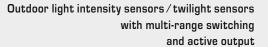
PHOTASGARD® AHKF



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

24 V AC (±20%); 1536 V DC for U variant 1536 V DC for I variant, depending on working resistance, residual ripple stabilised ±0.3 V
$R_a(ohm) = (U_b - 14 V) / 0.02 A$ for I variant
$R_L > 5 kOhm$ for U variant
< 1 W at 24 V DC; $< 2 VA$ at 24 V AC
light sensor (see beginning of this chapter)
multi-range switching (via DIP switches) 0500 Lux / 1 kLux / 2 kLux / 5 kLux / 20 kLux / 60 kLux (other individual ranges optional, e.g. 100 kLux)
420mA or 0-10V (2- or 3-wire connection)
typically $< 5\%$ of final value
–30+70 °C
0.14 - 1.5 mm², via terminal screws
plastic, UV-resistant, material polyamide, 30% glass-globe reinforced, with quick-locking screws (slotted/Phillips head combination), colour traffic white (similar to RAL9016), Housing cover is transparent!
72 x 64 x 43.3 mm (Tyr 1)
cable gland, plastic (M16x1.5; with strain relief, exchangeable, nner diameter 10.4 mm) or M12 connector (optional on request)
on-wall
III (according to EN 60730)
IP67 (according to EN 60529) housing tested, TÜV SÜD, report no. 713139052 (Tyr1)
CE conformity, electromagnetic compatibility according to EN 61 326, EMC directive 2014/30/EU

Measuring ranges (selectable)	DIP 1	DIP 2	DIP 3	DIP 4
0500 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 (default)	OFF	OFF	ON	-
060 kLux	ON	OFF	ON	-

Connecting diagram

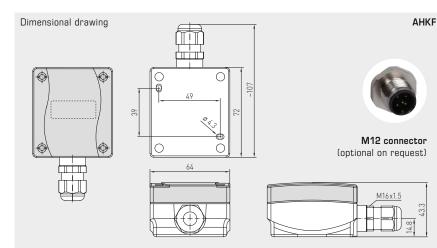
♥ 1♥ 2♥ 3

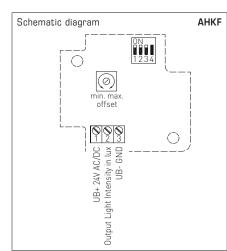
UB+ supply voltage 24V AC/DC Output light intensity 0-10V in lux UB- GND

Connecting diagram



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





PHOTASGARD [®] AHKF Outdoor light intensity sensors/twilight sensors								
Type/WG01	Measuring Range Light Intensity (adjustable)	Output Light Intensity	ltem No.	Price				
AHKF								
AHKF-I	0500 Lux / 1 / 2 / 5 / 20 / 60 kLux	420 mA	1601-1112-1000-000	88,87 €				
AHKF-U	0500 Lux / 1 / 2 / 5 / 20 / 60 kLux	0 -10 V	1601-1111-1000-000	88,87 €				
Extra charge:	Other individual measuring ranges optional	, e. g. 100 kLux	on request					



AHKF



AHKF-U

AHKF-I

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