



PHOTASGARD® AHKF

Ⓓ Bedienungs- und Montageanleitung

Außenhelligkeitsfühler / Dämmerungsfühler,
mit Mehrbereichsumschaltung und aktivem Ausgang,
Serie Thor III

ⒼⒷ Operating Instructions, Mounting & Installation

Outdoor light intensity sensors / twilight sensors
with multi-range switching and active output,
series Thor III

Ⓕ Notice d'instruction

Sonde de luminosité extérieure / sonde crépusculaire,
avec commutation multi-gamme et sortie active,
série Thor III

ⓇⓊ Руководство по монтажу и обслуживанию

Датчик освещенности / затемнения наружный,
с переключаемым диапазоном измерения
и активным выходом, серия Thor III



AHKF

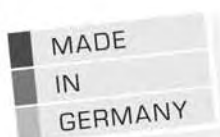


S+S REGELTECHNIK

S+S REGELTECHNIK GMBH
PIRNAER STRASSE 20
90411 NÜRNBERG / GERMANY

FON +49 (0) 911 / 5 19 47-0
FAX +49 (0) 911 / 5 19 47-70

mail@SplusS.de
www.SplusS.de



Herzlichen Glückwunsch!

Sie haben ein deutsches Qualitätsprodukt erworben.

Congratulations!

You have bought a German quality product.

Félicitations!

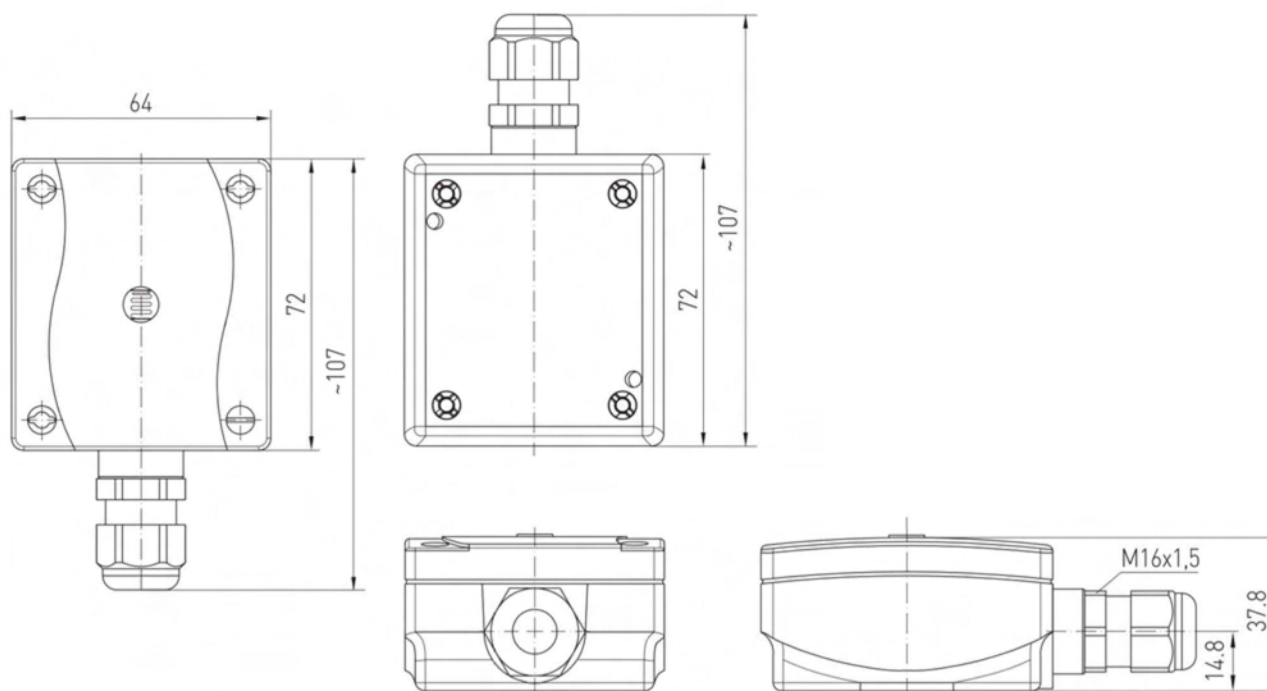
Vous avez fait l'acquisition d'un produit allemand de qualité.

Примите наши поздравления!

Вы приобрели качественный продукт, изготовленный в Германии.

Maßzeichnung
Dimensional drawing
Plan coté
Габаритный чертеж

AHKF



The light intensity sensor/twilight sensor PHOTASGARD® AHKF with four switchable measuring ranges (four 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 workplaces, 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 to control sunshade equipment avoiding unnecessary heating-up of rooms. Therefore it minimizes your variety of types and stockkeeping while covering a greater range of universal applications.

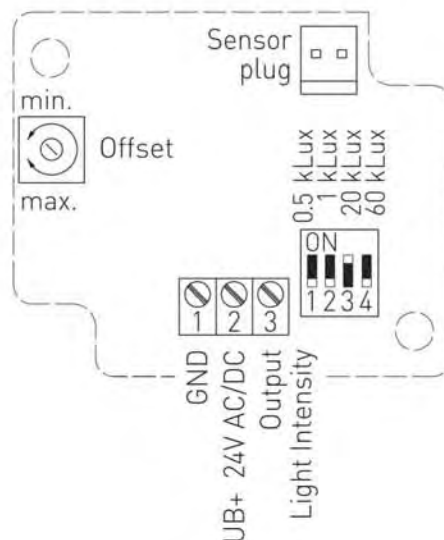
The sensor used in PHOTASGARD® light intensity sensors was specifically adapted to the sensitivity of the human eye. Its greatest sensitivity is in the range of 350 nm to 820 nm. Therefore with its special filter the sensor is predestined for exposure measurement of daylight and/or for measuring artificial light of high colour temperature (similar to sunlight). The case of the sensor is hermetically tight, the vision panel is protected by a glass plate.

TECHNICAL DATA:

Power supply:	24 V AC/DC, current consumption max. 10 mA at 24 V DC
Power consumption:	< 1 VA at 24 V DC
Sensor:	photodiode with glass case
Measuring ranges:	0...500 Lux / 1 kLux / 20 kLux / 60 kLux, multi-range switching (via DIP switches) see schematic diagram (other individual ranges optional, arbitrarily selectable, e.g. 100 kLux)
Output:	4...20 mA or 0-10 V (linearised, active, 3-wire connection)
Ambient temperature:	-10...+50 °C
Electrical connection:	0.14 - 1.5 mm ² , via terminal screws on circuit board
Measuring error:	< ± 10 % of final value
Temperature drift:	< ± 5 % of final value / 10 K
Enclosure:	plastic, material polyamide, 30 % glass-globe-reinforced, with quick-locking screws (slotted/Phillips head combination), colour pure white (similar RAL 9010)
Dimensions enclosure:	72 x 64 x 37.8 mm (Thor III)
Cable gland:	M 16 x 1.5, including strain relief, exchangeable, max. inner diameter 10.4 mm
Installation:	on-wall
Protection class:	III (according to EN 60 730)
Protection type:	IP 65 (according to EN 60 529)
Standards:	CE conformity, electromagnetic compatibility according to EN 61 326 + A1 + A2, EMC directive 2004/108/EC

