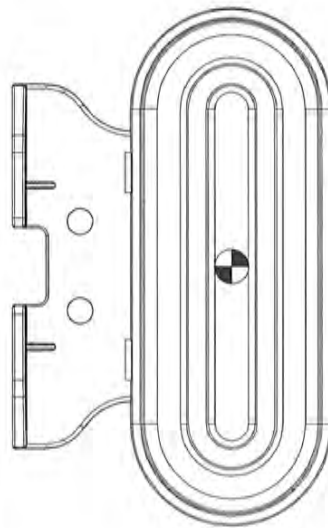
sheet description

assembly on vehicle

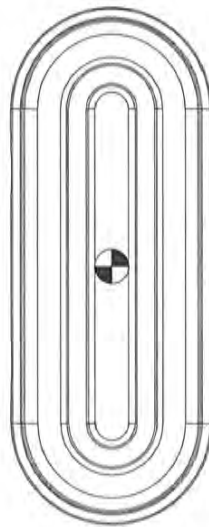
This drawing is a part of the application for approval

Material used in manufacturing :

- lampshade PMMA transparent red
- housing PC translucent diffusive
- frame - mounting bracket - PBT black
- PCB FR4
- potting compound epoxy resin



front view with angled assembly bracket



front view with simple flat assembly bracket

FRISTOM

Spółka z ograniczoną odpowiedzialnością Sp. z o.o.
86-014 SICIENKO, ul. Przemysłowa 5

tel. 52 360 90 50

www.fristom.com.pl

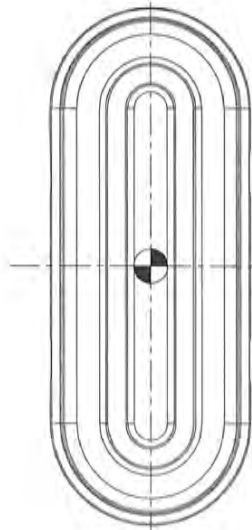
NIP 5542926937 REGON 341640907

MICHAŁ DYBICZ

forward
driving
direction



horizontal assembly on vehicle



vertical axis
of reference

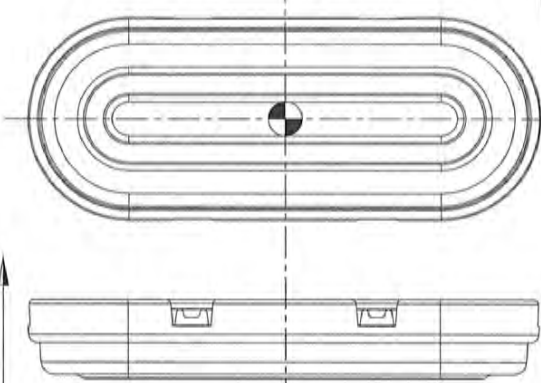
top
of
vehicle

horizontal axis
of reference

forward
driving
direction



vertical assembly on vehicle



top
of
vehicle

horizontal axis
of reference

vertical axis
of reference

Manufacturer

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



Drawn by: **Date:**

Michał Dybicz 15-04-2020

sheet Nr.

3/5

Type

FT-072 C LED - rear LED position lamp with retro reflecting device IA

Material used in

manufacturing :

- lampshade PMMA transparent red
- housing PC translucent diffuser
- frame - mounting bracket - PBT black
- PCB FR4
- potting compound epoxy resin

