# ALTENBURGER ELECTRONIC GMBH

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## Operating instructions for the Light Sensor (active) LS/de

#### Area of application

The Light Sensor is designed for connection to lighting control unit with active sensor input. It is powered by the control unit and transmits the brightness value needed for lighting control

#### Area of detection

If the light value outputs of several sensors are connected in parallel an average value is used for determining the brightness level.

### Notes on installing the Light Sensor:

The sensor can be installed in the luminaire to be controlled or in the ceiling. With the adapter ring supplied, the sensor can be installed in a housing for 50 mm LV halogen lamps (halogen lamp mounting ring), so the unit can be easily installed in suspended ceilings. If the housing has a swivel insert, the angle at which the sensor is installed can be varied and therefore also the area of detection

If the sensor is to be installed in housings for halogen lamps with the aid of the adapter ring, you should first check the precise measurements as these may vary from manufacturer to manufacturer. Because the sensor has a side cable exit, not all halogen mounting rings are suitable for taking the sensor. It is best to check beforehand on an appropriate sample,

Wherever possible, the sensor should be installed so that it points directly at the area to be covered (e.g. working place). The sensor has to be installed near the controlled luminaries and should not be exposed to direct exterior daylight (e.g. close to a window) or to the light of separately controlled luminaires. The room brightness must be detected indirectly by the light reflected from a table surface or from the floor. The sensor optics are designed for a room height of between 2.5 and 3 m. The accuracy of control will decrease with increased mounting height.

#### Design and connection

The sensor has basic insulation (no safety extra-low voltage). It may only be operated on equipment designed for it. It must not be connected to mains voltage. The sensor is supplied with 2 m connecting cable. Check the relevant regulations for the particular area of application before installing, connecting or cabling the sensor.

#### Note:

For surface mounting on ceilings and installation in louvre luminaires we recommend using the LS/d sensor. which has the same functions.

#### Technical data

Designation:

Light Sensor (active)

Type:

LS/de

Order-no.: Operating voltage:

51.21.034

Current innut:

typ. 10V DC (8-20V DC) typ, 2mA DC

Operating temperature:

Operating range:

0°C to +50°C up to 800 Lux at the sensor

Connections:

Vcc green (8-20V DC), 0V brown (ground), LS yellow (light value)

Connecting cable:

approx. 2m, ends stripped and tin-plated, 3(4)x0.14mm<sup>2</sup>

Maximum cable length:

Connection:

For wiring and parallel connection of sensors see control unit

- The sensor cables must be routed separately from DALI and mains cables (a shared cable must not be used) -

Protection class:

II (total insulation)

Type of protection:

IP 20

Pollution severity: Dimensions, weight:: 2 (dry not conductive) See diagram, approx. 55g

Design:

Plastic casing

Accessories:

Adapter ring Ø50mm for installation in a housing for 50mm LV halogen lamps

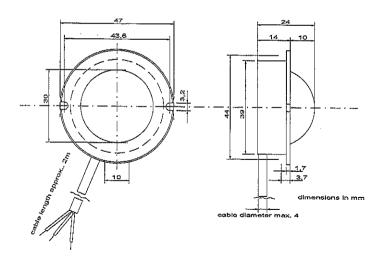
Labelling:

- If incorrectly connected there is a risk of failure or destruction -

### Safety and installation instructions

- The unit should be installed and tested only by a qualified electrician.
- Power to the units must be switched off before any work is undertaken,
- The relevant safety and accident prevention regulations and installation instructions to be observed.
- UV-resistant cables must be used if they are exposed to light from the lamp.

#### Dimensional drawing:



27.07.2007 V1.1

Subject to change without notice. Errors and omission excepted,