



E9*7R02/27*23874*00

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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APPROVAL WITHDRAWN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 en aplicación del Reglamento N° 7.
of a type of device pursuant to Regulation No.7.

N° de homologación / Approval No.: E9*7R02/27*23874*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-074 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)
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: 16/11/2020
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: 01/12/2020
8. Número del informe emitido por dicho servicio / Number of report issued by that service: PC20090308

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





E9*7R02/27*23874*00

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9. Breve descripción / *Concise description:*

9.1. Por categoría de luz / *By category of lamp:* Luz de posición delantera (A) y luz de posición trasera (R1) / *Front position lamp (A) and rear position lamp (R1)*

- 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⁾
Luz de posición delantera / *Front position lamp:* blanco / *white*
Luz de posición trasera / *Rear position lamp:* rojo / *red*
- Número, categoría(s) y tipo de la(s) fuente(s) luminosa(s) / *Number, category and kind of light source(s):*
Luz de posición delantera / *Front position lamp:* 1 x LED
Luz de posición trasera / *Rear position lamp:* 1 x LED
- Voltaje y potencia / *Voltage and wattage:* 12V/24V, 0.4W/0.8W
- 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:* sí / *yes* - no / *no* ⁽¹⁾
- Condiciones geométricas de instalación y variaciones relacionadas, en su caso / *Geometrical conditions of installation and relating variations, if any:* ---
- 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 paro / luz de galibo~~ ⁽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⁾

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





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9.2. Función(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 / <i>Front position lamp:</i> | sí /yes - no / no ⁽¹⁾ |
| R1 Luz de posición trasera / <i>R1 Rear position lamp:</i> | sí /yes - no / no ⁽¹⁾ |
| R2 Luz de posición trasera / <i>R2 Rear position lamp:</i> | sí /yes - no /no ⁽¹⁾ |
| S1 Luz de pare / <i>S1 Stop lamp:</i> | sí /yes - no /no ⁽¹⁾ |
| S2 Luz de pare / <i>S2 Stop lamp:</i> | sí /yes - no /no ⁽¹⁾ |
| S3 Luz de pare / <i>S3 Stop lamp:</i> | sí /yes - no /no ⁽¹⁾ |
| S4 Luz de pare / <i>S4 Stop lamp:</i> | sí /yes - no /no ⁽¹⁾ |
| Luz de gálibo / <i>End-outline marker lamp:</i> | 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.*

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.*

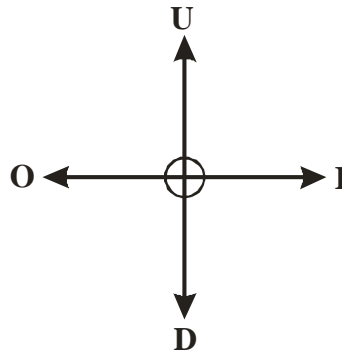
- Informe del ensayo / *Test report*
- Documentación suministrada por el fabricante / *Documentation supplied by the manufacturer*

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





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) |
|--|---|--|--|
| 9.5 | 9.5 | 9.5 | 9.5 |

Validate this report with the security code «EDYDVCAA» at: <https://extranet.idiada.com/hom-cve>
Verifique el informe con código de seguridad «EDYDVCAA» en: <https://extranet.idiada.com/hom-cve>

IDIADA PC20090308

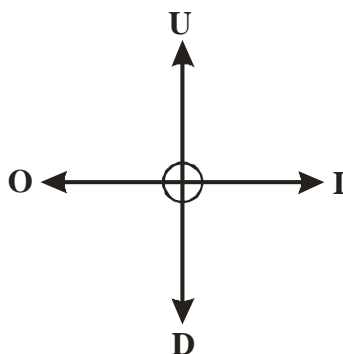
* LOS RESULTADOS PRESENTADOS SE REFIEREN ÚNICAMENTE A LA MUESTRA ENSAYADA.
THE PRESENTED RESULTS REFER ONLY TO THE TESTED SAMPLE.

* 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.



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) |
|---|--|---|---|
| 9.5 | 9.5 | 9.5 | 9.5 |

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

Fecha del ensayo / Test date: 16/11/2020

Validate this report with the security code «EDYDVCAA» at: <https://extranet.idiada.com/hom-cve>
Verifique el informe con código de seguridad «EDYDVCAA» en: <https://extranet.idiada.com/hom-cve>



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.
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- * EL LABORATORIO HA CALCULADO LA INCERTIDUMBRE DE MEDIDA ASOCIADA A LOS RESULTADOS.
MEASUREMENT UNCERTAINTY OF THE RESULTS HAS BEEN CALCULATED BY THE LABORATORY.