sheet description

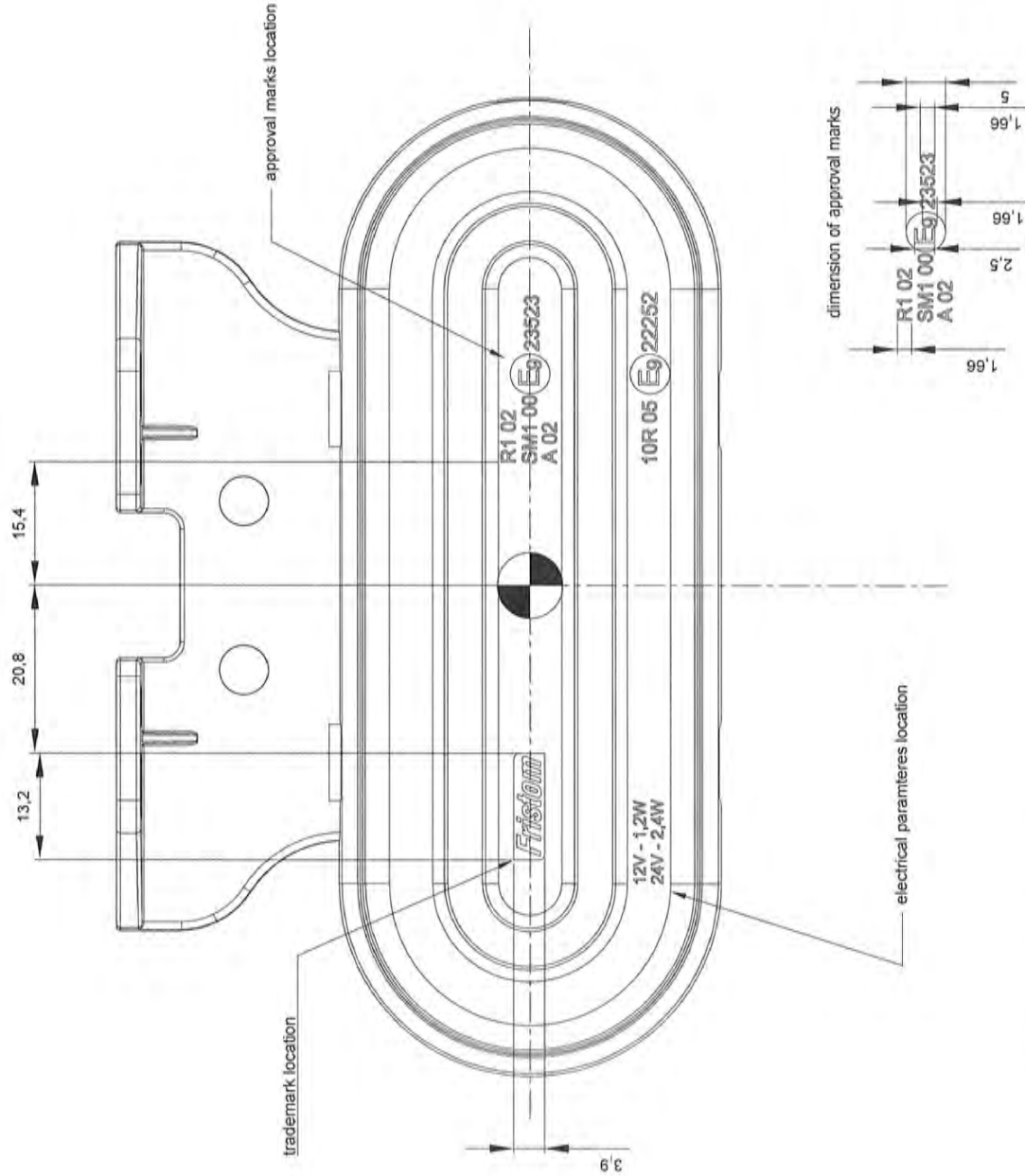
approval markings and electrical parameters

This drawing is a part of the application for approval

light source

LIGHT SOURCE : LED CHIP SMD chip mounted

18 LED's red light color



Function R1 - rear position light

12 V - 1,2 W

24 V - 2,4 W

18 LED's red light color

3 LED's serial connected in 6 parallel sections

FRISTOM

Spółka z ograniczoną odpowiedzialnością Sp. z o.o.

