



## Bag o Light Air 2000

with power supply PS50 II

### Functional description

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Caution! Operate the device only after having read and **understood** the operating instructions!

## **Bag o Light Air 2000 with power supply PS50 II**

The light system Bag o Light is a versatile, easy to use and fast to set up soft light. The sewed and glued light sack makes a very homogeneous light.

The sack is filled with normal air. Once it is blown up it keeps the position up to 8 hours. In this time the device is absolutely noiseless. In shooting breaks it can be refilled manual or automatically.

The air is provided by a compressor. The air pressure inside the sack reaches a maximum of only 50 mBar. This means a danger because of explosion does not exist.

The system is available for different lamp sizes and in different lengths:

1,2kW	1,5m	2m						Ø35cm
2,5kW / 4kW	2m	3m	5m	6m	10m*	12m*	14m*	Ø44cm
6kW	6m	9m*	12m*	20m*				Ø55cm
12kW	6m							Ø62cm
18kW (fresnel)	5m							Ø75cm

\* These sizes require two lamps. One on each side.

Because of the different sizes, the user has to possibility to adapt the system to different spatial conditions.

The light charakteristik can be adapted with accessories like CTO glas plates, black cover, mechanical dimmer shutter and color changer.

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# Safety and operating instructions

**Before opening the power supply, it has to be disconnected from the electrical mains !**

Operating position is horizontal. It must be operated only in this position.

Admissible ambient temperature: 0 to +40 degree Celsius

The vents must not be blocked or covered.

The device is not designed for outside use. It must be operated in clean and dry rooms.

The device must be kept dry. In case of water condensation a acclimation time of 2 hours is necessary until acclimatisation is reached.

**Power input power supply:** AC 100- 230V +/- 10%, 50/60Hz

Power output to control unit: max. 24V DC

The Bag o Light base ring is getting very hot during operation because of the lamp heat. Please let it cool down for at least one hour before touching it.

First set up the whole Bag o Light system and make sure that the sack is blown up before switching on the lamp.

Make sure that the bag, especially in unfilled condition, does not touch the hot lamp.

**A spot lense must be used between lamp and Bag o Light base ring.**

Maximum admissible air pressure (of the compressor) is 6 Bar.

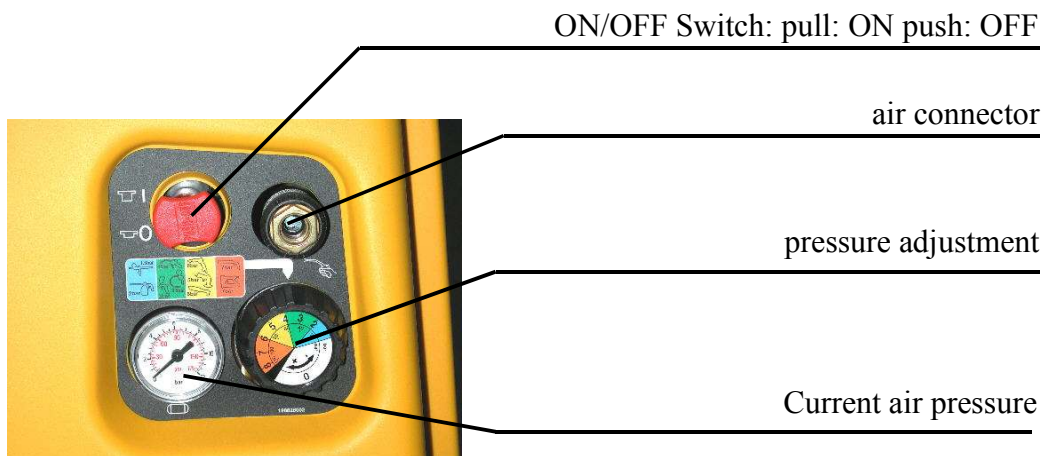
When it has to be assumed that a safe operation is no longer possible, the equipment must be switched off immediately and be secured against unintended operation.

