Inside Light Sensor Multi-Ranging Lux
RHKF-***

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.
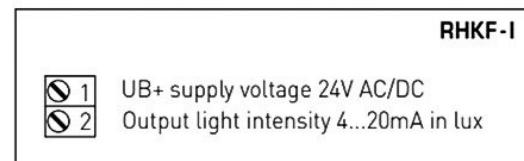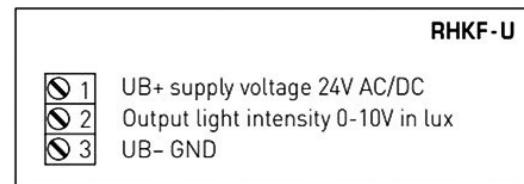
Technical Specification:

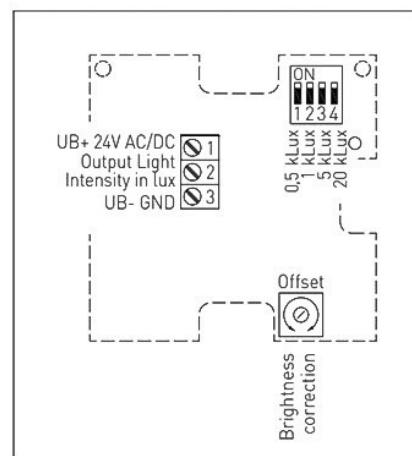|	
Power Supply:	24V AC (±20%); 15...36V DC for U variant, 15...36V DC for I variant, depending on working resistance, residual ripple stabilised ±0.3V
Working Resistance:	R_a (ohm) = (U_b - 14V) / 0.02A for I variant
Load Resistance:	R_L > 5kOhm for U variant
Power Consumption:	< 1W at 24V DC; < 2VA at 24V DC
Sensor:	Light sensor with diffuser
Measuring Ranges:	Multi-range switching (via DIP switches) with 4 switchable measuring ranges 0...500 Lux / 1 kLux / 5 kLux / 20 kLux
Output:	4...20mA or 0-10V (2- or 3-wire connection)
Measuring Error:	< 5% of final value
Ambient Temperature:	0…+50˚C
Electrical Connection:	0.14 – 1.5mm², via screw terminals on circuit board
Enclosure:	Plastic, material ABS, colour pure white (similar to RAL 9010)
Dimensions:	85 x 85 x 27mm (Baldur 1)
Installation:	Wall mounting or on in-wall flush box, Ø55mm, base with 4-hole for mounting on vertically or horizontally installed in-wall flush boxes for cable entry from the back, with predetermined breaking point for on-wall cable entry from top / bottom in case of plain on-wall installation.
Protection Class:	III (according to EN 60730)
Protection Type:	IP30 (according to EN 60529)
Standards:	CE conformity, electromagnetic compatibility according to EN 61326, EMC Directive 2014 / 30 / EU

Order Codes:

RHKF-U	Inside Light Sensor Multi-Ranging Lux 0-10V
RHKF-I	Inside Light Sensor Multi-Ranging Lux 4...20mA

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

RHKF-U

1	UB+ supply voltage 24V AC/DC
2	Output light intensity 0-10V in lux
3	UB– GND

RHKF-I

1	UB+ supply voltage 24V AC/DC
2	Output light intensity 4...20mA in lux

Schematic Diagram:

Dimensions: