

Outdoor motion sensor and light sensor,  
multisensors with active and switching output

The room motion and light sensor KINASGARD® ABWF / LF is a combined instrument that detects motions and light intensity as well as the presence of persons and is used to recognize conditions. ABWF / LF issues a standard signal of 0 - 10V for light intensity and has a switching (changeover contact) output for the detection of motions.

The motion sensor / presence detector detects the presence of persons and motions. It is used for the observation and recognition of conditions and for a motion-dependent control of room functions, e.g. as motion detector to lower temperatures in unused rooms. The motion sensor is applied in corridors, in outdoor areas, in industrial halls, in offices, residential rooms and business facilities.

The light intensity sensor / twilight sensor 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 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.

#### TECHNICAL DATA:

Power supply: ..... 24V AC / DC

Power consumption: ..... < 1 VA at 24 V DC

Sensor: ..... infrared motion sensor and light sensor photodiode  
with glass case (see beginning of this chapter)

Output, motion sensor: ..... without / with motion  
potential-free normally open contact 24 V

After-running time: ..... adjustable from 4 s to 16 min

Measuring ranges: ..... **multi-range switching** (via DIP switches)  
with 6 switchable measuring ranges  
**0...500 Lux / 1 kLux / 2 kLux / 5 kLux / 20 kLux / 60 kLux**  
(other individual ranges optional, e.g. 100 kLux)

Output: ..... 0-10V (linearised, active, 3-wire connection)

Ambient temperature: ..... -10...+50 °C

Electrical connection: ..... 0.14 - 1.5 mm<sup>2</sup>, 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: ..... 72 x 64 x 37.8 mm (Thor III)

Cable gland: ..... M16x1.5, including strain relief, exchangeable,  
max. inner diameter 10.4 mm

Installation: ..... on-wall

Protection class: ..... III (according to EN 60730)

Protection type: ..... IP 30 (according to EN 60529)

Standards: ..... CE conformity, electromagnetic compatibility  
according to EN 61326 + A1 + A2, EMC directive 2004 / 108 / EC

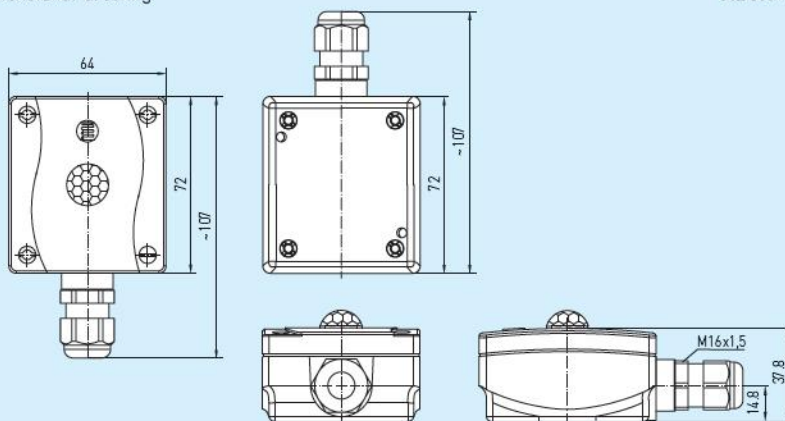
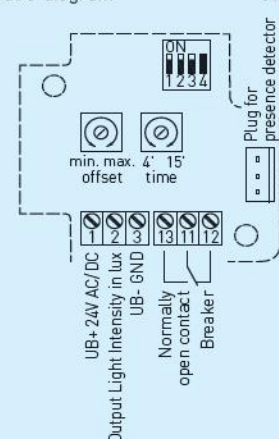
**ABWF / LF**


Measuring ranges (selectable)	DIP 1	DIP 2	DIP 3	DIP 4
0...500 Lux	OFF	OFF	OFF	—
0... 1 kLux	<b>ON</b>	OFF	OFF	—
0... 2 kLux	OFF	<b>ON</b>	OFF	—
0... 5 kLux	<b>ON</b>	<b>ON</b>	OFF	—
0... 20 kLux	OFF	OFF	<b>ON</b>	—
0... 60 kLux	<b>ON</b>	OFF	<b>ON</b>	—

**Connecting diagram**
**ABWF / LF**

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

- 13 Normally open contact
- 11 changeover (24 V)
- 12 Breaker

**Dimensional drawing**
**ABWF / LF**

**Schematic diagram**
**ABWF / LF**


#### KINASGARD® ABWF / LF

Type / WG1	Detection, Measuring Range	Output	Item No.
ABWF-LF			
1. Presence / Motion	Yes / No	Changeover contact	1401-1111-2100-000
2. Light Intensity	0...500 Lux / 1 / 2 / 5 / 20 / 60 kLux	0 -10 V (linearised)	
Extra charge:		Other individual measuring ranges optional, e.g. 100 kLux	