This is the case when:

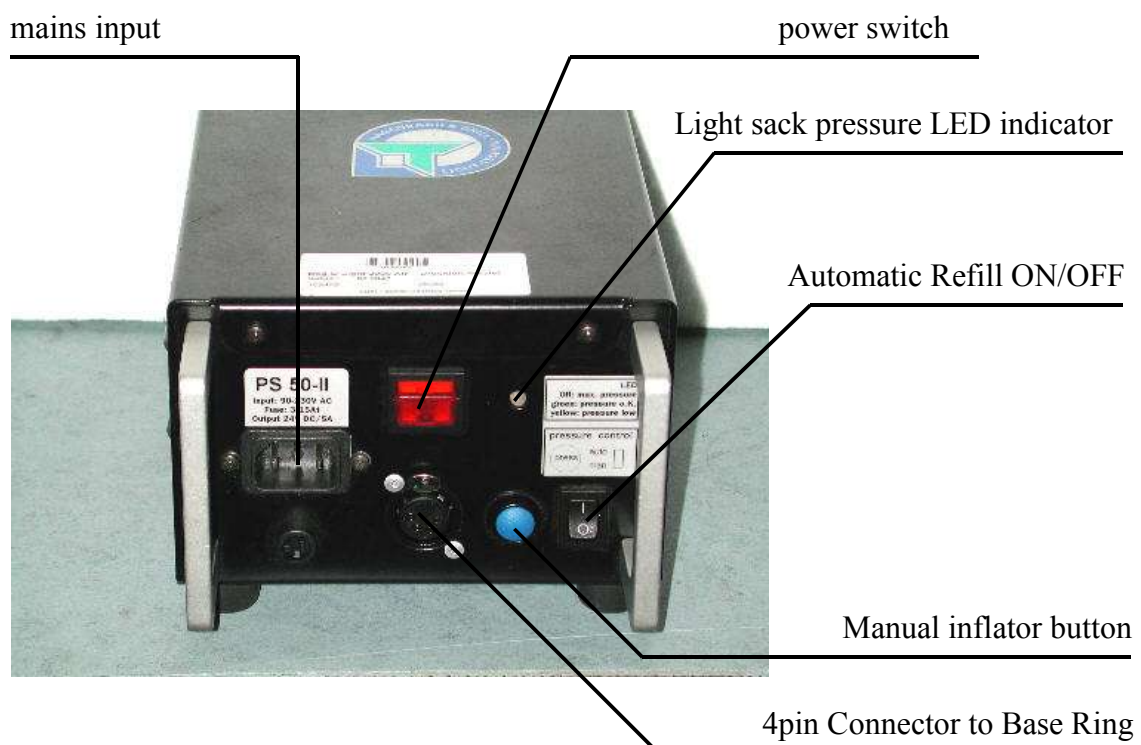
- the device shows visible damages
- the device got wet (also rain)
- the device fell down
- the device does not work properly although the operating instructions were obeyed
- the device is not functional
- parts of the device are loose or slackened
- connecting lines show visible damages

Prior to starting the equipment the user must check the usefulness of the device for its intended purpose. In particular, Licht-Technik shall decline any liability for damages of the equipment as well as for consequential damages resulting of the device being used inappropriately, of inexpert installation, incorrect starting, use and of noncompliance with the valid safety regulations.

## User interface elements Compressor



## User interface elements power supply



# User interface elements base ring

Light sack pressure display



Manual inflator button

4pin output possibility  
for another Bag o Light  
system  
OR  
Inflator fan  
connector



4pin Input from  
Power supply

Inflator valve for inflator fan



air pressure connector

# Cabling Bag o Light



# General function

At the Bag o Light base ring, the momentary sack pressure in mBar is displayed. Please do not change the settings at this instrument !!!

These settings are measure values for the electronic, which prevents an overpressure in the light sack!

With the buttons at the power supply and/or the base ring it is possible to fill the bag manually up to the maximum of about 35 mBar. If more than one systems are driven by a power supply, all systems will be filled up to the maximum.