86-014 SICIENKO, ul. Przemysłowa 5

tel. 52 360 90 50

www.fristom.com.pl

NIP 5542926937 REGON 341640907

MICHAŁ DYBICZ

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: Michał Dybicz
Date: 15-04-2020
sheet Nr.: 4/5

Type

FT-072 C LED - rear LED position lamp with retro reflecting device IA

light source

LIGHT SOURCE : LED CHIP SMD chip mounted
18 LED 's red light color

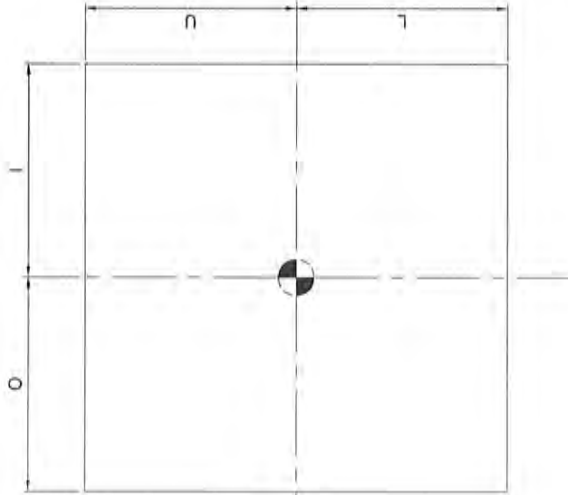
sheet description

lighting surface

This drawing is a part of the application for approval

Material used in manufacturing :

- lampshade PMMA transparent red
- housing PC translucent diffusive
- frame - mounting bracket - PBT black
- PCB FR4
- potting compound epoxy resin



lighting surface				
function	Upper ring [mm]	Lower ring [mm]	Outer ring [mm]	Inner ring [mm]
R1 rear position light	11	11	45	45

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.

FRISTOM

Spółka z ograniczoną odpowiedzialnością Sp.k.
86-014 SICIENKO, ul. Przemysłowa 5
tel. 52 360 90 50

www.fristom.com.pl

NIP 5542926937 REGON 341640907

MICHAŁ DYBICZ

Manufacturer

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

**Drawn by:**

Michał Dypicz

Date:

15-04-2020

sheet Nr.

5/5

Type**FT-072 C LED** - rear LED position lamp with retro reflecting device IA**Material used in manufacturing :**

- lampshade PMMA transparent red
- housing PC translucent diffusive
- frame - mounting bracket - PBT black
- PCB FR4
- potting compound epoxy resin

light source

LIGHT SOURCE : LED CHIP SMD chip mounted
18 LED's red light color

sheet description

variant tradenames and descriptions

This drawing is a part of the application for approval

item description

FT-072 C LED	FT-072 C LED Clearance Lamp LED 12-36V, RED with reflector and a loom 0.5m.
FT-072 C LED Mxx	FT-072 C LED Clearance Lamp LED 12-36V, RED with reflector and a loom xxm.
FT-072 C LED QS075	FT-072 C LED QS075 Clearance Lamp LED 12-36V, RED with reflector a loom lenght 0.5m and connector QS075.
FT-072 C LED QS075 Mxx	FT-072 C LED QS075 Clearance Lamp LED 12-36V, RED with reflector a loom lenght xxm and connector QS075.
FT-072 C LED QS150	FT-072 C LED QS150 Clearance Lamp LED 12-36V, RED with reflector a loom lenght 0.5m and connector QS150.
FT-072 C LED QS150 Mxx	FT-072 C LED QS150 Clearance Lamp LED 12-36V, RED with reflector a loom lenght xxm and connector QS150.
where x is number from 0 till 9	

FRISTOM

Spółka z ograniczoną odpowiedzialnością Sp. k.
86-014 SICIENKO, ul. Przemysłowa 5
tel. 52 360 90 50
www.fristom.com.pl

NIP 5542926937 REGON 341640907

MICHAŁ DYBICZ

İİDİADA PC20020202

Manufacturer

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



Drawn by: **Date:**

Michał Dyołcz 15-04-2020

sheet Nr.