INFORMATION FOLDER:

FIRST APPLICATION
DATE: 16.11.2020

1. Specification data

| | | |
|-----------------------------|--|---------------------------------|
| Type | FT-074 LED | |
| Trade name or mark | Fristom | |
| Variants | FT-074 B LED / FT-074 Z LED / FT-074 C LED | |
| Function | Front position lamp / side marking lamp / rear position lamp | |
| Color | white light color /amber light color / | |
| Rated | Voltage | 12V/24V |
| | Wattage | 12V=0,4 W ; 24 V= 0,8 W |
| Applicable Regulation | | R07 / R91 / R07 |
| Light Source and connection | | 1 white LED / 2 amber light LED |
| Location of marking | Light Source marks | See the drawing |
| | Trade mark | Marked on elastic housing |
| | 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 Revision:

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

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:** 30-10-2020 **sheet Nr.** 1/4
Michał Dąbicz

Type

FT-074 B LED - front position lamp

light source

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

sheet description

general drawing / lamp functions / assembly on vehicle
electrical parameters

This drawing is a part of the application for approval

Material used in manufacturing :

- lampshade PC clear transparent
- housing elastic SEBS black
- PCB FR4
- 1 LED white light color
- potting compound epoxy resin

FRISTOM

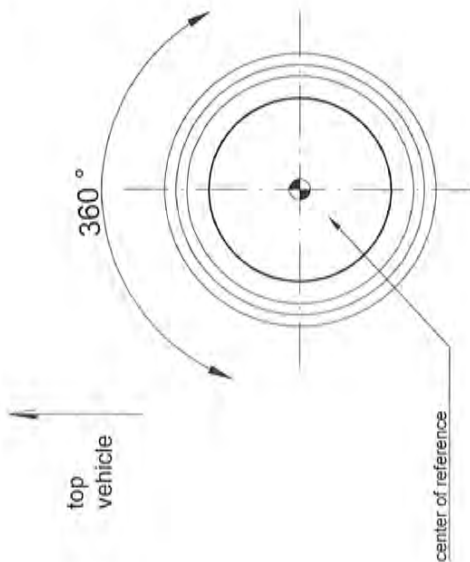
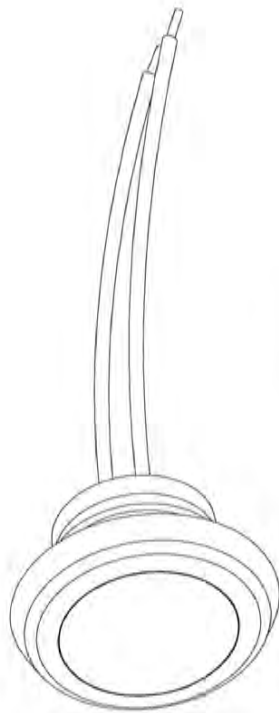
Spółka z ograniczoną odpowiedzialnością Sp. k.
86-014 SICIENKO, ul. Przemysłowa 5
tel. 52 360 90 50

www.fristom.com.pl

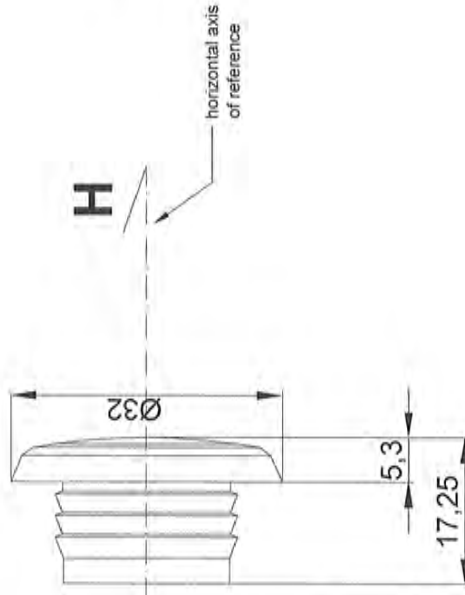
NIP 5542926937 REGON 341640907

MICHAŁ DĄBICZ

Dąbicz Michał



forward
driving
direction



suggested fixing hole in carriage

Manufacturer

FRISTOM Spółka z ograniczoną odpowiedzialnością Sp.K.
86-014 Sicienka / Polska
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Tel.: +48 52 340 90 51, Fax: +48 52 327 75 41



Drawn by: **Date:**

Michał Dybicz 30-10-2020

sheet Nr.