An overpressure can not occur.

When the system is set up and the bag is filled, the pressure can reach more than the maximum because of the lamp heat. This is absolutely normal and oscillates itself.

The automatic switch can be used to fill up the bag automatically when the minimum pressure is reached. You should turn this feature off for a noiseless operation. On the other hand it keeps the system in position during shooting breaks or over night if you switch it on.

The built in, two color LED indicator gives a fast overview about the pressure inside the bag. The LED can signal green and red:



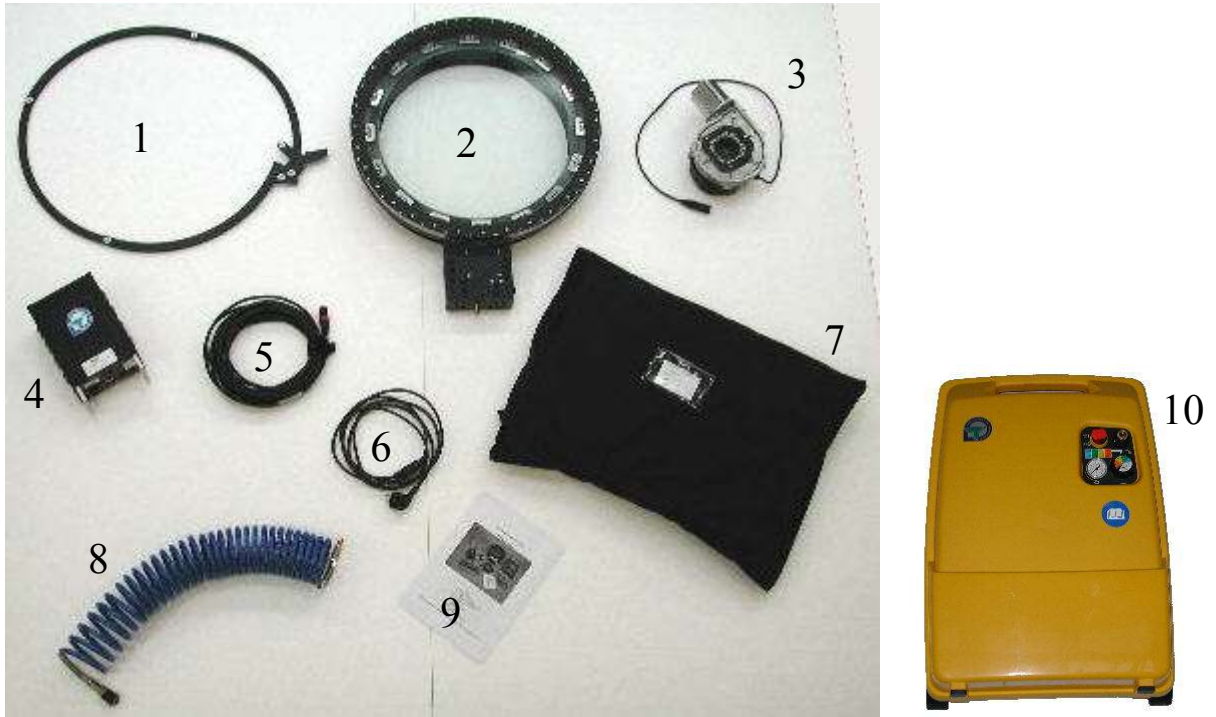
LED shines green: air pressure in bag is okay. It is between minimum and maximum.



LED shines red: Air pressure is fallen under the minimum. Now you should refill either by hand or, if the automatic is switched to „ON“, the system will be refilled automatically.