1/5

Type

FT-072 Z LED - LED side marking lamp with retro reflecting device IA

Material used in manufacturing :

- lampshade PMMA transparent amber
- housing PC translucent diffusive
- frame - mounting bracket - PBT black
- PCB FR4
- potting compound epoxy resin

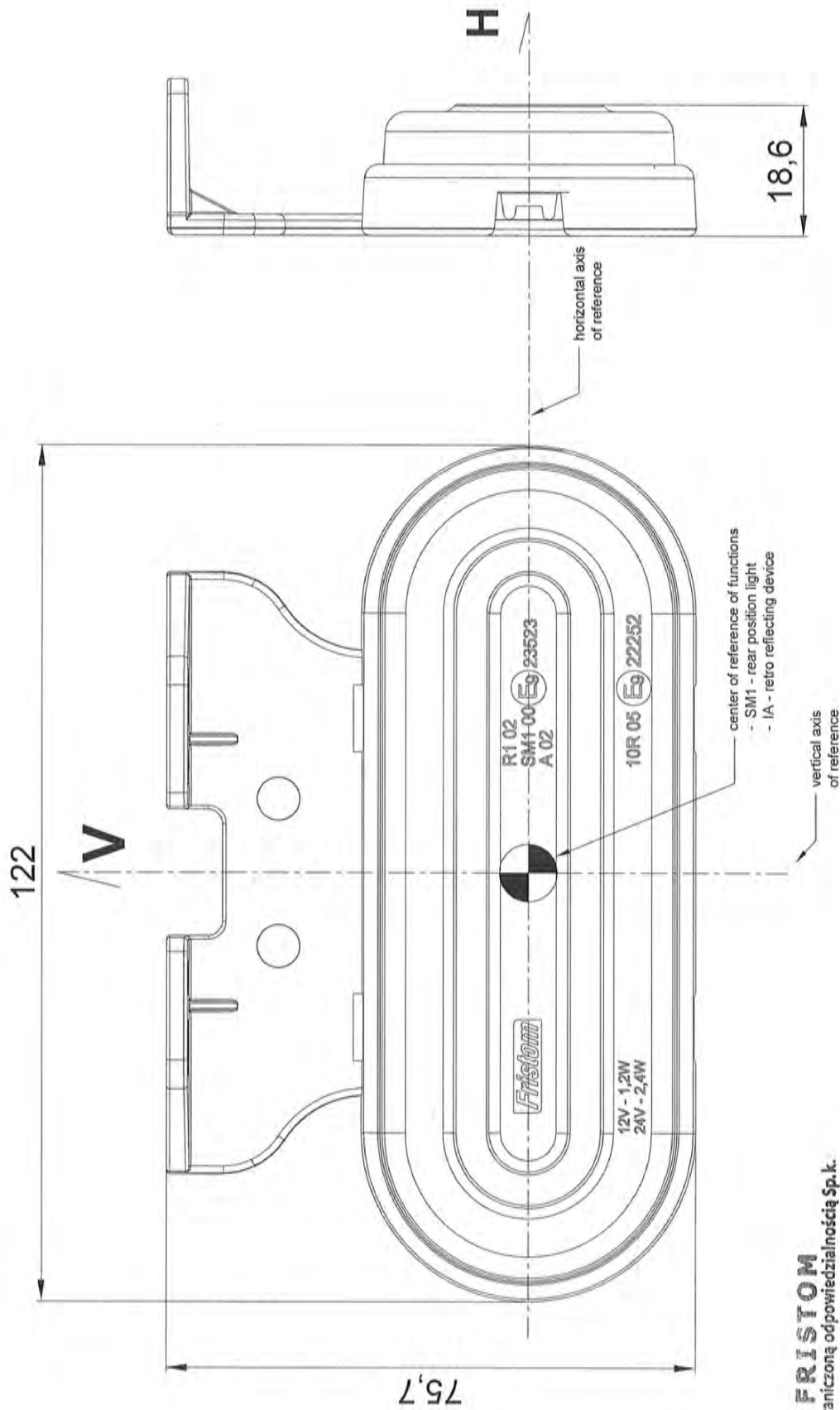
light source

LIGHT SOURCE : LED chip SMD chip mounted
18 LED's white light color

sheet description

general drawing / lamp functions

This drawing is a part of the application for approval



FRISTOM

Spółka z ograniczoną odpowiedzialnością Sp.k.
86-014 SICIENKA, ul. Przemysłowa 5

tel. 52 360 90 50

www.fristom.com.pl

NIP 5542926937 REGON 141640307

IDIADA

front view with angled assembly bracket

PC20020202

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:**

Michał Dybicz 15-04-2020

sheet Nr.

