

In-ceiling light intensity sensors, with multi-range switching and active output



The light-intensity sensor **PHOT**ASGARD® **DHKF** with six switchable measuring ranges (six devices in one) for installation in suspended ceilings. The connecting head is pluggable for quick and easy mounting. The measuring transducer is accommodated in a separate housing

The sensor used was specifically adapted to the sensitivity of the human eye. Its greatest sensitivity is in the range of  $400\,\mathrm{nm}$  to  $700\,\mathrm{nm}$ . With its special filter, the sensor is therefore ideally suited to exposure measurement of daylight and/or for measuring artificial light of high colour temperature (similar to sunlight).

It is used for daylight-dependent constant light control, to control luminaires, lighting systems, Venetian blinds and canvas blinds, and to control light intensity and sun protection hoods to avoid unnecessary heating-up of rooms. It is used in greenhouses, storage halls, industrial halls, workshops, corridors, residential and commercial buildings.

TECHNICAL DATA			
Power supply:	24 V AC ( $\pm$ 20 %); 1536 V DC for U variant 1536 V DC for I variant, depending on working resistance, residual ripple stabilised $\pm$ 0.3 V		
Working resistance:	$R_a$ (ohm) = $(U_b-14 V) / 0.02 A$ for I variant		
Load resistance:	$R_L > 5  kOhm$ for U variant		
Power consumption:	$< 1\mathrm{W}$ at 24 V DC; $< 2\mathrm{VA}$ at 24 V AC		
Sensor:	light sensor (see beginning of this chapter)		
Measuring ranges:	multi-range switching (via DIP switches)  O500 Lux / 1 kLux / 2 kLux / 5 kLux / 20 kLux / 60 kLux  (optional other individual measuring ranges, e. g. 100 kLux)		
Output:	420 mA or 0-10 V		
Deviation:	typically < 5% of final value		
Ambient temperature:	−30+70°C		
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 dimensions:	72 x 64 x 37.8 mm (Tyr 1)		
Electrical connection:	2- or 3-wire (see connecting diagram), 0.14 -1.5 mm², via terminal screws		
Cable connection:	cable gland, plastic (M16x1.5; with strain relief, exchangeable, inner diameter 10.4mm) or M12 connector according to DIN EN 61076-2-101 (optional on request)		
Connecting cable:	PVC, LiYY, $4 \times 0.14 \text{ mm}^2$ , cable length (KL) = approx. $2 \text{ m}$		
Connecting head:	made of plastic, material polycarbonate (PC), colour white, pluggable, $\emptyset$ = approx. 35 mm, H = approx. 29 mm		
Mounting (sensor):	in the suspended ceiling, ceiling cut-out Ø=30 mm, cover Ø= $<35\text{mm}$		
Protection type:	IP 67 (according to EN 60529) Housing tested, TÜV SÜD, Report No. 713139052 (Tyr 1) IP 30 (according to EN 60529) Sensor in the built-in state		
Protection class:	III (according to EN 60 730)		
Standards:	CE conformity, electromagnetic compatibility according to EN 61326, EMC directive 2014/30/EU		

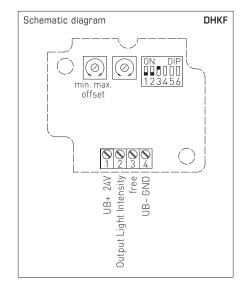




Measuring ranges (adjustable)	DIP 1	DIP 2	DIP 3		
0500 Lux	OFF	OFF	OFF		
O 1 kLux	ON	OFF	OFF		
O 2 kLux	OFF	ON	OFF		
O 5 kLux	ON	ON	OFF		
O 20 kLux (default)	OFF	OFF	ON		
O 60 kLux	ON	OFF	ON		
Note: DIP 4, 5, 6 are not assigned!					

Connect	ing diagram	DHKF-U
© 1 © 2 © 3 © 4	UB+ supply voltage 24V AC/ Output light intensity 0-10V free UB- GND	DC



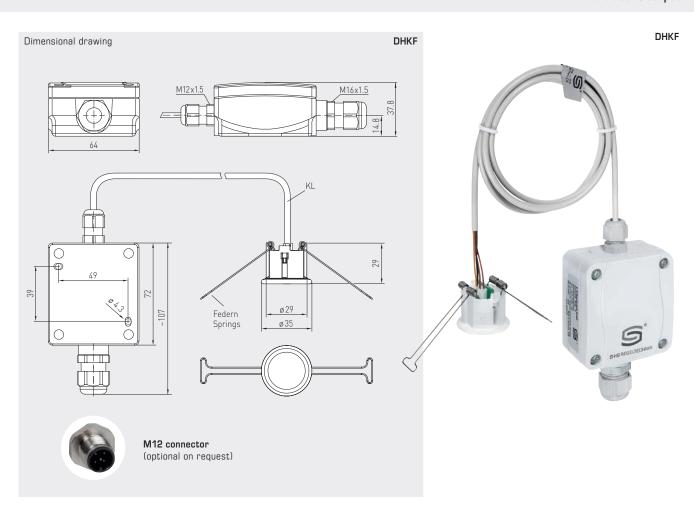


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PHOTASGARD® DHKF In-ceiling light intensity sensors							
Type/WG01	3 3	<b>Output</b> Light Intensity	Item No.	Price			
DHKF							
DHKF I	0500 Lux / 1 / 2 / 5 / 20 / 60 kLux	4 20 mA	1601-6122-1000-000	148,21 €			
DHKF U	0500 Lux / 1 / 2 / 5 / 20 / 60 kLux	0-10 V	1601-6121-1000-000	148,21 €			
Extra charge:	Other individual measuring ranges optional, e.g. 100 kLux		on request				
Optional:	Cable connection with M12 connector according to DIN EN 61076-2-101		on request				