

## RHKF

## Room light intensity sensor



### Summary

The room light intensity sensor with selectable range measures natural or artificial light level in rooms, halls, workshops, and other areas. It provides analogue output signal 0...10V or 4..20 mA DC.

### Application

- Room light control, interlocking of lights in public rooms, blinds control etc.
- Monitoring of light level at workplaces, stores, halls etc.

### Function

The sensor uses a photodiode, the signal of which is processed and transformed into a voltage or current normalized signal at the output terminals. The DIP switch selects one of four ranges. The photodiode is optimized so as to fit the wavelengths which are perceived by human eyes (350...820 nm).

The sensor is fixed using 2 or 4 screws to a flush-mount box (Ø 55 mm) or to any flat surface. In the lower part of the bottom there is an aperture for cable pass-through.

### Technical data

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Power	24 V AC / DC
Consumption	max. 1 VA at 24 V DC
Measuring ranges	0..500 lx, 0...1 klx, 0...5 klx, 0..20 klx, set by a DIP switch
Measuring error	less than +/- 10% of max. value
Temperature drift	less than +/- 5 % of max. value / 10 K
Output	0..10 V DC ( <b>RHKF-U</b> ) , or 4..20 mA (active, load < 500 Ohm) ( <b>RHKF-I</b> )
Ambient temperature	0..50 °C
Protection degree	IP30 (according to EN 60529)
Terminals	screw terminals for wires 0,14 – 1,5 mm <sup>2</sup>
Cover	ABS, colour similar to RAL9010 white, optional stainless steel
Dimensions	see below

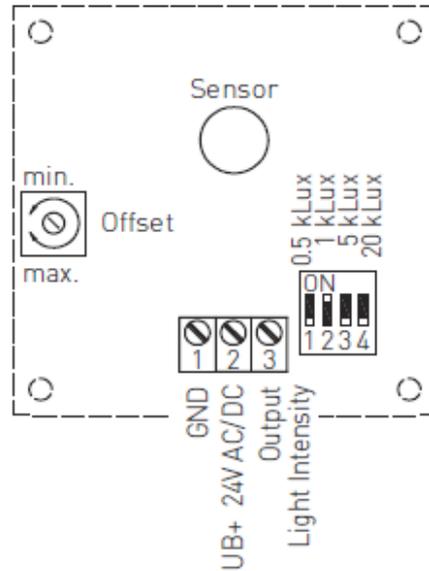
## Sensor types

Type	Output signal	Ranges
RHKF-I	4...20 mA	0..500 lx, 0..1 klx, 0..5 klx 0...20 klx
RHKF-U	0...10 V	0..500 lx, 0..1 klx, 0..5 klx 0...20 klx

## Terminals

- 1 common ground (GND)
- 2 power (24 V AC / DC)
- 3 output signal, voltage or current (Out)

## Range setting



Offset – correction for zero offset setting

DIP switches – set the switch at the requested range to ON

## Dimensions

