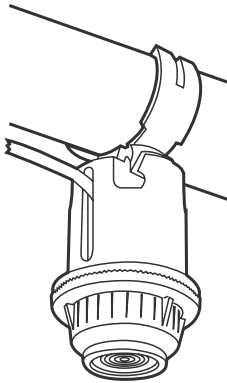




Assembly and Operating Instructions for LUXOMAT® MiniClip LR1



Thank you for purchasing the LUXOMAT® MiniClip LR1.

You have opted for a quality product from the BEG range and for one which has been manufactured, tested, packaged and despatched with the utmost care.

Please read the information contained in these directions before commencing assembly.

Designation	Part.No.
MiniClip LR1	92320

We reserve the right to make any technical adjustments which are in the interests of product-improvement.

Important: All work on the 230V power system must be carried out by qualified personnel only!

The mains' voltage must be cleared prior to commencement of assembly of the LUXOMAT.

2. Mode of functioning

The LUXOMAT® MiniClip LR1 is a light sensor featuring a mixed-light measurement component, which is designed for the purpose of controlling constant light.

It provides direct current of between approx. 1-10V proportionate to the light value measured,

which is then used for the purpose of triggering electronically adjustable electronic lamp ballasts.

A function enabling infinitely variable dimming then provides the basis for a constant-light control feature, which is dependent upon the availability of natural light at any given time.

As the level of availability of natural light drops, the portion of artificial light requiring to be supplied increases, and likewise, when the level of availability of natural light rises again, the portion of artificial light is automatically reduced.

This can generate considerable savings in terms of energy consumption, up to 50% to be precise.

The LUXOMAT® MiniClip LR1 is connected up directly to the 1-10VDC low-voltage interface of the electronic lamp ballast and does not require to be supplied with additional power.

The light value to be maintained in the room is set by turning the knurled cap of the sensor on the LUXOMAT® MiniClip LR1.

3. Installation Instruction

The LUXOMAT® MiniClip LR1 should not be installed in the immediate vicinity of a window to ensure that it will register natural light and artificial light as mixed light.

Reflections of natural light on the ground will also be included in the evaluation process, which is a further reason why a location further into the room is recommended: for example, the centre of the room.

By the same token, the light sensor should not be directly exposed to the interior lighting either (avoid situations where the light shines directly onto it).

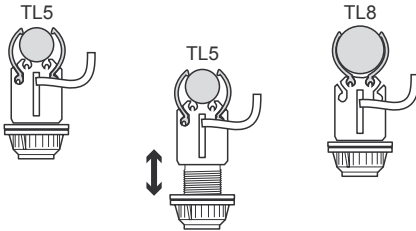
Ideally, furnishing the workplace or office should already have been completed as re-arrangement or setting up of furniture at a later stage will have the effect of changing lighting conditions in the room, which would mean that the sensor would then have to be re-set.

We recommend a minimum installation height of 2.50m.

4. Assembly

Two transparent plastic snap-on clips enable the LUXOMAT® MiniClip LR1 to securely grip the fluorescent tube. There are four slits in the cylindrical housing of the LR1, into which the clips can be inserted:

Depending on requirements, insert both clips into the upper slits for use in conjunction with a TL8 lamp or alternatively into the two lower slits for use with a TL5. Then clip the sensor onto the lamp.

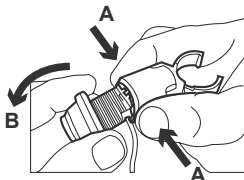


In order to compensate for height-differences prevailing within the lighting system or on the part of the louvered lighting, the sensor head can be pulled out of the central cylinder or pushed in.

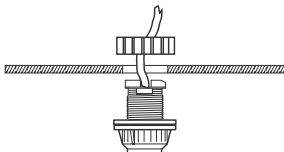
Important: A distance of 5cm must be maintained from the end of the lamp in order to protect the LUXOMAT® MiniClip LR1 from the influences of excessive heat.

The LUXOMAT® MiniClip LR1 can also be installed directly in lamp housings or in ceilings with a material thickness of up to a maximum of 5 mm:

To do this, grip the cylindrical housing firmly and press together (A). Pull out the sensor part, kinking it slightly in the process.(B)



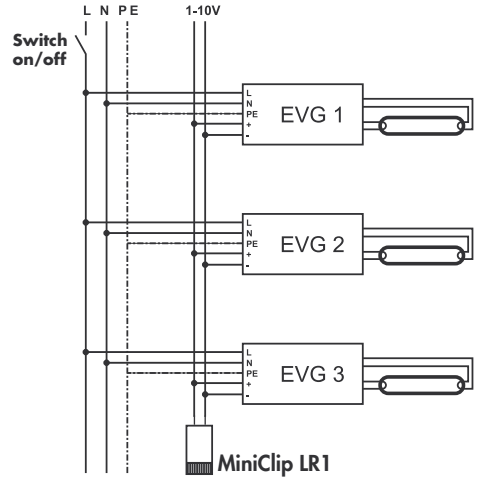
Insert the sensor part into an opening of diameter 21mm and screw the enclosed knurled nut onto the thread of the sensor part.



