ACCESS CODE

The access code (1 to 4 digits) is recommended to program sensors installed close to each other.
If you forget the access code, **cycle the power supply**.
Within the first minute, you can access the sensor without introducing any access code.

SAVING OR CHANGING AN ACCESS CODE:



DELETING AN ACCESS CODE:



TROUBLESHOOTING

The door will not open. The LED is OFF.	The sensor power is off.	1 Check the wiring and the power supply.
The door will not close. The LED is OFF.	Improper output configuration on the sensor.	1 Check the output configuration setting on each sensor connected to the door operator. 2 Verify door control is operational.
The door opens and closes constantly. The blue LED is on.	The sensor is disturbed by the door motion or vibrations caused by the door motion.	1 Make sure the sensor is mounted properly. 2 Make sure the detection mode is unidirectional. 3 Increase the tilt angle. 4 Reduce the field size. 5 Increase the immunity filter.
It rains and the sensor detects for no apparent reason. The blue LED is on.	The sensor detects the motion of the rain drops.	1 Make sure the detection mode is unidirectional. 2 Increase the immunity filter. 3 Install the ERC (rain accessory).
The sensor detects objects outside its detection field. The blue LED is on.	Metallic environment	1 Increase the immunity filter. 2 Decrease the field size.
The blue LED flashes quickly after unlocking.	The sensor needs an access code to unlock.	1 Enter an access code. 2 Cut and restore the power supply to access the sensor. Change or delete the access code.
The sensor does not respond to the remote control.	Batteries in the remote control are weak or installed improperly.	1 Check and change the batteries if necessary.
	Remote control incorrectly oriented.	1 Point the remote control towards the sensor.

24/7 Technical Support:
1-800-407-4545

Customer Service:
1-800-523-2462

General Technical Questions:
Tech_Services@beainc.com

Technical Documentation:
www.beasensors.com

The complete declaration of conformity is available by contacting BEA

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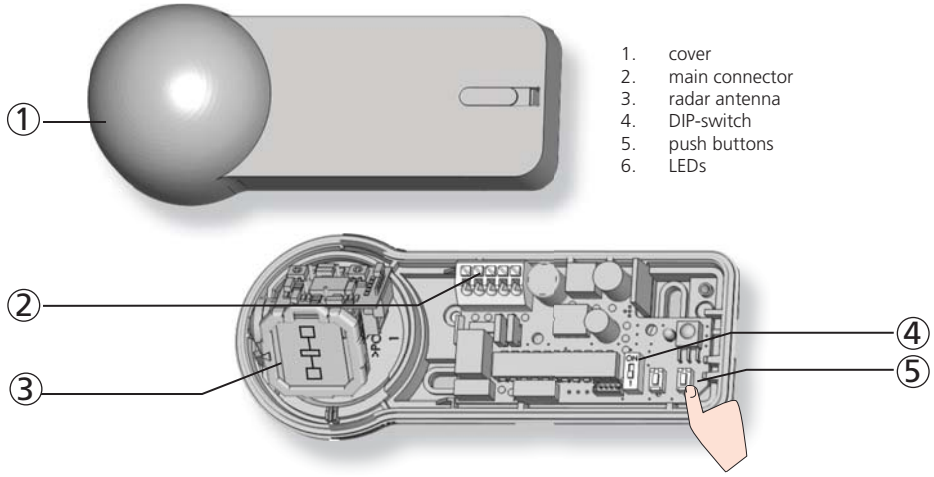
A HALMA COMPANY

SPARROW

Motion activation sensor
for automatic industrial doors*

ENGLISH

DESCRIPTION



1. cover
2. main connector
3. radar antenna
4. DIP-switch
5. push buttons
6. LEDs

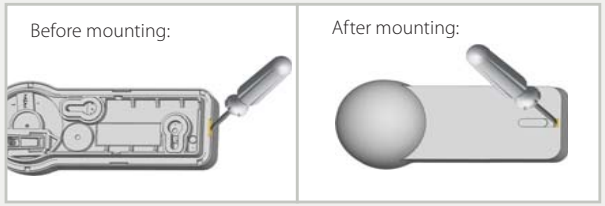
TECHNICAL SPECIFICATIONS

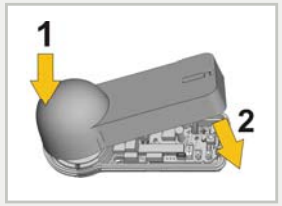
Technology:	microwave
Transmitter frequency:	24.150 GHz
Transmitter radiated power:	< 20 dBm EIRP
Transmitter power density:	< 5 mW/cm²
Detection mode:	motion
Min. detection speed:	2 in/s (measured in the sensor axis)
Supply voltage:	12V to 24V AC ±10%; 12V to 24V DC +30% / -10%
Mains frequency:	50 to 60 Hz
Max power consumption:	< 2 W
Output:	relay (free of potential change-over contact)
Max. contact voltage:	42V AC - 60V DC
Max. contact current:	1A (resistive)
Max. switching power:	30W (DC) / 60VA (AC)
Mounting height:	6.5 ft to 20 ft
Degree of protection:	IP64
Temperature range:	-22 °F to + 140 °F
Dimensions:	5.51 in (L) x 2.17 in (H) x 2.25 in (W)
Tilt angles:	0° to 90° vertical; -120° to +120° lateral
Material:	ABS
Weight:	5.8 oz
Cable length:	30 ft
Norm conformity:	R&TTE 1999/5/EC; EMC 2004/108/EC

Specifications are subject to changes without prior notice.

*** Other use of the device is outside the intended purpose and can not be guaranteed by the manufacturer.**

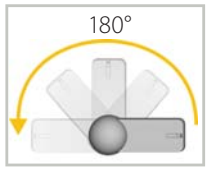
1 OPENING & CLOSING



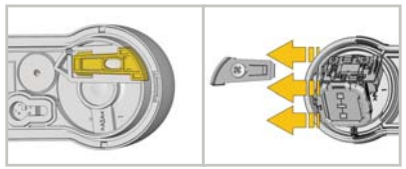


2 MOUNTING & WIRING

TIPS

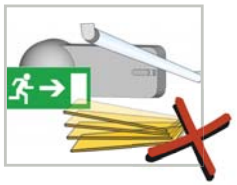


The sensor can be installed in various positions. Always verify the antenna position.

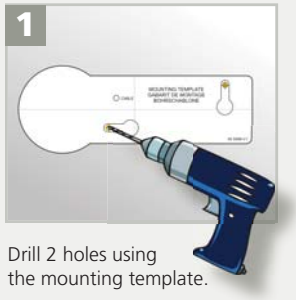


The sensor can easily replace other sensors by using the retrofit clip.

1. Remove the clip.
2. Mount it with the existing screw.
3. Slide the sensor onto the clip.



Avoid proximity to neon lamps or moving objects. Do not cover the sensor.

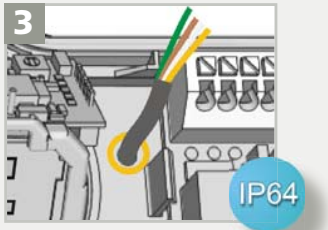


Drill 2 holes using the mounting template.

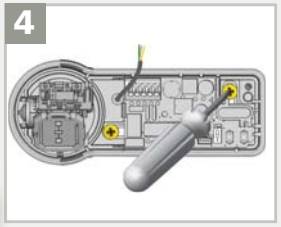


Drill a hole for the cable and pull it through...

... or use one of the cable conduits. Avoid using the top conduit to ensure weatherproofness.



Pass the cable through the opening.

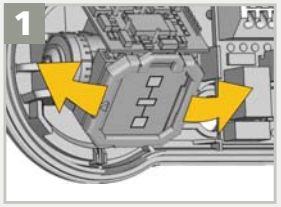


Mount the sensor firmly to avoid vibrations.

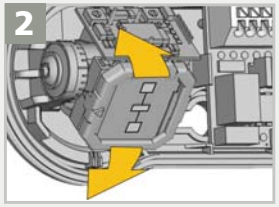


Connect the wires accordingly.
12-24 AC/DC - Brown, Green
COM - White NO/NC - Yellow

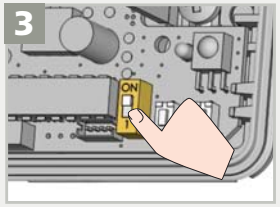
3 DETECTION FIELD



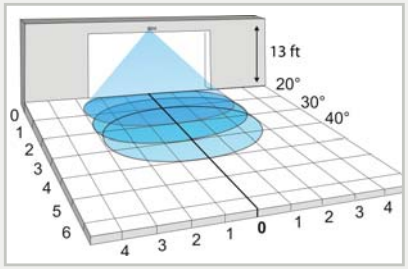
Adjust the lateral antenna angle.



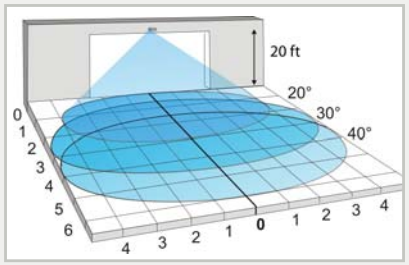
Adjust the vertical antenna angle.



If mounting height > 14.5 ft, activate BOOST function by DIP-switch.



Mounting height: 13 ft
Boost function: OFF
Factory values



Mounting height: 20 ft
Boost function: ON
Factory values

4 SETTINGS (by remote control or push buttons)

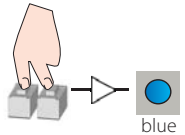


FIELD SIZE		XXS	XS	S	<	<	>	>	L	XL	XXL
IMMUNITY FILTER			normal	high							
DETECTION MODE			bi	uni	uni AWAY	bi = two-way detection uni = one-way detection towards sensor uni AWAY = one-way detection away from sensor					
OUTPUT CONFIGURATION			A	P		A = active output (NO-contact) P = passive output (NC-contact)					

RESETTING TO FACTORY VALUES:

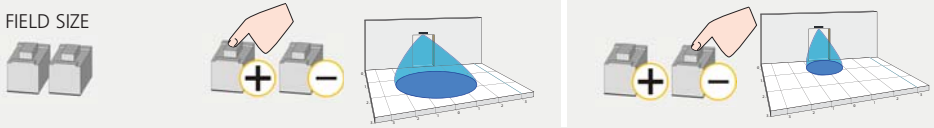


OR



FACTORY VALUES

FIELD SIZE



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