2/4

Type

FT-074 B LED - front position lamp

light source

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

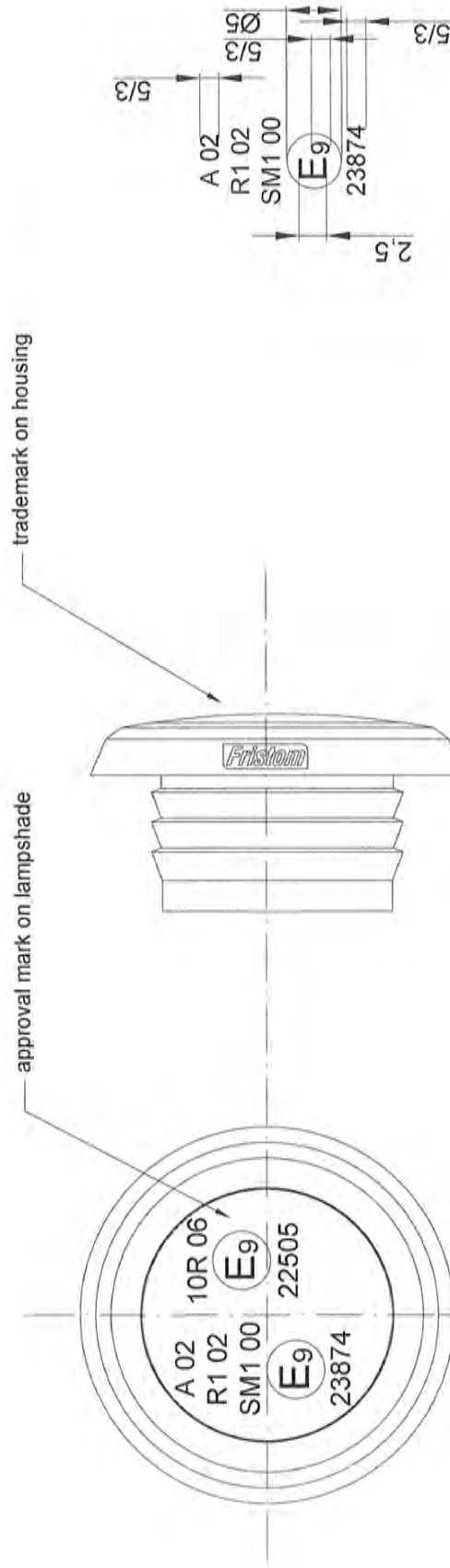
sheet description

approval markings

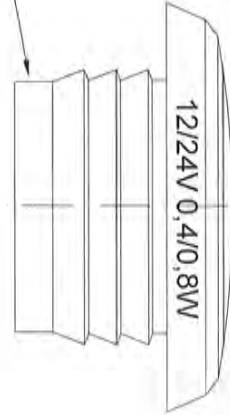
This drawing is a part of the application for approval

Material used in manufacturing :

- lampshade PC clear transparent
- housing - elastic SEBS black
- PCB FR4
- 1 LED white light color
- potting compound epoxy resin



voltage and wattage marking on housing



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 341640907

MICHAŁ DYBICZ

Dyplom

Manufacturer

FRISTOM Spółka z ograniczoną odpowiedzialnością Sp.k.
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Tel.: +48 52 360 90 51, Fax: +48 52 327 75 41



Drawn by: Date: 30-10-2020
Michał Dybicz

sheet Nr. 3 / 4

Type

FT-074 B LED - front position lamp

light source

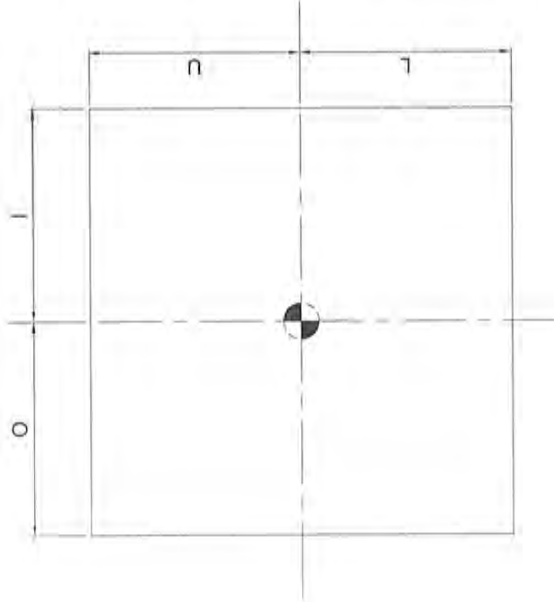
LIGHT SOURCE : LED CHIP SMD chip mounted
1 LED white light color

sheet description

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

Material used in manufacturing :

- lampshade PC clear transparent
- collimator lens - PC clear transparent
- PCB FR4
- 3 LED's blue light color
- housing ABS or PA black
- potting compound epoxy resin



lighting surface

| function | U (upper limit) (mm) | L (lower limit) (mm) | O (outer limit) (mm) | I (inner limit) (mm) |
|----------|----------------------|----------------------|----------------------|----------------------|
| A | 9,5 | 9,5 | 9,5 | 9,5 |
| | | | | |
| | | | | |

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 DYBIEZ

Manufacturer

FRISTOM Spółka z ograniczoną odpowiedzialnością Sp.K.
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Tel.: +48 52 360 90 51, Fax: +48 52 327 75 41



Drawn by:

Date:

30-10-2020

sheet Nr.

4/4

Michał Dybicz

Type

FT-074 B LED - front position lamp

light source

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

sheet description

variant tradenames and descriptions

This drawing is a part of the application for approval

Material used in manufacturing :

