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# IR-V4

## Purpose:

The IR-V4 module is a contactless switch for controlling LED luminaires.



## Features:

The IR-V4 works by reflecting IR light from an obstacle. An obstacle is any object that reflects IR light. The module can be controlled by waving your hand at a suitable distance.

Typically, the IR-V4 module controls the LED strip. The module and the LED strip can be mounted in an ALU profile covered with a diffuser that transmits IR light. The module is powered directly from the supply voltage of the LED strip and shall regulate the current in the LED strip by pulse width modulation, (PWM).

There is a signal LED on the module to show the current status of the application and its intensity is adjusted to the ambient light.

- **Operating voltage** 6V do 30V **Note!** The module has no surge protection. The supply voltage should be free of voltage spikes greater than 30V.
- **Max current** 6 A Own consumption: cca. 6 mA (depending on the application).
- **PWM:** Frequency :500 Hz Level: 5 % do 100 %
- **Dimensions (mm):** length: 42 width: 9 height: 5

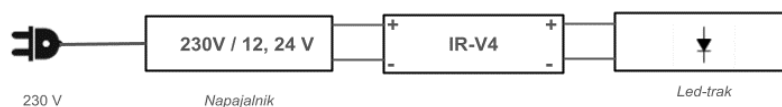
## Sensitivity:

The sensitivity and thus the performance of the module is influenced by the diffuser's light transmission, thickness/surface area and distance. The module also works when covered with the sand-blasted glass. For more information see the use of the IR-V4 on sand-blasted glass.

*Typical difusser permeabilities*

Difusser	IR-V4 distance (cm)
Mat, sandblasted glass <sup>1</sup>	6
Half mat, opal, frozen, milky	10
Transperent	12
No difusor, cover	18

*Typical electrical connection*



<sup>1</sup> Thickness 3mm