

- Sensitive magnetometer IC
- May be installed in a profile
- Easy calibration of sensor
- Soft dimming
- Long range of detection
- Easy to use

Description	MagnetSwitch
Article number	LW05MGSWITCHL491-1X16A-CV
Size LxWxH	66,5x27,5x15,5 mm
Maximum output current	16 A
Maximum output power	384 W
Power consumption	< 0,4 W
Power supply type	Constant Voltage (CV)
Power supply voltage	8 - 27 V DC
Eco-timer	15 minutes
Calibration method	Semi-Automatic
Detection range	up to 600mm (Depends on magnet size)
Connection type	Screw terminals
Ambient temperature	0 - 40°C

CEZ Preliminary datasheet MagnetSwitch

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Before connecting the controller with LED light sources make sure

that the power supply has the appropriate parameters to supply all

connected devices. When connecting to the controller the LED light

source and the power supply, remember to connect the devices in

accordance with their polarity. Improper connection can damage or

Connection with constant voltage LED light sources

MagnetSwitch

LED Module

LED Module

LED Module

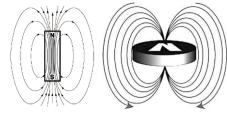
Connection

8-27 VDC

request.

destroy connected devices.

Mounting information



The detection range depends on the strength of the magnet, so its physical size. It is also important to consider the magnet placement to obtain the strongest magnetic field. For short distance, use a smaller magnet to avoid sensor overdrive

(smartphones), Bluetooth speakers etc. can cause false switching if moves near the sensor.

Calibration process

- Open the door
- Connect the controller to a LED light and to power supply
- Switch on the power supply
- 4) The light will blink ten times.
- After light stop close the door
- 6) Open the door
- The light should turn on. If not, change the magnet place and repeat the calibration process
- The calibration process is finished

Recalibration process - open and close the door fifteen times, one after another or alternatively, bring a strong magnet closer to the controller. Follow the rest of the instructions from point 4.

Troubleshooting

The light turns off after door opening and opposite

Repeat the calibration process

Nothing happens during door opening

- Change the magnet position or its angle
- Replace the magnet with a stronger one
- Check the power supply and polarisation

The light start blinking during closing door

Place the magnet further from the controller or use weaker magnet.



MaonetSwitch

Cooling

The controller generates heat according to the load, therefore it is necessary to provide cooling if the temperature exceeds 70°C. The temperature should be measured in the center of the plate. Improper use of the controller may lead to damage or overheat.

We are not responsible for any loss, or damage resulting from improper use of drives. Guarantee becomes void in such cases.

Safety rules

Controllers can change the intensity of the generated light, but even a dimmed LED light source can emit light that can adversely affect the retina when looking directly at the LEDs.

Switching the LED light source on and off quickly can cause discomfort, disturbances of perception and epilepsy attacks in people sensitive to light.

It is forbidden to touch the device under operation. Damaged or incorrectly operating drivers must be immediately disconnected from the power supply.

You must not use damaged drivers or operating incorrectly, such devices should be immediately disconnected from the power supply.

Protection measures against damage

Controllers are prone to damage, so even minor interference can result in the destruction of these devices. Drivers should be used in accordance with their intended use.

One of the most serious threats are electrostatic discharge and short circuiting of electrical circuits. In order to avoid damaging the controller, do not touch its electronic components without using a suitable protection against antistatic discharge.

The controllers are not equipped with overvoltage and short-circuit protection.

Connections as well as all luminaire elements must meet all current and important national standards.

Do not use electronic devices that work improperly, in which case you must turn off the power of the devices immediately. Damaged devices can cause electric shock or short circuit.

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Subject to technical changes and errors.

The diagram above is an example of the connection and may be

different from the actual layout. Wires between the power supply,

controller and LED modules should be as short as possible.

Connecting more than one controller to the same power supply is not

recommended. It may cause interference, visible on LED light

sources. Controllers adapted to such work are available on special