# Set up instructions system

## Parts inventory



- 1 Ring clamp
- 2 Pressure cowling
- 3 Inflator fan
- 4 Power supply PS50 II
- 5 XLR-cable 4pin
- 6 Power cord
- 7 Light bag
- 8 Air hose
- 9 Operating instructions
- 10 Compressor

## **Step 1**

Mount the Bag o Light base ring at the lamp



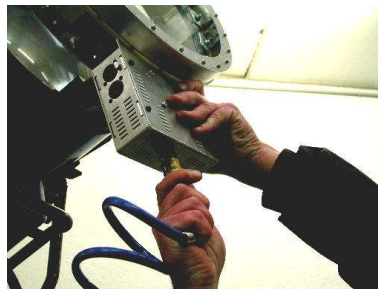
If you use a mechanical dimmer shutter put it between the lamp and the base ring. (Please refer to „Set up instructions accessories“, page 15).

## **Step 2**

Connect the compressor (picture 1) with the base ring (picture 2) via the air hose.



picture 1



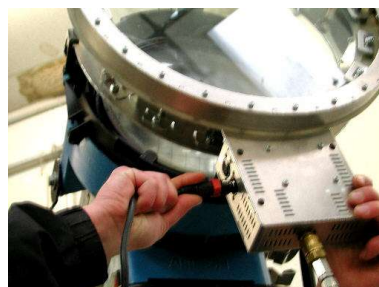
picture 2

## **Step 3**

Connect the power supply (picture 3) with the base ring (picture 4) via the 4pin XLR connector cable.



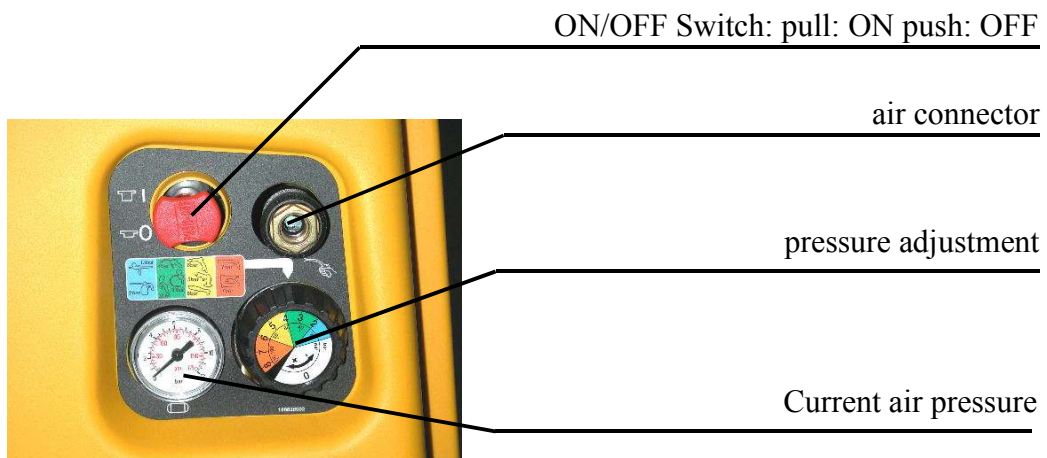
picture 3



picture 4

## **Step 4**

Connect the compressor with the electrical mains. The power cord is at the back behind a flap. Switch the compressor on by pulling the red knob.



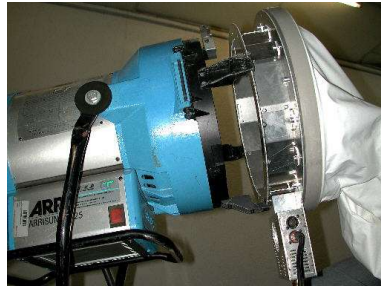
If not already adjusted, please adjust the compressor pressure to 6 Bar. For increasing turn the knob against clockwise direction. For decreasing turn it in clockwise direction.