- lampshade PC clear transparent
- housing elastic SEBS black
- PCB FR4
- 1 LED white light color
- potting compound epoxy resin

| | |
|------------------------|---|
| FT-074 B LED | FT-074 B LED Clearance Lamp LED 12-36V, white, round, recessed, cable 0,15m. |
| FT-074 B LED Mxx | FT-074 B LED Clearance Lamp LED 12-36V, white, round, recessed, cable Mxx. |
| FT-074 B LED QS075 | FT-074 B LED Clearance Lamp LED 12-36V, white, round, recessed, cable QS075 ended. |
| FT-074 B LED QS150 | FT-074 B LED Clearance Lamp LED 12-36V, white, round, recessed, cable QS150 ended. |
| FT-074 B LED QS075 Mxx | FT-074 B LED Clearance Lamp LED 12-36V, white, round, recessed, cable Mxx QS075 ended. |
| FT-074 B LED QS150 Mxx | FT-074 B LED Clearance Lamp LED 12-36V, white, round, recessed, cable Mxx QS150 ended. |
| FT-074 C LED | FT-074 C LED Clearance Lamp LED 12-36V, red, round, recessed, cable 0,15m. |
| FT-074 C LED Mxx | FT-074 C LED Clearance Lamp LED 12-36V, red, round, recessed, cable Mxx. |
| FT-074 C LED QS075 | FT-074 C LED Clearance Lamp LED 12-36V, red, round, recessed, cable QS075 ended. |
| FT-074 C LED QS150 | FT-074 C LED Clearance Lamp LED 12-36V, red, round, recessed, cable QS150 ended. |
| FT-074 C LED QS075 Mxx | FT-074 C LED Clearance Lamp LED 12-36V, red, round, recessed, cable Mxx QS075 ended. |
| FT-074 C LED QS150 Mxx | FT-074 C LED Clearance Lamp LED 12-36V, red, round, recessed, cable Mxx QS150 ended. |
| FT-074 Z LED | FT-074 Z LED Clearance Lamp LED 12-36V, yellow, round, recessed, cable 0,15m. |
| FT-074 Z LED Mxx | FT-074 Z LED Clearance Lamp LED 12-36V, yellow, round, recessed, cable Mxx. |
| FT-074 Z LED QS075 | FT-074 Z LED Clearance Lamp LED 12-36V, yellow, round, recessed, cable QS075 ended. |
| FT-074 Z LED QS150 | FT-074 Z LED Clearance Lamp LED 12-36V, yellow, round, recessed, cable QS150 ended. |
| FT-074 Z LED QS075 Mxx | FT-074 Z LED Clearance Lamp LED 12-36V, yellow, round, recessed, cable Mxx QS075 ended. |
| FT-074 Z LED QS150 Mxx | FT-074 Z LED Clearance Lamp LED 12-36V, yellow, round, recessed, cable Mxx QS150 ended. |

where X is number from 0 till 9

* where x is a number between 0-9

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tel. 52 360 90 50
www.fristom.com.pl
REGON 341640907
MICHAŁ DYBICZ

PC20090308

Manufacturer

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



Drawn by: **Date:** 30-10-2020

sheet Nr. 1/4

Type

FT-074 C LED - rear position lamp

Material used in manufacturing :

- lampshade PC clear transparent
- housing elastic SEBS black
- PCB FR4
- 1 LED red light color
- potting compound epoxy resin

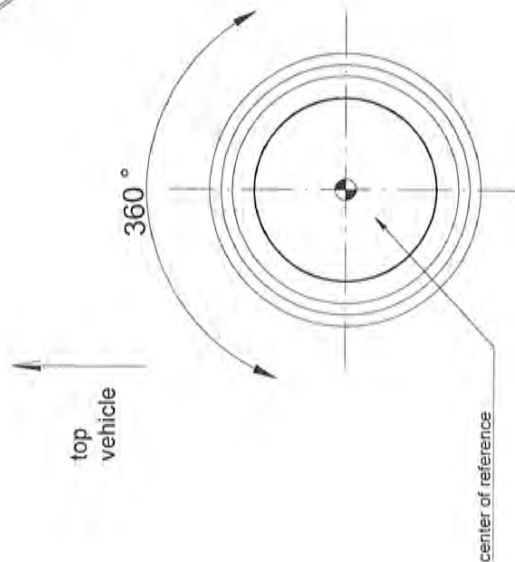
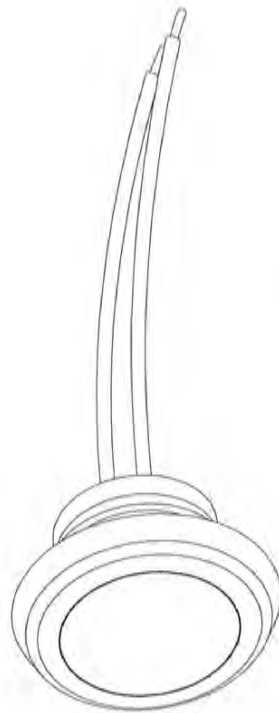
light source

LIGHT SOURCE : LED CHIP SMD chip mounted
1 LED red light color

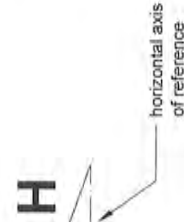
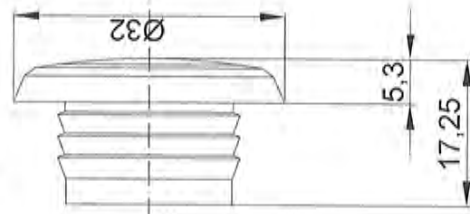
sheet description

general drawing / lamp functions /assembly on vehicle
electrical parameters

This drawing is a part of the application for approval



forward
driving
direction



suggested fixing hole in carriage

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 DYBIECZ

Dupin

Electrical parameters:
12V/24V - 0,5W

1 LED (red light color)

IBIADA PC20090308

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 30-10-2020

sheet Nr.

