Your specialist for
SAUNA TECHNOLOGY & WELLNESS
DOOR HINGES & GAS-SAUNA HEATERS

ELSÄSSER GmbH
Alpenstraße 48
86159 Augsburg/Germany
Tel. +49 (0)821 25797-0
Fax +49 (0)821 25797-40
info@elsaesser.de
www.eliga.com

Operating instruction for LED-coloured-light projector with cable bundle and end sleeves

LED-coloured-light projector 18 W with radio-remote control
Art.-Nr. 70082

Ready-made cable bundles made of glass- or plastic-fibre
Art.-Nr. 7010
Glass-fibre cable with sheath heat-resistant up to 120 °C for sauna
Plastic-fibre with or without sheath heat-resistant up tp 85 °C für for steam bath and infrared cabin

End sleeves for glass- or plastic-fibre cables
Art.-Nr. 7029

Complete set with 40 light spots suitable for sauna cabins up to approx. 4m²
Art.-Nr. 70095
consisting of: LED-coloured-light-projector incl. radio-remote control art.-no. 70082 and ready-made cable bundle(glass-fibre Ø 1.5 mm with sheath, 20 cables each with length 2.0 m and 20 cables each with length 1.4 m)

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1. Introduction

Read the following instructions carefully and pay attention to all safety precautions. Doing so will avoid bodily injury and damage to property.

2. Symbols used in operating manual

Symbols and key words are used in these instructions. These ahve the following meaning:

Warning
Warns you against dangers leading to serious bodily injuries or death.

Attention
Mild injuries or property damage could occur if you do not adhere to these precautions.

Tips/additional information

3. Terms of use according to regulations

Alongside suitable light conductor cables (ready-made cable bundles made from plastic/fibre glass) the LED-coloured-light projector is designed to achieve lighting effects and accentuated lighting in sauna cabins, infra-red cabins or steam baths. Maximum permissible temperatures as set out in the technical date (page 13) must be adhered to

Delivered components may not be used in swimming pools or outside.

Under no circumstances should you open any of the devices delivered. Otherwise all liability and warranty claims will cease to exist.

Under the terms of use according to regulations, please follow all precautions as laid out in these instructions.

The company Elsässer GmbH assumes no responsibility for damages caused by incorrect usage.

4. Scope of delivery

Check whether equipment has been delivered completely and without damages.

A) LED-coloured-light projector art.-no.70082:

B) radio-remote control

C) Wall power supply 24 V:

D) cable bundle Art.-Nr. 7010 (optional):

E) <u>end sleeves for cable bundle (optional):</u>

Art.-Nr. 7029
End sleeve crystal glass

Art.-Nr. 7029
End sleeve spherical lens

Art.-Nr. 7029
End sleeve light point

F) <u>Operating instruction</u>

Please contact your specialist dealer if components are missing or damaged

5. Assembly

5.1 LED-coloured-light projector with wall power suppy and cable bundle

The LED-coloured-light projector is equipped with anchor borings, which allow the device tob e screwed into plase if needed. Mounting position is user-defined.

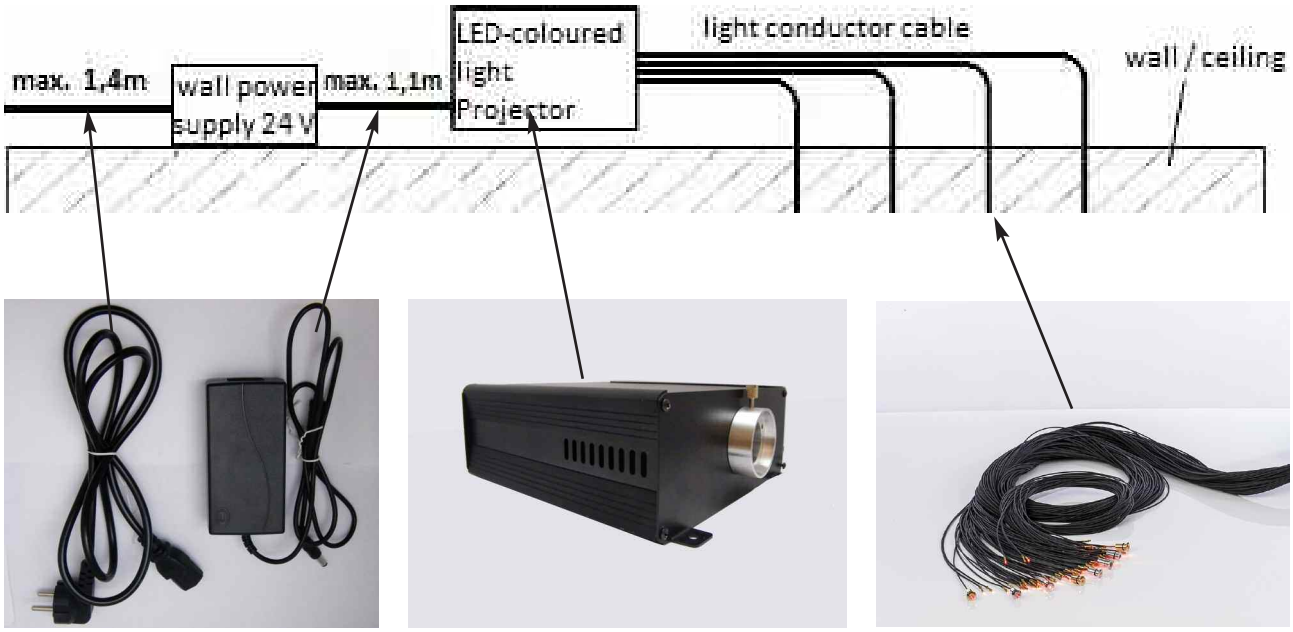
Danger of overheating

Mount wall power supply an dLED-coloured-light projector outside oft he sauna/infrared/steam bath Cabins.

Attention risk of water damage

Do not mount wall power supply and LED-coloured-light projector in damp or wet areas

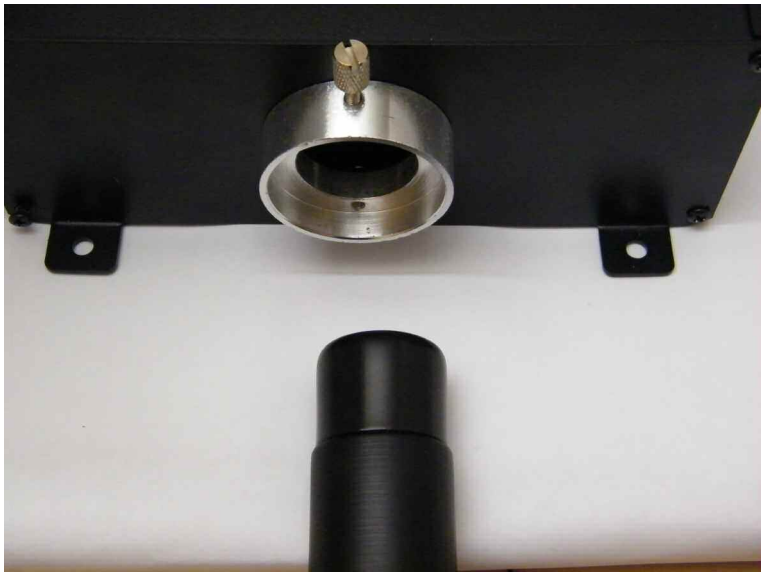
Install the LED-coloured-light projector and wall power supply according to the following sketches and connect the wall power supply to the designated circuit point.



Position the LED-coloured-light projector as near tot he sauna/infrared/steam-bath cabins as possible. Doing so avoids using longer cables and achieves ideal light efficiency.

5.2 Connecting the cable bundles tot he LED-coloured-light projector

Place the collective end oft he ready-made cable bundle in the designated opening of the projector and secure via screw on the surface oft he projector



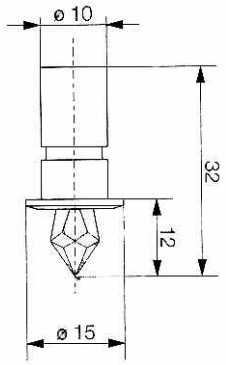
5.3 Attaching the light conductor cable / end sleeves in the cabin ceiling

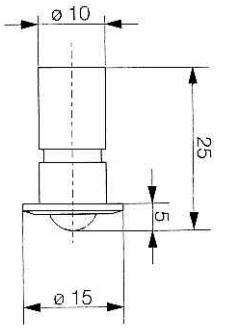
Light conductor cables can be secured in the cabin ceilings either with or without the end sleeves.

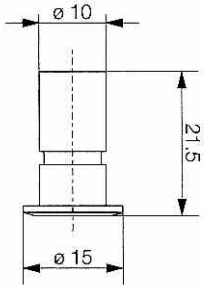
Complying with th min. bending radius (min. 3 x cable diameter).
When istalling the light conductor cables to avoid damaging the cables and to ensure ideal yield of light.

Assembly with end sleeves

1. Pre-drill the cabin ceiling.
2. Place the end sleeves on the light conductor cables.
3. Glue end sleeves in the ceiling (in steam baths, seal with silicone as well).
4. Kleben Sie die Endhülse in die Decke (im Dampfbad zusätzlich mit Silikon abdichten).







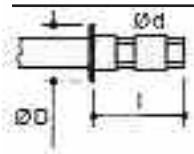
End sleeve crystal glass End sleeve spherical lens End sleeves light point

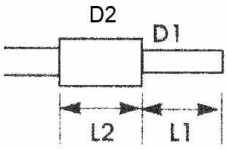
All three end sleeves are avaiable with gold-plated or chromed case

Assembly without end sleeves

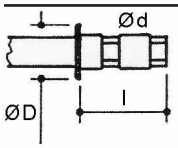
1. Pre-drill the cabin ceiling.
2. Insert the light conductor cables flush in the ceiling
3. Secure cable with silicone.

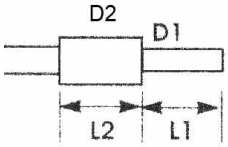
Overview crimp barrel fibre glass bundle

Crimp barrel	cable-Ø	1,1/1,3 mm	1,5/1,8 mm	2,4 mm	3,3 mm	4,3 mm
	d	3	3,5	4,5	5,5	7,5
	l	13	13	13	15	17
	D	4,7	5	7,5	7,5	9,5

Turning barrel	cable-Ø	4,3/5,0/6,0 mm
	D1	8
	D2	12
	L1	17
	L2	15

Overview crimp barrel plastic fibre bundle

Crimp barrel	cable-Ø	1,0 mm	1,5 mm	2,3 mm	3,3 mm	4,0 mm
	d	3	3,5	4,5	5,5	7,5
	l	13	13	13	15	17
	D	4,7	5	7,5	7,5	9,5

Turning barrel	cable-Ø	5,1/6,0 mm	8,0 mm
	D1	8	10
	D2	12	14
	L1	17	17
	L2	15	15

6. Electrical connection

The LED-coloured-light projector is connected to the electronic network using the included wall power supply.

Attention

Risk of damage caused by water

Do not expose the wall power supply to splash or dripping water.

<u>Two connection variants are possible:</u>

<u>1. Connection to an electrical socket</u>

Plug the power supply into an easily-accessible socket to allow you to disconnect at any time.

<u>2. Connection to the sauna control's light switch</u>

Warning

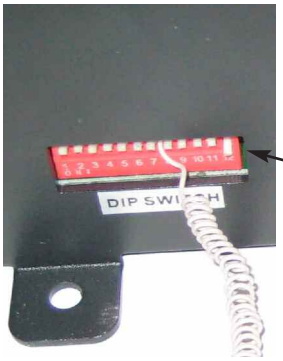
Electrical current can cause mortal danger

Any work on the sauna's control system must be carried out by a licensed, qualified electrical engineer.

Using an extension cable, connect the power supply tot he light switch of the sauna's control system. Pay attention to maximum power input.

7. Initial operation

Turn the LED-coloured-light projector on by plugging the wall power supply into the plug socket or using the light switch on the sauna's control system.



Dip Switch:
The switch number 12 must be at the bottom, otherwise the light projector can not convert the signals from the remote control!

8. Radio-remote-control

Settings can not be made on the LED-coloured-light projector. Operating is exclusively done with the radio-remote-control.

Different functions can be controlled using the radio-remote-control.Line of sight is not necessary

Radio transmission

Walls and ceilings, as well as disturbances caused by other electrical devices, can influence radio signals. A range of approx. 5-10 m ensures optimal conditions. Radio transmissions can someti mes beimproved by turning the remote control 90°.

Battery information

The radio-remote-control operates using a temperature-resistant, special battery. This is firmly solde red in and does not need replacing
Type designation of the battery: CR2025

Operating temperature

STOP

The radio-remote-control is suitable for maximum continous temperatures of 60°C!
Attention danger caused by battery acid/risk of explosion at higher temperatures!

Save engergy

Only leave the LED-coloured-light projector in standyby-mode if using regularly.
Unplug if not using the LED-coloured-light projector for a long period of time.

Switching on/off

Push the button to turn LED-coloured-light projector on

Push the button to turn LED-coloured-light projector off

Single colours:

The following colours can be programmed:

WHITE	YELLOW	RED	PURPLE	BLUE	CYAN	GREEN	ORANGE
White	Yellow	Red	Purple	Blue	Cyan	Green	Orange

Colours change programm:

Auto JUMP3 FADE3 FLASH JUMP7 FADE7 The following colours can be programmed:

JUMP3 7-colours change abruptly after approx. 20 seconds per colour

FADE3 7-colours change fluently after approx. 20 seconds per colour

FLASH 7-colours change abruptly after approx. 10 seconds per colour

JUMP7 7-colours change abruptly after approx. 60 seconds per colour

FADE7 7-colours change fluently after approx. 120 seconds per colour

+ Speed Increase colour-change-speed (3 steps, each accelerates the colour change by approx. 2 seconds.)

- Speed Reduce colour-change-speed (3 steps, each reduces the colour change by approx. 2 seconds.)

Light intensity:

Press the button to increase the light intensity in 5 steps 20/40/60/80/100%

Press the button to reduce the light intensity in 5 steps 100/80/60/40/20%

If the LED-coloured-light projector is switched off with the radio-remote-control, the same program me continues to run when you switch on again.
If the LED-coloured-light projector was switched off on the main switch, only the last colour that was set before will be displayed.

9. Repairs

Warning

Mortal danger can be caused by electrical currents

Repairs must only be carried out by a licensed, qualified electrical engineer.
Unplug from the mains before starting.

If the LED-coloured-light projector is damaged, send them to your specialist dealer with an exact description of the fault.

10. Technical data

LED-coloured-light projecotr
Dimensions: WxHxD approx. 200x85x250 mm
Weight: approx.. 2,3 kg
Power inout: 18 W
Permissible surrounding temperature: +10 °C up to +45 °C

Wall power supply
Dimensions: WxHxD 100x75x92 mm
Weight: approx.. 370 g
Primary: 100-240 V~50-60 Hz, 2-pin Euro plug
Permissible surrounding temperature: +10 °C up to +40 °C

Radio-remote-control
Dimensions: WxHxD approx.. 85x50x6 mm
Weight: approx. 20 g
Permissible surrounding temperature: +10 °C up to +60 °C
Material of casing: plastic
Battery designation type: Lithium button cell CR2025