2/5

Type

FT-072 Z LED - LED side marking lamp with retro reflecting device IA

light source

LIGHT SOURCE : 1 LED CHIP SMD chip mounted
18 LED's white light color

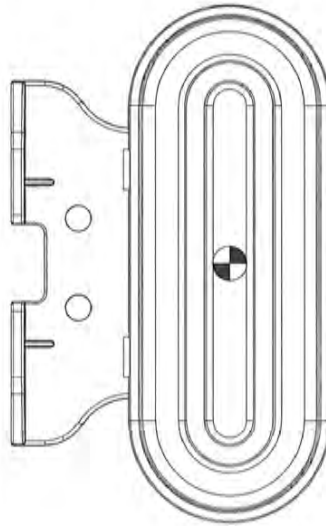
sheet description

assembly on vehicle

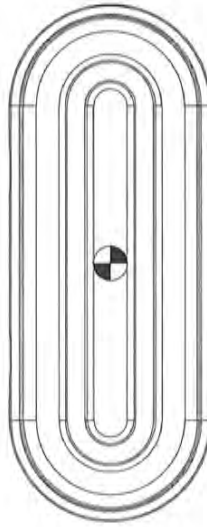
This drawing is a part of the application for approval

Material used in manufacturing :

- lampshade PMMA transparent amber
- housing PC translucent diffusive
- frame - mounting bracket - PBT black
- PCB FR4
- potting compound epoxy resin



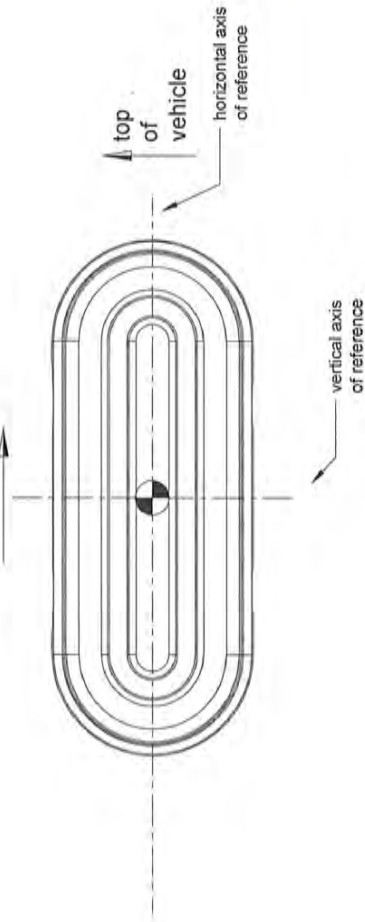
front view with angled assembly bracket



front view with simple flat assembly bracket

only horizontal assembly on vehicle

forward driving direction if
assembled right



FRISTOM
Spółka z ograniczoną odpowiedzialnością Sp. k.
86-014 SICIENKO, ul. Przemysłowa 5

tel. 52 360 90 50

www.fristom.com.pl

NIP 5542926937 REGON 341640907

MICHAŁ DYBICZ

Manufacturer

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



Drawn by: **Date:**

Michał Dybicz 15-04-2020

sheet Nr.

3/5

Type

FT-072 Z LED - LED side marking lamp with retro reflecting device IA

Material used in manufacturing :

- lampshade PMMA transparent amber
- housing PC translucent diffusive
- frame - mounting bracket - PBT black
- PCB FR4
- potting compound epoxy resin

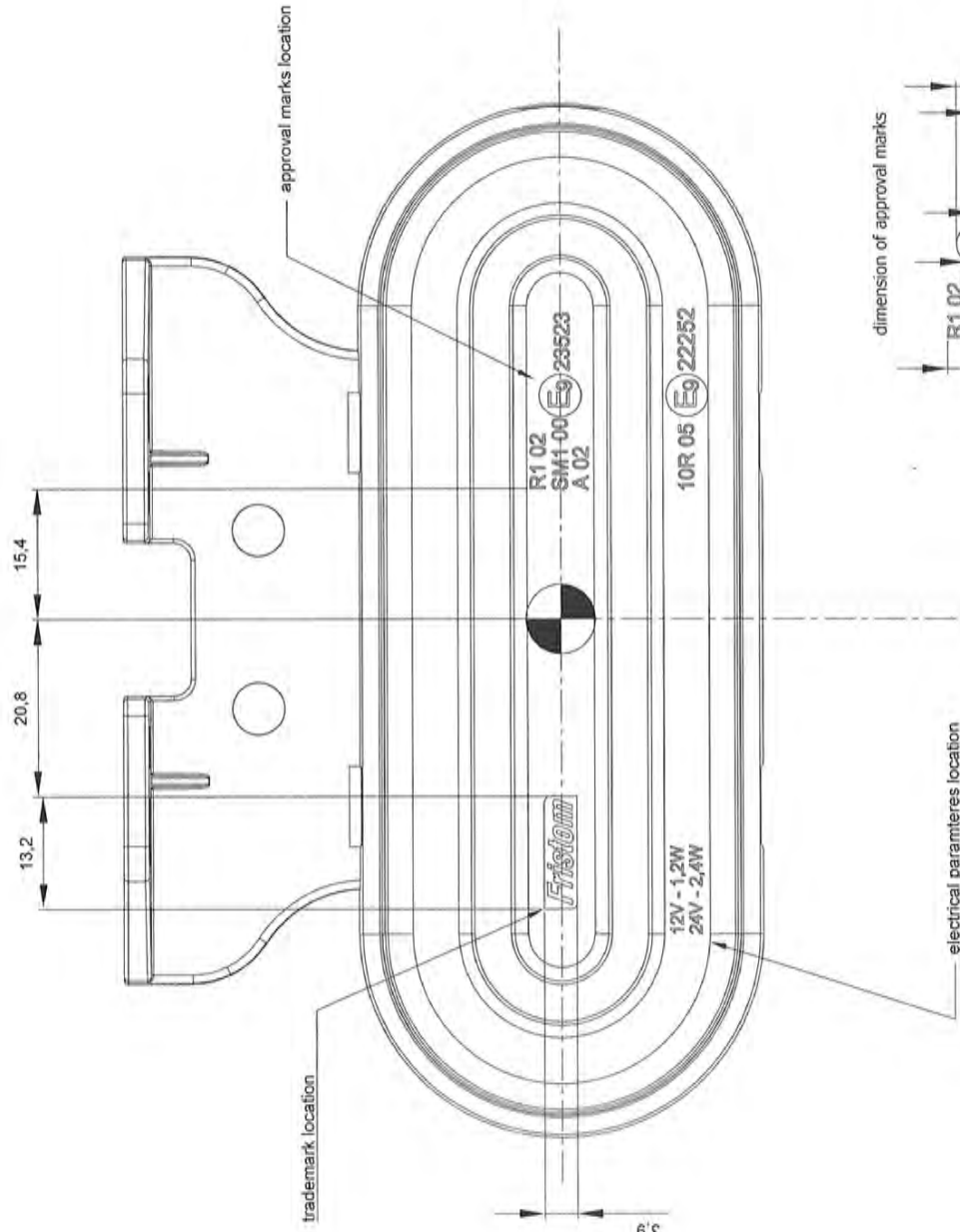
sheet description

approval markings and electrical parameters
This drawing is a part of the application for approval

light source

LIGHT SOURCE : LED CHIP SMD chip mounted

18 LED's white light color



Function SM1 - side marking light

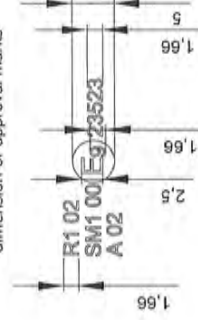
12 V - 1,2 W

24 V - 2,4 W

18 LED's white light color

3 LED's serial connected in 6 parallel sections

dimension of approval marks



electrical parameters location

FRISTOM

Spółka z ograniczoną odpowiedzialnością Sp. k.
86-014 SICIENKO, ul. Przemysłowa 5
tel. 52 360 90 50

www.fristom.com.pl

NIP 5542926937 REGON 341640900

MICHAŁ DYBICZ

İİDİADA PC20020202

Manufacturer

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



Drawn by: Michał Dybicz
Date: 15-04-2020
sheet Nr. 4/5

Type

FT-072 Z LED - LED side marking lamp with retro reflecting device IA

Material used in manufacturing :

- lampshade PMMA transparent amber
- housing PC translucent diffusive
- frame - mounting bracket - PST black
- PCB FR4
- potting compound epoxy resin

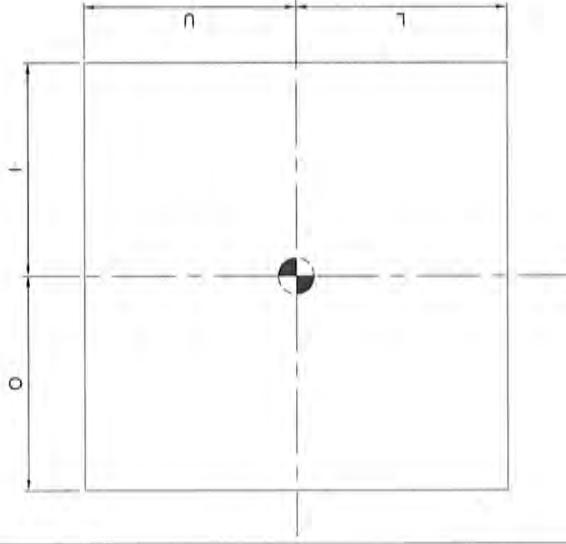
light source

LIGHT SOURCE : LED CHIP SMD chip mounted
18 LED's white light color

sheet description

lighting surface

This drawing is a part of the application for approval



lighting surface				
function	Upper edge [mm]	Lower edge [mm]	Outer edge [mm]	Inner edge [mm]
SM1 side marking light	11	11	45	45

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.

FRISTOM

Spółka z ograniczoną odpowiedzialnością Sp. k.
86-014 SICIENKO, ul. Przemysłowa 5

tel./ 52 360 90 50

www.fristom.com.pl

NIP 5542926937 REGON 341640907

MICHAŁ DYBICZ

Manufacturer

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



Drawn by: **Date:** 15-04-2020 **sheet Nr.** 5/5

Michał Dybicz

Type

FT-072 Z LED - LED side marking lamp with retro reflecting device IA

light source

LIGHT SOURCE : LED CHIP SMD chip mounted
18 LED's white light color

sheet description

variant tradenames and descriptions

This drawing is a part of the application for approval

Material used in manufacturing :

- lampshade PMMA transparent amber
- housing PC translucent diffusive
- frame - mounting bracket - PBT black
- PCB FR4
- potting compound epoxy resin

item	description
FT-072 Z LED	FT-072 Z LED Clearance Lamp LED 12-36V, YELLOW with reflector and a loom 0,5m.
FT-072 Z LED Mxx	FT-072 Z LED Clearance Lamp LED 12-36V, YELLOW with reflector and a loom xxm.
FT-072 Z LED QS075	FT-072 Z LED QS075 Clearance Lamp LED 12-36V, YELLOW with reflector a loom lenght 0,5m and connector QS075.
FT-072 Z LED QS075 Mxx	FT-072 Z LED QS075 Clearance Lamp LED 12-36V, YELLOW with reflector a loom lenght xxm and connector QS075.
FT-072 Z LED QS150	FT-072 Z LED QS150 Clearance Lamp LED 12-36V, YELLOW with reflector a loom lenght 0,5m and connector QS150.
FT-072 Z LED QS150 Mxx	FT-072 Z LED QS150 Clearance Lamp LED 12-36V, YELLOW with reflector a loom lenght xxm and connector QS150.
where x is number from 0 till 9	

FRISTOM

Spółka z ograniczoną odpowiedzialnością Sp. z o.o.
86-014 SICIENKO, ul. Przemysłowa 5

tel. 52 360 90 50

www.fristom.com.pl

NIP 5542926937 REGON 341640907

MICHAŁ DYBICZ