2/4

Type

FT-074 C LED - rear position lamp

light source

LIGHT SOURCE : LED CHIP SMD chip mounted
1 LED red light color

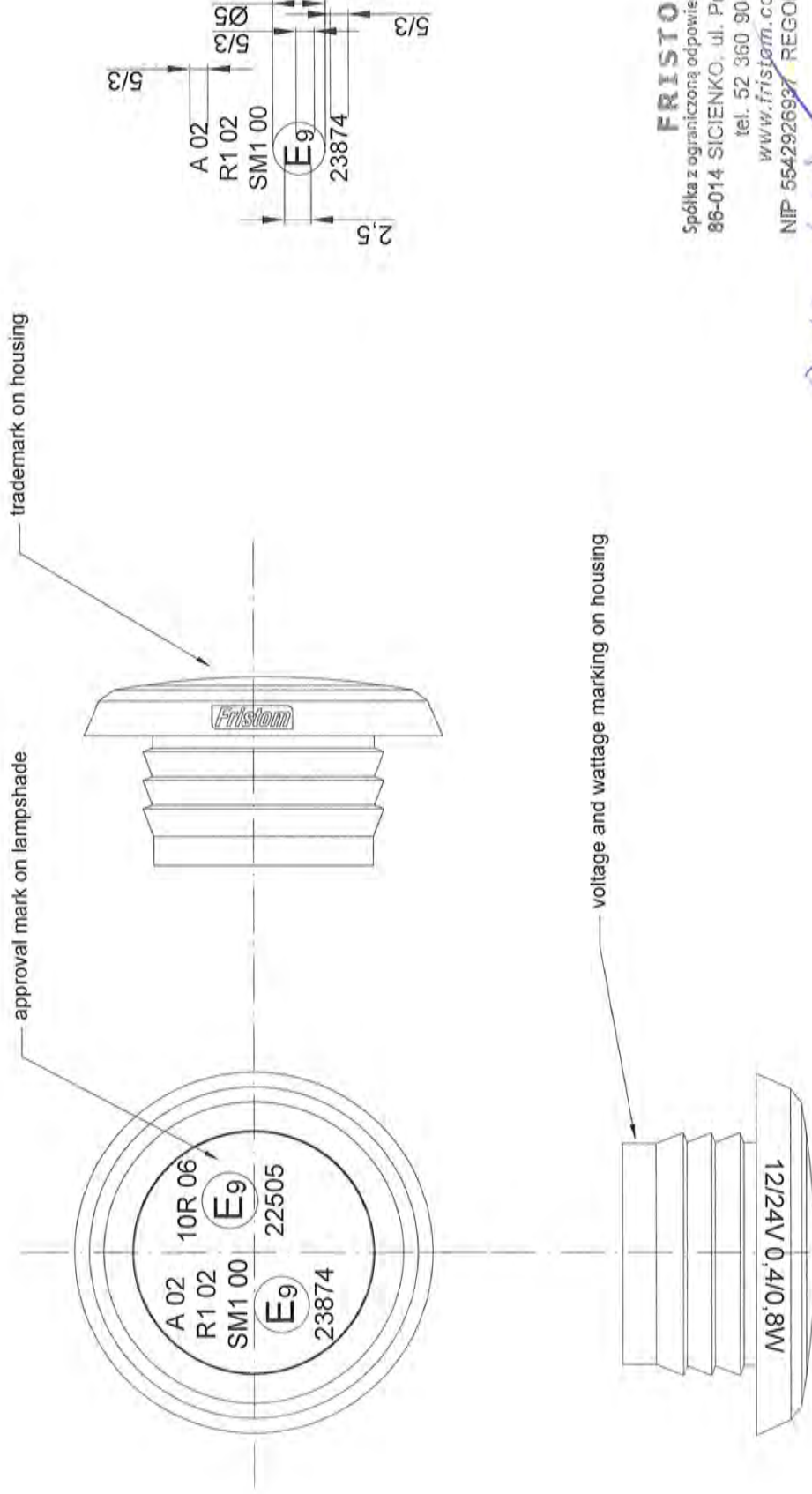
sheet description

approval markings

This drawing is a part of the application for approval

Material used in manufacturing :

- lampshade PC clear transparent
- housing elastic SEBS black
- PCB FR4
- 1 LED red light color
- 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

MICHAŁ DYBICZ

İİİÄÄÄ PC20090308

Manufacturer

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



Drawn by: Date: sheet Nr.

