



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

S+S REGELTECHNIK

ABWF/LF

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 $0-10\,\mathrm{V}$ 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



TECHNICAL DATA:

Power supply: at	t U variant: 24 V AC (± 20%); 1536 V DC (± 10%)
at	t I variant: 1536 V DC (± 10%) depending on
W	orking resistance, stabilized, max ripple 0.5 Vpp
Power consumption:<	$1\mathrm{W}$ at $24\mathrm{V}$ DC; $< 2\mathrm{VA}$ at $24\mathrm{V}$ AC
	frared motion sensor and light sensor
(s	see beginning of this chapter)

Output, motion sensor: without / with motion, potential-free normally open contact $24\,V$ / 1AAfter-running time: adjustable from 4 s to 16 min Measuring ranges:.....multi-range switching (via DIP switches)

to control sunshade equipment avoiding unnecessary heating-up of rooms.

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:......O-10 V (linearised, active, 3-wire connection) Measuring error:..... < 5% of final value Ambient temperature: – 30...+ 70°C

Electrical connection: 0.14 - 1.5 mm², via terminal screws on circuit board Enclosure:plastic, material polyamide, 30% glass-globe-reinforced, with quick-locking screws (slotted / Phillips head combination), colour pure traffic white (similar RAL 9016)

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 60730) Protection type:IP 30 (according to EN 60529)

Standards: CE conformity, electromagnetic compatibility according to

EN 61326, EMC directive 2004 / 108 / EC

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	-
O 5 kLux	ON	ON	OFF	-
020 kLux	OFF	OFF	ON	-
0 60 kLux	ON	OFF	ON	_

Connecting diagram

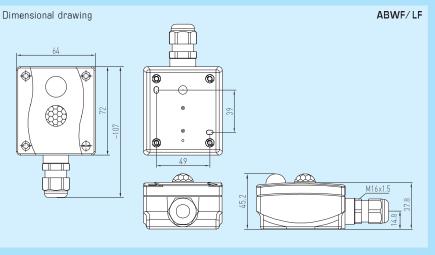
gram		ABWF/LF
ipply voltage	24V AC/DC	

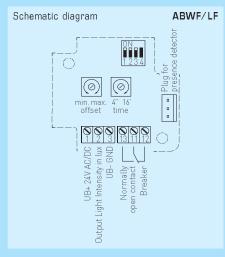
UB+su

Output light intensity 0-10V [linearised] UB- GND

Normally open contact Breaker

changeover [24 V]





KINASGARD® ABWF/LF

Type / WG1	Detection, Measuring Range	Output	ltem N o.	Price
ABWF-LF				
1. Presence/Motion	Yes / No	Changeover contact	1401-1111-2100-000	169,00 €
2. Light Intensity	0500 Lux / 1 / 2 / 5 / 20 / 60 kLux	O -10 V (linearised)		
Extra charge:	Other individual measuring ranges optiona	ıl, e.g. 100 kLux	on request	





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

The room motion and light sensor KINASGARD® RBWF-LF-UP is a combined instrument that detects motions and light intensity as well as the presence of persons and is used to recognize conditions. KINASGARD® RBWF-LF-UP issues a standard signal of 0-10V for light intensity and has a switching (normally open contact) output for the detection of motions This multisensor is used in building automation, in corridors, at workplaces, in industrial halls, in offices and business facilities for the control of lighting as needed, e.g. to control sunshade equipment, for daylight-dependant constant light control, for activating Venetian blinds or luminaries, for automatic energy conservation, and to avoid unnecessary heating-up or cooling of unoccupied rooms for in-wall installation in connection with light switch programmes.

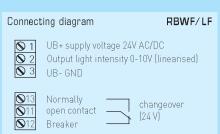
TECHNICAL DATA: Power supply:at U variant: 24 V AC (\pm 20%); 15...36 V DC (\pm 10%) at I variant: $15...36 \, \text{V}$ DC ($\pm \, 10 \, \%$) depending on working resistance, stabilized, max ripple 0.5 Vpp Power consumption:.....
 1 W at 24 V DC; < 2 VA at 24 V AC Sensor:infrared motion sensor and light sensor (see beginning of this chapter) Detection range: perimeter 360°, aperture angle 90° / 110°, reach ca. 10 m, circular Motion detection: of persons and objects, necessary temperature difference between subject and ambience $\geq 5 \, \text{K}$ Output, motion sensor: without \slash with motion, potential-free normally open contact 24 V / 1A After-running time:.....adjustable from 4 s to 16 min Measuring ranges:.....multi-range switching (via DIP switches) with 4 switchable measuring ranges 0...500 Lux / 1 kLux / 5 kLux / 20 kLux (other individual ranges optional, e.g. 100 kLux) Output, light sensor:..........0-10 V (linearised, active, 3-wire connection) Measuring error:.....< 5% of final value Ambient temperature: $0...+50\,^{\circ}C$ Electrical connection: 0.14 - 1.5 mm², via terminal screws on circuit board Enclosure: plastic, material ABS, colour pure white (similar RAL 9010) Installation:wall mounting or on in-wall flush box, Ø55 mm, base with 4-hole for mounting on vertically or horizontally installed in-wall flush boxes for cable entry from the back, with predetermined breaking point for on-wall cable entry from top / bottom in case of plain on-wall installation Protection class: III (according to EN 60730) Protection type:IP20 (according to EN 60529)

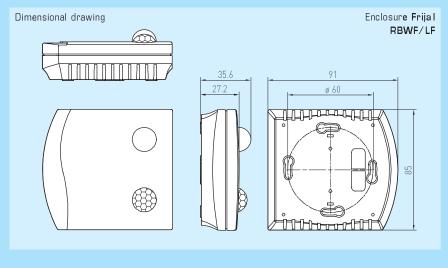
Standards:CE conformity, electromagnetic compatibility according to

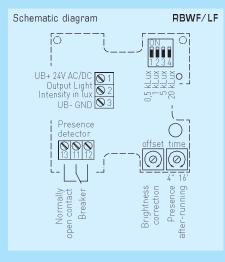
EN 61326, EMC directive 2004 / 108 / EC



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







KINASGARD® RBWF/LF

Type / WG1	Detection, Measuring Range	Output	ltem N o.	Price
RBWF-LF				
1. Presence/Motion	Yes/No	Changeover contact	1401-4121-1100-000	169,00 €
2. Light Intensity	0500 Lux / 1 kLux / 5 kLux / 20 kLux	O -10 V (linearised)		
Extra charge:	Other individual measuring ranges optiona	al, e.g. 100 kLux	on request	