## **Step 5**

Now the light sack can be installed at the base ring. Stretch the rubber lip of the bag over the opening of the ring (picture 5). Align seams of bag so one side aligns with air cap. (picture 6). Make sure that the seam of the sack is in top position. A helping hand makes working much easier. First it is easier to install the bag at the ring. Second, the bag does not get dirty!



picture 5



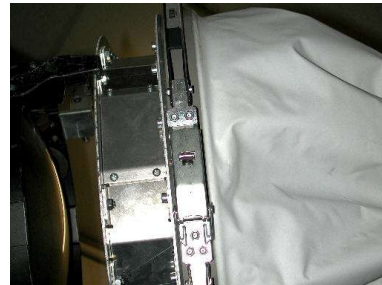
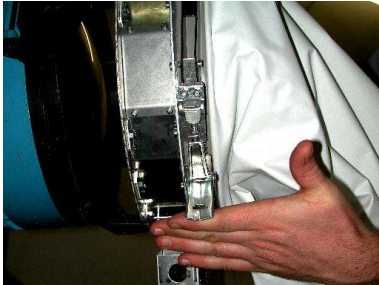
picture 6



picture 7

## **Step 6**

Position ring clamp over the rubber lip and lock into place. Make sure that it is in the middle of the rubber lip.



If you use black covers as accessories please stretch the lamp ring over the bag. (Refer to „set up instructions accessories“, page 15).

## **Step 7**

Now the bag is blown up with the inflator fan. This is done via the rubber valve.



It is selfclosing and opens by putting the fan into it.

For filling, plug the fan into secondary XLR-output located on the side of the ring (picture 8). Place the fan into the air input port (picture 9) and push the button to turn on the fan (picture 10). Once bag is inflated quickly remove fan.



picture 8



picture 9



picture 10

## **Step 8**

Switch on the power supply. The LED shines red, because the right pressure is not reached. The required pressure is filled either by the manual pushbuttons (At the ring or at the power supply) or automatically by the device. In the last case the automatic switch has to be set to „ON“.



Switch automatic on

If the right pressure is reached the filling is ready. The LED shines green now. Leave the automatic „ON“ if you wish a selfrefilling when reaching the minimum pressure. If not switch the automatic „Off“

Now you can switch on the lamp.

# Sep up instructions accessories

accessories parts of inventory



- 1 CTO filterplate (1/4, 1/2 und full CTO - orange available)
- 2 Adapter ring for CTO filter 6kW version
- 3 Mounting ring for black cover, lamp side
- 4 Mounting ring for black cover face side
- 5 Black cover in sleeve
- 6 Mechanical dimmer shutter „Dark Vader“
- 7 DMX console for one dimmer shutter
- 8 DMX console for up to 4 dimmer shutters

# Set up instructions black cover

## **Step 1**

Stretch over the unfilled bag the mounting ring for the lamp side (picture 1). Put the clips on the ring clamp (picture 2). Pay attention to centric seat of the clips. (picture 3). The result after blowing up the bag can be seen in picture 4.

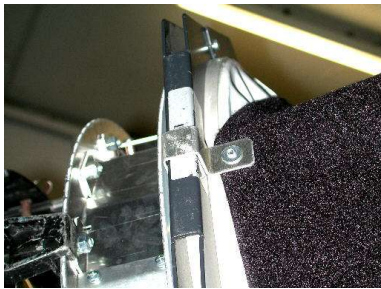
The 6 kW version has no clips. For this system just stretch the ring over the bag.



picture 1



picture 2



picture 3



picture 4

## **Step 2**

Now the mounting ring for the face side should be installed. Just stretch it over the bag.



### **Step 3**

The cover can now be positioned on the bag. A helping hand (picture 5 and 6) can help to avoid folds. You can install them to hang down from the bag or you can complete position it on the bag (picture 7).



picture 5



picture 6



picture 7

# Installing the CTO filter 2,5/4kW

Put the CTO plates in the claws of the lamp before the Bag o Light base ring.



For the 6 kW version an adapterring is available.

# Installing the CTO filter 6kW

The CTO plates are the same as for the 2,5/4kW system, but they require an adapterring:



Open the adapterring with a screwdriver



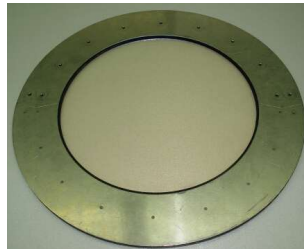
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Put the CTO glas into the ring and close the holders



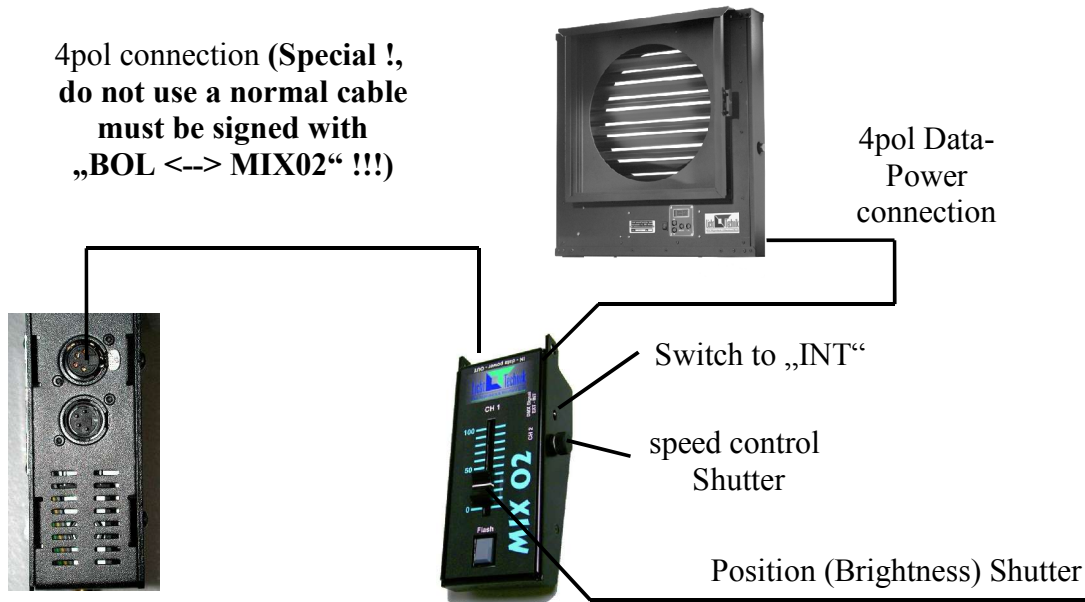
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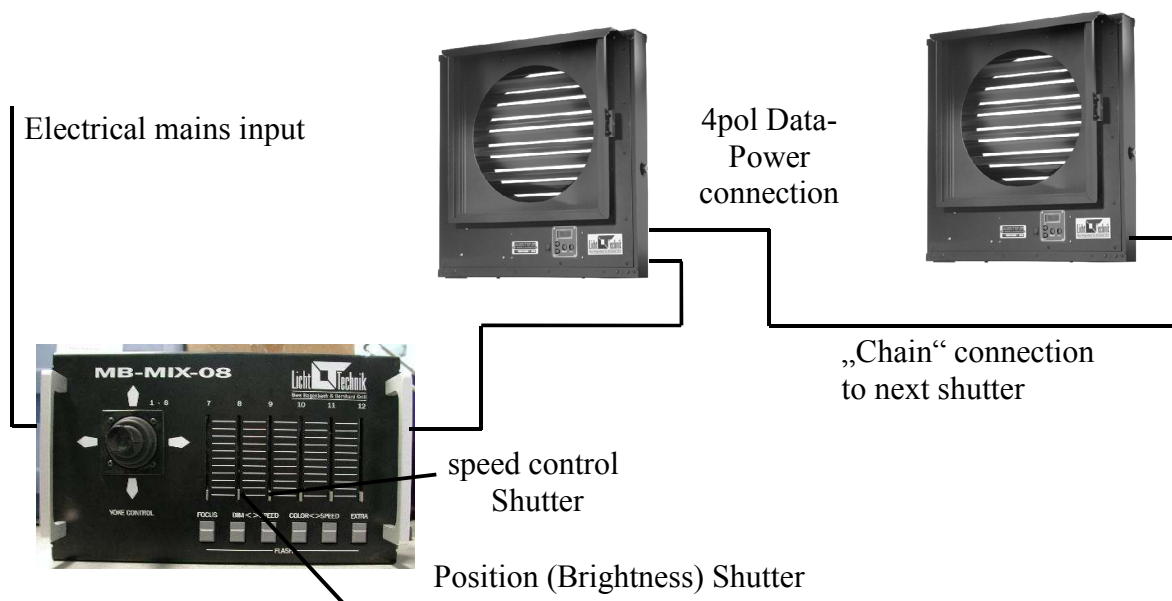
Put the ring with the glas into the barndoorholder of the lamp. (Between lamp and Bag-o-Light base)

# Set up instructions mechanical dimmer shutter

The shutter is located between lamp and Bag o Light base ring. The cabling is illustrated in the following picture. The shutter itself is programmed so that it is working if cabling is right. Please do not reprogram it, in this case a function can not be guaranteed! Experienced users can use some special effects of shutter when using its operating instructions. Therefore a basic knowledge of DMX and the dimmer shutters is necessary.



If you use more than one Shutter, you should use a MIX08. This DMX console has a integrated power supply, so only a few cables are necessary to run the shutters. One for the power connection to the mains and one for each shutter. Make a simple chain connection from one shutter to the other.



# Technical Data

## Power supply PS 50 II

### Dimensions:

Width: 16,5 cm

Height: 11,5 cm

Depth: 25,5 cm

Weight: 1,75 kg

Power input:	AC 100-230V +/-10% 50/60 Hz
Admissible ambient temperature:	0..40 degree Celsius
max. output:	120 VA
Fuses:	primarily 1A slow blow secondarily: 3,15 A slow blow

### Pinout:

4pin XLR, Gold contacts

PIN 1 0V

PIN 2 Blow up (Button)

PIN 3 Signal (air pressure)

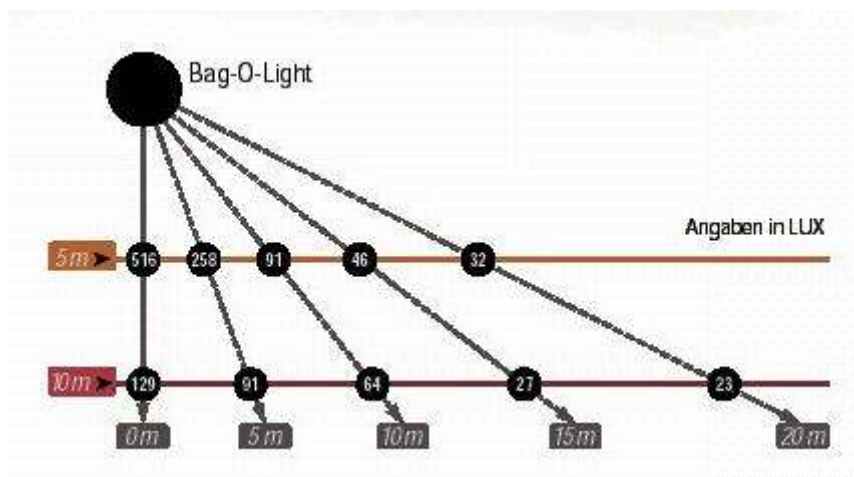
PIN 4 24V DC

housing screen

4pin connecting cable:

2x1mm<sup>2</sup> + 2x0,25mm<sup>2</sup> twisted pair, 110 Ohm characteristic impedance, screened; total screen

Light power (4kW):



## Factory presettings:

The Bag o Light is presetted by the manufacturer as follows:

### Pressure sensor:

Unit: Bar  
Minimum pressure: 0,025 Bar  
Maximum pressure: 0,035 Bar

### LED set up:

< 0,025 Bar: red  
0,025 - 0,035 Bar: green

**The factory presettings must not be changed (in no condition)!**

## Further information

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