Michał Dylisz 30-10-2020 3/4

Type

FT-074 C LED - rear position lamp

light source

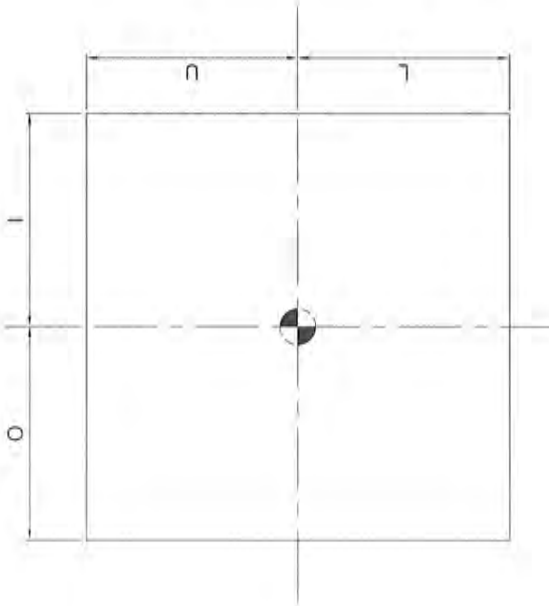
LIGHT SOURCE : LED CHIP SMD chip mounted
1 LED red light color

sheet description

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

Material used in manufacturing :

- lampshade PC clear transparent
- housing elastic SEBS black
- PCB FR4
- 1 LED red light color
- potting compound epoxy resin



lighting surface

| function | U _(upper limit) [mm] | L _(lower limit) [mm] | O _(outer limit) [mm] | I _(inner limit) [mm] |
|----------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| R1 | 9,5 | 9,5 | 9,5 | 9,5 |
| | | | | |
| | | | | |

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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**Drawn by:**

Michał Dybicz

Date:

30-10-2020

sheet Nr.

4/4

Type**FT-074 C LED - rear position lamp****Material used in manufacturing :**

- lampshade PC clear transparent
- housing elastic SEBS black
- PCB FR4
- 1 LED red light color
- potting compound epoxy resin

light source

LIGHT SOURCE : LED CHIP SMD chip mounted
1 LED red light color

sheet description

variant tradenames and descriptions

This drawing is a part of the application for approval

| | |
|------------------------|---|
| FT-074 B LED | FT-074 B LED Clearance Lamp LED 12-36V, white, round, recessed, cable 0,15m. |
| FT-074 B LED Mxx | FT-074 B LED Clearance Lamp LED 12-36V, white, round, recessed, cable Mxx. |
| FT-074 B LED QS075 | FT-074 B LED Clearance Lamp LED 12-36V, white, round, recessed, cable QS075 ended. |
| FT-074 B LED QS150 | FT-074 B LED Clearance Lamp LED 12-36V, white, round, recessed, cable QS150 ended. |
| FT-074 B LED QS075 Mxx | FT-074 B LED Clearance Lamp LED 12-36V, white, round, recessed, cable Mxx QS075 ended. |
| FT-074 B LED QS150 Mxx | FT-074 B LED Clearance Lamp LED 12-36V, white, round, recessed, cable Mxx QS150 ended. |
| FT-074 C LED | FT-074 C LED Clearance Lamp LED 12-36V, red, round, recessed, cable 0,15m. |
| FT-074 C LED Mxx | FT-074 C LED Clearance Lamp LED 12-36V, red, round, recessed, cable Mxx. |
| FT-074 C LED QS075 | FT-074 C LED Clearance Lamp LED 12-36V, red, round, recessed, cable QS075 ended. |
| FT-074 C LED QS150 | FT-074 C LED Clearance Lamp LED 12-36V, red, round, recessed, cable QS150 ended. |
| FT-074 C LED QS075 Mxx | FT-074 C LED Clearance Lamp LED 12-36V, red, round, recessed, cable Mxx QS075 ended. |
| FT-074 C LED QS150 Mxx | FT-074 C LED Clearance Lamp LED 12-36V, red, round, recessed, cable Mxx QS150 ended. |
| FT-074 Z LED | FT-074 Z LED Clearance Lamp LED 12-36V, yellow, round, recessed, cable 0,15m. |
| FT-074 Z LED Mxx | FT-074 Z LED Clearance Lamp LED 12-36V, yellow, round, recessed, cable Mxx. |
| FT-074 Z LED QS075 | FT-074 Z LED Clearance Lamp LED 12-36V, yellow, round, recessed, cable QS075 ended. |
| FT-074 Z LED QS150 | FT-074 Z LED Clearance Lamp LED 12-36V, yellow, round, recessed, cable QS150 ended. |
| FT-074 Z LED QS075 Mxx | FT-074 Z LED Clearance Lamp LED 12-36V, yellow, round, recessed, cable Mxx QS075 ended. |
| FT-074 Z LED QS150 Mxx | FT-074 Z LED Clearance Lamp LED 12-36V, yellow, round, recessed, cable Mxx QS150 ended. |

where X is number from 0 till 9

* where x is a number between 0-9

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Drawn by: **Date:**

Michał Dybicz 30-10-2020

sheet Nr.

1/4

Type

FT-074 Z LED - side marking lamp

light source

LIGHT SOURCE : LED CHIP SMD chip mounted
1 LED amber light color

sheet description

general drawing / lamp functions /assembly on vehicle
electrical parameters

This drawing is a part of the application for approval

Material used in manufacturing :

- lampshade PC clear transparent
- housing elastic SEBS black
- PCB FR4
- 1 LED amber light color
- potting compound epoxy resin

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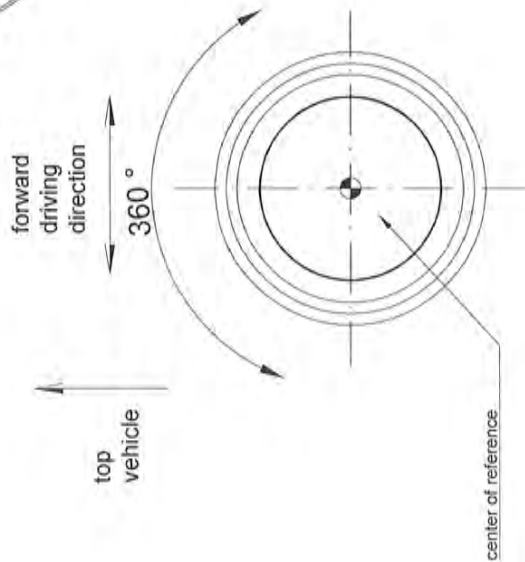
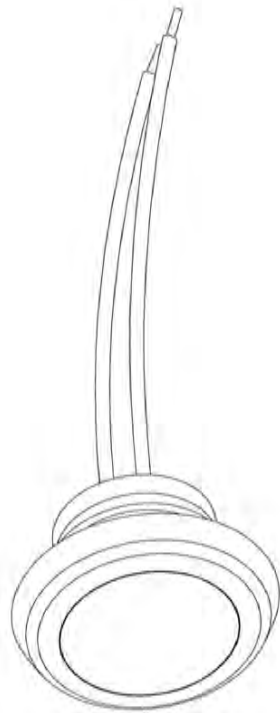
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tel. 52 360 90 50

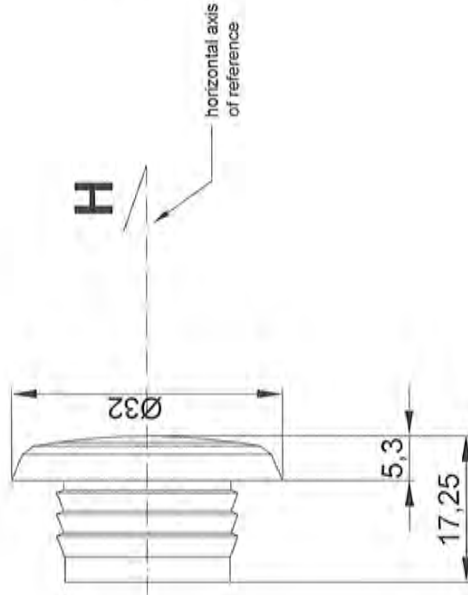
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REGON 341640907

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left or right outside of vehicle



suggested fixing hole in carriage

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Drawn by: Michał Dybicz
Date: 30-10-2020
sheet Nr.: 2 / 4

Type

FT-074 Z LED - side marking lamp

light source

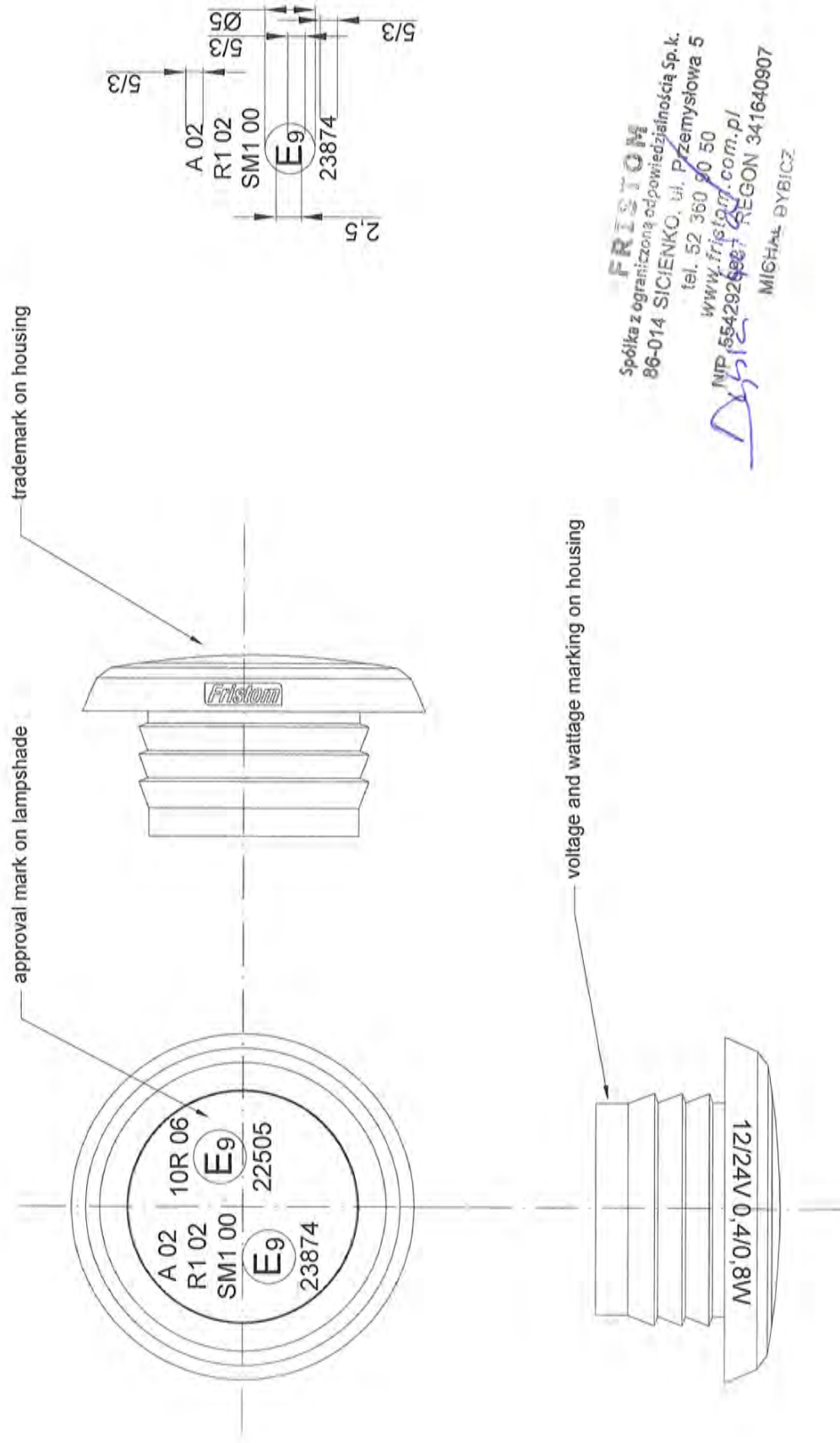
LIGHT SOURCE : LED CHIP SMD chip mounted
1 LED amber light color

sheet description

approval markings
This drawing is a part of the application for approval

Material used in manufacturing :

- lampshade PC clear transparent
- housing elastic SEBS black
- PCB FR4
- 1 LED amber light color
- potting compound epoxy resin



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Drawn by: **Date:** **sheet Nr.**

Michał Dybicz 30-10-2020 3/4

Type

FT-074 Z LED - side marking lamp

light source

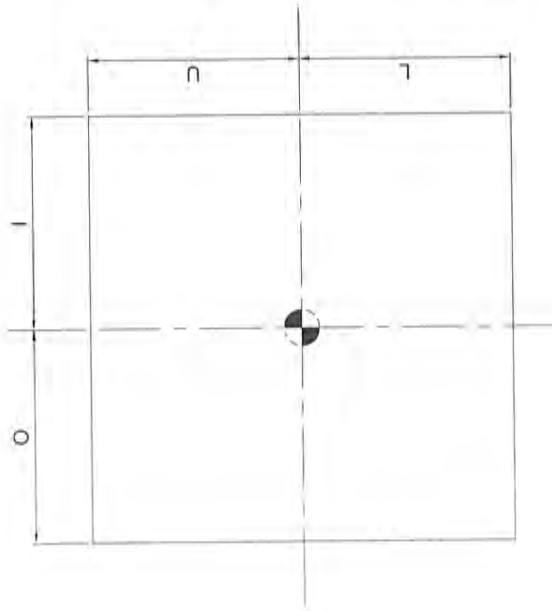
LIGHT SOURCE : LED CHIP SMD chip mounted
1 LED amber light color

sheet description

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

Material used in manufacturing :

- lampshade PC clear transparent
- housing elastic SEBS black
- PCB FR4
- 1 LED amber light color
- potting compound epoxy resin



lighting surface

| function | U (upper limit) (mm) | L (lower limit) (mm) | O (outer limit) (mm) | I (inner limit) (mm) |
|----------|----------------------|----------------------|----------------------|----------------------|
| SM1 | 9,5 | 9,5 | 9,5 | 9,5 |
| | | | | |
| | | | | |

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Drawn by:

Date:

30-10-2020

sheet Nr.

4/4

Michał Dybicz

Type

FT-074 Z LED - side marking lamp

Material used in manufacturing :

- lampshade PC clear transparent
- housing elastic SEBS black
- PCB FR4
- 1 LED amber light color
- potting compound epoxy resin

light source

LIGHT SOURCE : LED CHIP SMD chip mounted
1 LED amber light color

sheet description

variant tradenames and descriptions

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| FT-074 B LED QS075 Mxx | FT-074 B LED Clearance Lamp LED 12-36V, white, round, recessed, cable Mxx QS075 ended. |
| FT-074 B LED QS150 Mxx | FT-074 B LED Clearance Lamp LED 12-36V, white, round, recessed, cable Mxx QS150 ended. |
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| FT-074 C LED Mxx | FT-074 C LED Clearance Lamp LED 12-36V, red, round, recessed, cable Mxx. |
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| FT-074 Z LED QS075 Mxx | FT-074 Z LED Clearance Lamp LED 12-36V, yellow, round, recessed, cable Mxx QS075 ended. |
| FT-074 Z LED QS150 Mxx | FT-074 Z LED Clearance Lamp LED 12-36V, yellow, round, recessed, cable Mxx QS150 ended. |

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Dybicz

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