Schematic diagram

AHKF



Connecting diagram

AHKF-I

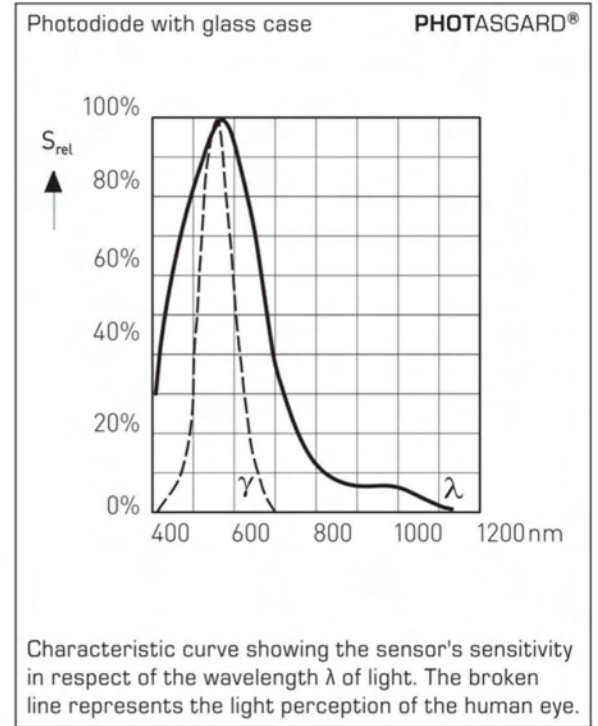
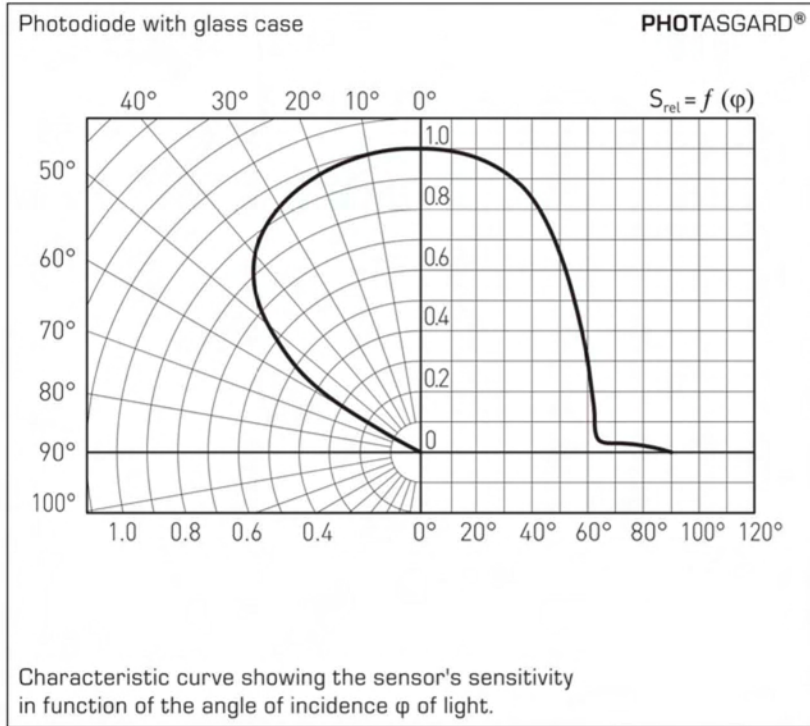
1	UB- GND
2	UB+ supply voltage 24V AC/DC
3	Output light intensity 4-20mA (linearised)

Connecting diagram

AHKF-U

1	UB- GND
2	UB+ supply voltage 24V AC/DC
3	Output light intensity 0-10V (linearised)

Type/WG1	Measuring Range Light Intensity [selectable]	Output Light Intensity
AHKF -I	0...500 Lux / 1 kLux / 20 kLux / 60 kLux	4 ... 20 mA (linearised)
AHKF -U	0...500 Lux / 1 kLux / 20 kLux / 60 kLux	0 - 10 V (linearised)
Optional:	Other individual measuring ranges	



The sensor used in PHOTASGARD® light intensity sensors (photodiode with glass case) was specifically adapted to the sensitivity of the human eye. Its greatest sensitivity is in the range of 350nm to 820nm. Therefore with its special filter the sensor is predestined for exposure measurement of daylight and/or for measuring artificial light of high colour temperature (similar to sunlight). The case of the sensor is hermetically tight, the vision panel is protected by a glass plate.

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Errors and technical changes excepted.

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