5. Putting into operation

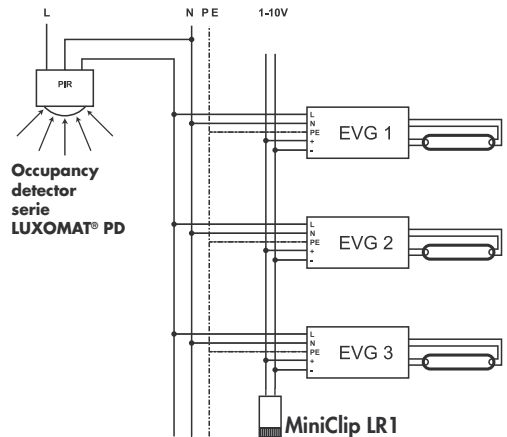
To wire up or connect several lamps in parallel and to integrate a light switch or motion detector, please proceed as directed in the wiring diagram below.

Wiring of an LR1 MiniClip with light switch



replacement of the light switch with a motion detector

It makes sense to carry out the settings in a darkened room or in the evening. This way,



fluctuations, which are always present in natural light, can be avoided.

Now set the brightness on the LUXOMAT® MiniClip LR1 by having the lamp light up to maximum brightness. The ideal operating temperature of the lamp, and thus full brightness, is reached after approx. half an hour.

Then continue setting the brightness on the LUXOMAT® MiniClip LR1 by proceeding in the opposite direction, namely until dimming commences. Check the change in the brightness

value using a luxmeter.

Lay the luxmeter down flat on the work-surface and keep adjusting until, for example, a value of 500 lux has been reached.

Ensure in the process that your own body is not interfering with light adjustment. This is why the ultimate brightness measurement should be checked at an adequate distance from the LUXOMAT® MiniClip LR1.

6. Technical data

Designation	Light-value control system LUXOMAT® MiniClip LR1
Angle of coverage	140°
Max. connectable electronic lamp ballasts	50
Output	>1 – 10 VDC max. 50mA
Length of control line	max. 100m
Connection	red cable (+), blue cable (-)
Protection class	II
Protection system	IP20
Ambient temperature	0 - 55°C
Dimensions	Ø 31 mm x L68mm (incl. clips)
Housing	PC
Range of adjustment	approx. 400.....1500 lux

CE Declaration of conformity: The product meets the requirements of Low-voltage Guideline 73/23/EEC and EMV-Guideline 89/336/EEC.

Guarantee for LUXOMAT® products

Caution! This device does not require maintenance.

The warranty expires upon the opening of or the penetration into the unit with any kind of object.

BEG products are manufactured using state-of-the-art technology and are quality controlled. If a defect nevertheless appears, BEG assumes warranty to the following extent:

1) Duration

The duration of the warranty is 36 months starting from the consumer's purchase of the device.

B) Extent

BEG has the option to repair the device free of charge in its factory or to remanufacture it if the device has become provably unserviceable or has become substantially impaired in its usability within the warranty period due to a manufacturing or material defect.

C) Exclusion

The liability for defects does not cover normal wear and tear or transportation damage; furthermore, it does not cover damage due to non-observance of the installation instructions or unprofessional installation. BEG is to be granted the necessary time and opportunity to repair the defect.

Liability for damage caused by improperly carried out modifications or repair or service work does not exist. This also applies for the supply of individual and replacement parts. BEG is not liable for indirectly related, consequential, and pecuniary damage.

D) Limitation

If BEG does not recognize a notification of defects that was submitted in sufficient time, the rights of the warranty beneficiary to bring to bear claims caused by defects expire 6 months from the timely complaint in all cases.

E) Submission

In the case of a warranty claim, the unit is to be sent to us via the dealer together with a completed warranty card and the sales receipt as well as a short description of the objectionable defect.

BEG (UK) Ltd. - Abbey House - 450 Bath Road - Heathrow UB7 0EB

BEG GmbH - Schlosserstr. 30 - D-51789 Lindlar

Unit model: LUXOMAT® MiniClip LR1

Date of sale to the customer:

Note: No follow up of the warranty claim without the warranty card and the purchase receipt.

Stamp and signature of the dealer or the electrician who installed the system:

Address of the sender:

Name: _____

Street: _____

Post code/city: _____

Defects discovered:

