Outdoor motion sensor with switching output



The motion sensor / presence detector KINASGARD® ABWF detects the presence of persons and motions. It is used for the observation and recognition of conditions and for a motiondependent 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 sensor detects motions over an aperture angle of 110° and a perimeter of 360°. Because of the patented lens system with 20 individual lenses, only very small dark areas are resulting, which even at a distance of 10 m are only a few centimeters wide, safely detecting also small motions. The sensor recognizes changes in the infrared radiation spectrum, so in heat radiation, resulting form the movement of persons or objects. Such movements generate a temporary change of the temperature gradient in the field. Because of the always present body (heat) radiation, this sensor is excellently suitable for the detection of persons. The temperature difference between sensor and object must be $>5\,\mathrm{K}$.

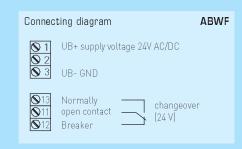
TECHNICAL DATA:

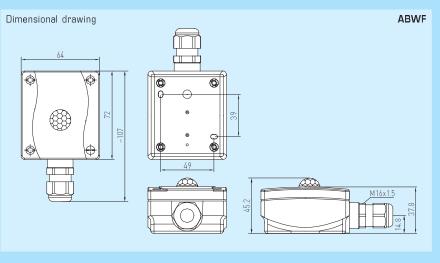
Power supply:at U variant: 24 V AC (±20%); 15...36 V DC (±10%) at I variant: $15...36 \text{ V DC } (\pm 10 \%)$ depending on working resistance, stabilized, max ripple 0.5 Vpp Power consumption:.....
 1 W at 24 V DC; < 2 VA at 24 V AC Sensor:infrared motion sensor (see beginning of this chapter) Detection 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:.....without / with motion, potential-free changeover contact 24 V / 1A After-running time:.....adjustable from 4s to 16 min 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)

Standards:CE conformity, electromagnetic compatibility according to

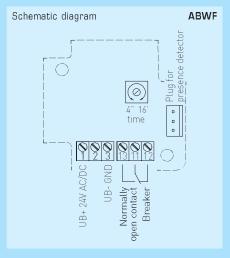
Protection type: IP 65 (according to EN 60529)







EN 61326, EMC directive 2004 / 108 / EC



KINASGARD® ABWF

Type / WG1	Detection Presence / Motion	Output Presence / Motion	Item No.	Price
ABWF				
ABWF-W	Yes / No	Changeover contact	1401-1110-4000-000	105,00 €



S+S REGELTECHNIK

Room motion sensor with switching output

The motion sensor / presence detector KINASGARD® RBWF detects the presence of persons and motions and has a switching output (changeover contact). The sensor detects motions over an aperture angle of 110° and a perimeter of 360° . Because of the patented lens system with 20 individual lenses, only very small dark areas are resulting, which even at a distance of $10\,\mathrm{m}$ are only a few centimeters wide, safely detecting also small motions. Elegant enclosure made of plastic with snap-on lid, base with 4-hole attachment for installation on vertically or horizontally installed in-wall flush boxes, with predetermined breaking point for on-wall cable entry in case of on-wall installation. The room motion sensor is used for the observation and recognition of conditions and for the motion-dependent control of room functions, e.g. for lowering temperatures in unused rooms as motion detector. This residential room motion detector is installed in corridors, in outdoor areas, in industrial halls, in offices, in residential rooms and business facilities.

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 (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 ≥ 5 K

Output:.....without/with motion,

potential-free changeover contact (24 V)

After-running time: adjustable von 4 s to 16 min

Measuring error:.....< 5% of final value

Electrical connection: $0.14 - 1.5 \ \text{mm}^2$, via terminal screws on circuit board Enclosure: plastic, material ABS, colour pure white (similar RAL 9010)

Dimensions:......85 x 91 x 27 mm (Frijal)

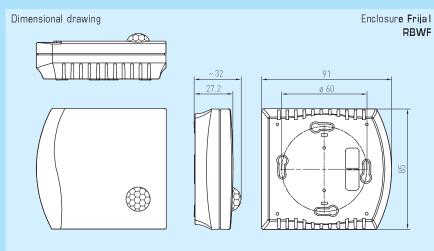
Mounting:wall mounting or on in-wall flush box, Ø55mm,

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:IP 30 (according to EN 60529)

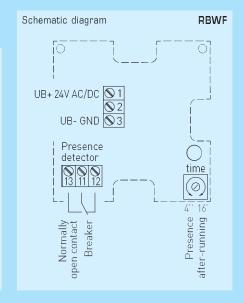
Standards:CE conformity, electromagnetic compatibility according to

EN 61326, EMC directive 2004 / 108 / EC









KINASGARD® RBWF

Type / WG1	Detection Presence / Motion	Output Presence / Motion	Item No.	Price
RBWF				
RBWF-W	Yes / No	Changeover contact	1401-4120-4000-000	105,00 €