

# ALTENBURGER ELECTRONIC GMBH

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## Operating instruction for the light and motion sensor (active) LBS/d

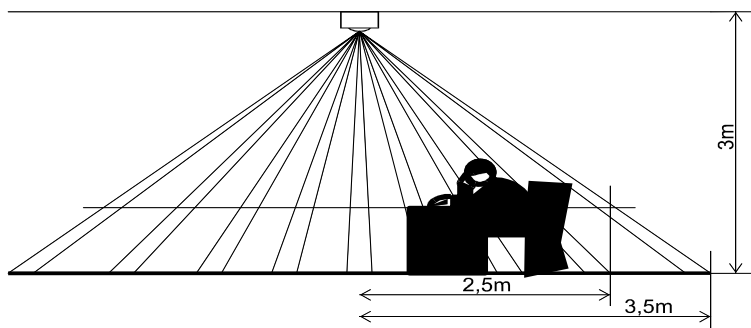
### Area of application

The light and motion sensor is designed for connection to lighting controllers with active sensor inputs. The sensor is supplied with current by the controller and uses an output voltage <terminal LS> to inform the controller of the lighting value and <terminal B> to register motion.

### Area of detection:

The light and motion sensor has a detection angle of approx. 100°, covering an area with a diameter of approx. 7m if mounted at a height of 3m.

A number of motion detectors can be connected in parallel to increase the detection area or provide greater sensitivity. If the light value is connected in parallel a mixed value (average value) is obtained from the connected sensors for measuring the brightness.



### Notes on installing light and motion sensors:

The unit should be installed on the ceiling in such a way that movements can be detected. The sensor optics are designed for a room height of between 2.5 and 3 m. In high-ceiling rooms the detection sensitivity of the motion sensor is correspondingly lower. Avoid placing the sensor in drafts (near a ventilator for example). Also make sure that equipment that gives off heat, such as a fax machine, is not in the detection range of the sensor.

### Design, installation and connection:

The unit can be surface mounted on the ceiling or, with the lamp clips supplied, attached carefully to fluorescent lamps.

If it is to be mounted on the ceiling the baseplate must first be removed from the sensor and attached to the ceiling with screws; suitable cable can then be connected to the terminals in the base. The sensor is then attached to the base.

With the aid of the lamp clips supplied the sensor can be installed in luminaires with a louvre at least 60 mm wide. The appropriate lamp clip is inserted in the base of the LBS/d so that the sensor can be attached to 26 mm (T8) or 16 mm (T5) fluorescent lamps. The clip must be placed near a lampholder to avoid an excessive mechanical load on the lamp. However, because of the heat produced the minimum distance to the lampholder must be 8 cm. The unit can be adjusted to different depths of the louvre luminaires by pushing in or pulling out the lamp clips.

### 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 must be observed.
- UV resistant cables must be used if the units are to be operated inside luminaires.

### Technical data

Designation:	Light and motion sensor (active) LBS/d
Type:	LBS/d
Order-no.:	51.21.031
Operating voltage:	nominal 10V DC (8-20V DC)
Current input:	max. 3mA DC
Operating temperature:	0°C to +50°C
Operating range:	up to 800 lux at the sensor
Connections:	Vcc (8-20V DC), 0V (ground), LS (light value output) B (motion output)
Terminals:	Screw terminals for single-wire or fine-wire conductors 0.3–1.5 mm <sup>2</sup>
Terminal assignment	See controller
Parallel connection of sensors:	See controller
Protection class:	II (total insulation)
Type of protection:	IP 20
Pollution severity:	2 (dry not conductive)
Maximum cable length:	100m

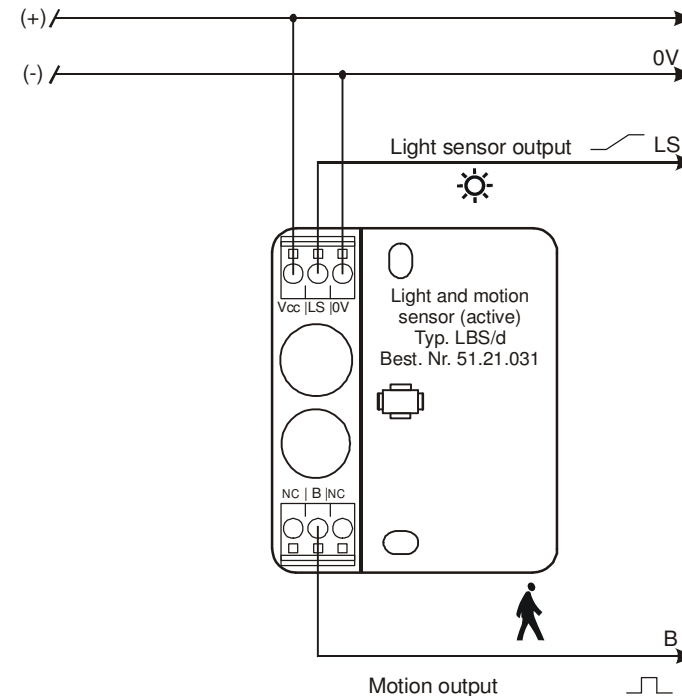
- The sensor cables must be routed separately from DALI and mains cables (a shared cable must not be used) -

Dimensions, weight	WxHxD=58.5 x 70.5 x 42 mm, approx. 70 g
Design:	Plastic housing for installation on ceilings or in louvre luminaires
Labelling:	CE

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

Subject to change without notice. Errors and omission excepted.

### Wiring diagram:



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