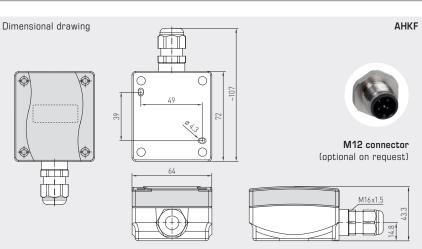




Outdoor light intensity sensors / twilight sensors
with multi-range switching
and active output

The light intensity sensor/twilight sensor **PHOT**ASGARD® **AHKF** with six switchable measuring ranges (six devices in one) measures the luminous intensity and is used to control luminaries, lighting systems, Venetian blinds and canvas blinds, etc., to monitor lighting conditions at work-places, in greenhouses, storage halls, workshops, corridors, in outdoor areas, in industrial halls, in offices as well as in residential and business facilities, for daylight-dependant constant light control, as light intensity or twilight sensor and as sun protection control to avoid unnecessary room heating. Therefore it minimizes your variety of types and stock keeping while covering a greater range of universal applications. The sensor used was specifically adapted to the sensitivity of the human eye. Its greatest sensitivity is in the range of 400 nm to 700 nm. With its special filter, the sensor is therefore ideally suited for measuring exposure to daylight and/or for measuring artificial light of high colour temperature (similar to sunlight).

TECHNICAL DATA				
Power supply:	$24V$ AC (± $20\%$ ); $1536V$ DC for U variant $1536V$ DC for I variant, depending on working resistance, residual ripple stabilised $\pm0.3V$			
Working resistance:	$R_a$ (ohm) = $(U_b-14V) / 0.02A$ for I variant			
Load resistance:	$R_L > 5  kOhm$ for U variant			
Power consumption:	< 1 W at 24 V DC; $<$ 2 VA at 24 V AC			
Sensor:	light sensor			
Measuring ranges:	multi-range switching (via DIP switches)  0500 Lux /1 kLux /2 kLux /5 kLux /20 kLux /60 kLux  (other individual ranges optional on request)			
Output:	420 mA or 0-10 V (2- or 3-wire connection)			
Accuracy:	typically < 5% of final value			
Ambient temperature:	−30+70 °C			
Electrical connection:	0.14 - 1.5 mm², via terminal screws			
Housing:	plastic, UV-resistant, material polyamide, 30% glass-globe reinforced, with quick-locking screws (slotted/Phillips head combination), colour traffic white (similar to RAL 9016), Housing cover is transparent!			
Housing dimensions:	72 x 64 x 43.3 mm (Tyr 1)			
Cable connection:	cable gland, plastic (M 16 x 1.5; with strain relief, exchangeable, nner diameter 10.4 mm) or M12 connector (optional on request)			
Installation:	on-wall			
Protection class:	III (according to EN 60730)			
Protection type:	IP 67 (according to EN 60529) housing tested, TÜV SÜD, report no. 713139052 (Tyr 1)			
Standards:	CE conformity according to EMC directive 2014/30/EU			





Measuring ranges (selectable)	DIP 1	DIP 2	DIP 3	DIP 4
0500 Lux	OFF	OFF	OFF	-
O 1 kLux	ON	OFF	OFF	_
O 2 kLux	OFF	ON	OFF	-
0 5 kLux	ON	ON	OFF	-
O 20 kLux (default)	OFF	OFF	ON	_
0 60 kLux	ON	OFF	ON	-

Connecting diagram

AHKF-U

AHKF-I

© 1 © 2 © 3

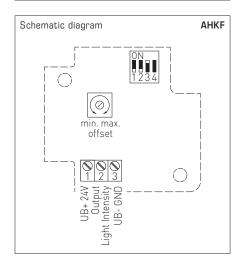
UB+ supply voltage 24V AC/DC Output light intensity 0-10V UB- GND

OB- GNL

Connecting diagram

**1** 2

UB+ supply voltage 24V DC Output light intensity 4...20mA



PHOTASGARD® AHKF Outdoor light intensity sensors/twilight sensors								
Type/WG01	Measuring Range Light Intensity (adjustable)	<b>Output</b> Light Intensity	Item No.	Price				
AHKF								
AHKF-I	0500 Lux / 1 / 2 / 5 / 20 / 60 kLux	4 20 mA	1601-1112-1000-000	107,95 €				
AHKF-U	0500 Lux / 1 / 2 / 5 / 20 / 60 kLux	0-10 V	1601-1111-1000-000	107,95 €				
Extra charge:	other individual measuring ranges optional		on request					