

# Outside Light Sensor Multi-Ranging Lux AHKF-\*\*\*

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## Description:

These light intensity sensors measure the light level and are used to control luminaries, lighting systems, Venetian blinds and canvas blinds, etc. They can be used to monitor lighting conditions at workplaces, in greenhouses, storage halls, workshops and corridors, in outdoor areas, in industrial halls, in offices, in residential and business facilities. Applications include daylight-dependent constant light control, as a light intensity or twilight sensor and to control sunshade equipment avoiding unnecessary heating-up of rooms.

## Technical Specification:

<b>Power Supply:</b>	24V AC ( $\pm 20\%$ ); 15...36V DC for U variant, 15...36V DC for I variant, depending on working resistance, residual ripple stabilised $\pm 0.3V$
<b>Working Resistance:</b>	$R_a \text{ (ohm)} = (U_b - 14V) / 0.02A$ for I variant
<b>Load Resistance:</b>	$R_L > 5k\Omega$ for U variant
<b>Power Consumption:</b>	$< 1W$ at 24V DC; $< 2VA$ at 24V DC
<b>Sensor:</b>	Light sensor with diffuser
<b>Measuring Ranges:</b>	Multi-range switching (via DIP switches) with 4 switchable measuring ranges 0...500 Lux / 1 kLux / 2 kLux / 5 kLux / 20 kLux / 60kLux
<b>Output:</b>	4...20mA or 0-10V (2- or 3-wire connection)
<b>Measuring Error:</b>	$< 5\%$ of final value
<b>Ambient Temperature:</b>	$-30...+70^\circ C$
<b>Electrical Connection:</b>	$0.14 - 1.5mm^2$ , via screw terminals on circuit board
<b>Enclosure:</b>	Plastic, UV-stabilised, material polyamide, 30% glass-globe reinforced, with quick-locking screws (slotted, Phillips head combination), colour traffic white (similar to RAL 9016), enclosure cover is transparent
<b>Enclosure Dimensions:</b>	72 x 64 x 43.3mm (Tyr 1)
<b>Cable Gland:</b>	M 16 x 1.5, including strain relief, exchangeable, max. inner diameter 10.4mm
<b>Installation:</b>	On-wall installation.
<b>Protection Class:</b>	III (according to EN 60730)
<b>Protection Type:</b>	IP65 (according to EN 60529)
<b>Standards:</b>	CE conformity, electromagnetic compatibility according to EN 61326, EMC Directive 2014 / 30 / EU

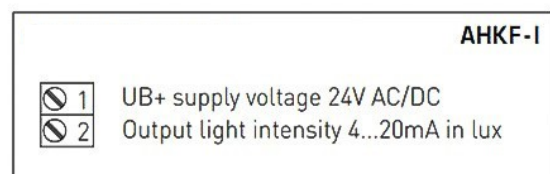
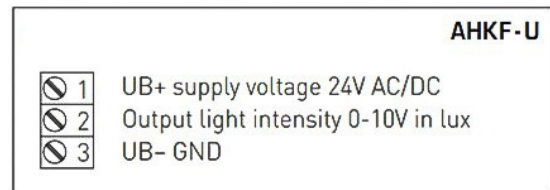
## Order Codes:

<b>AHKF-U</b>	Outside Light Sensor Multi-Ranging Lux 0-10V
<b>AHKF-I</b>	Outside Light Sensor Multi-Ranging Lux 4...20mA

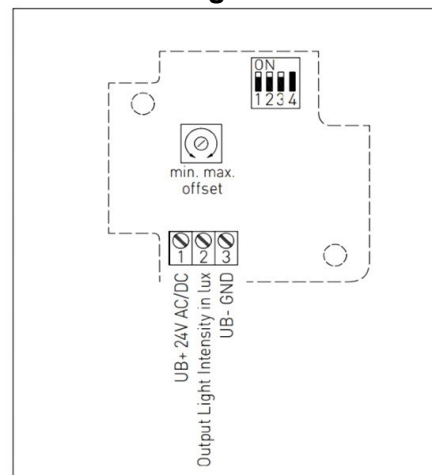


Measuring ranges (selectable)	DIP 1	DIP 2	DIP 3	DIP 4
0...500 Lux	OFF	OFF	OFF	–
0... 1 kLux	ON	OFF	OFF	–
0... 2 kLux	OFF	ON	OFF	–
0... 5 kLux	ON	ON	OFF	–
0... 20 kLux	OFF	OFF	ON	–
0... 60 kLux	ON	OFF	ON	–

## Connecting Diagrams:



## Schematic Diagram:



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### Dimensions:

