S+S REGELTECHNIK

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

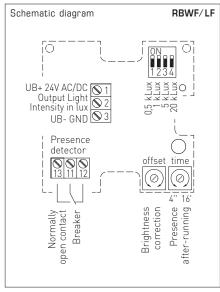
The room motion and light sensor and presence detector ${\bf KIN} {\sf ASGARD}^{\texttt{@}}$ ${\bf RBWF\text{-}LF}$ is a combined instrument that detects motion and light intensity using a diffuser as well as the presence of persons and is used to recognize conditions. RBWF-LF issues a standard signal of $0-10\,\mathrm{V}$ or $4...20\,\mathrm{mA}$ for light intensity and has a switching (normally open contact) output for detecting motion.

This multi-sensor 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.

TECHNICAL DATA			
Power supply:	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		
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 W at 24 V DC; < 2 VA at 24 V AC		
Sensor:	infra-red motion sensor and light sensor with diffuser (see beginning of this chapter)		
Output, motion sensor:	without / with motion + presence, potential-free normally open contact (24V), 1 A ohmic load		
After-running time:	adjustable from 4s to 16 min		
Measuring ranges:	multi-range switching (via DIP switches) with 4 switchable measuring ranges O500 Lux / 1 kLux / 5 kLux / 20 kLux (other individual ranges optional, e.g. 100 kLux)		
Output, light sensor:	0-10V (linearised, active, 3-wire connection) or $420mA$		
Measuring error:	< 5% of final value		
Ambient temperature:	0+50 °C		
Electrical connection:	0.14 - 1.5 mm², via terminal screws on circuit board		
Enclosure:	plastic, material ABS, colour pure white (similar to RAL 9010)		
Dimensions:	85 x 85 x 27 mm (Baldur 1)		
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 2014/30/EU		

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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



Connect	ing diagram		RBWF/LF-U
№ 1№ 2№ 3	UB+ supply volta Output light inte UB- GND	9	
№13№11№12	Normally - open contact - Breaker -		changeover (24 V)

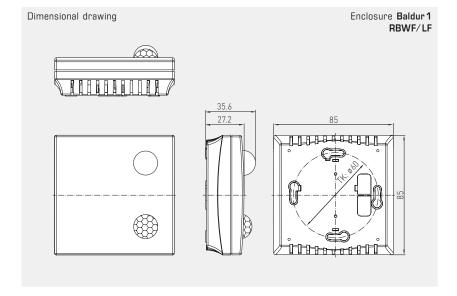
Connect	ing diagram	RBWF/LF-I	
№ 1№ 2№ 3	UB+ supply voltage 24V AC/DC Output light intensity 420mA UB- GND		
№13№11№12	Normally open contact Breaker	changeover [24 V]	



Room motion sensor and light sensor,

multisensors with active and switching output

RBWF/LF





KINASGARD® RBWF/LF — Room motion sensor and light sensor					
Type / WG01	Detection, Measuring Range	Output	ltem No.	Price	
RBWF-LF-U					
1. Presence + Motion	Yes/No (relay on/off)	Changeover contact	1401-41A1-1100-000	139,20 €	
2. Light Intensity	0500 Lux / 1 kLux / 5 kLux / 20 kLux	O -10 V (linearisiert)			
RBWF-LF-I					
1. Presence + Motion	Yes/No (relay on/off)	Changeover contact	1401-41A1-3200-000	139,20 €	
2. Light Intensity	0500 Lux / 1 kLux / 5 kLux / 20 kLux	420 mA			
Extra charge:	Other individual measuring ranges option	nal, e.g. 100 kLux	on request		