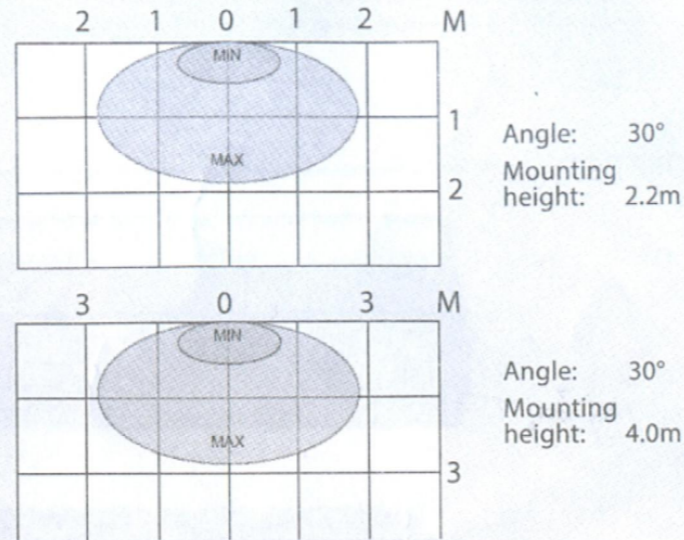




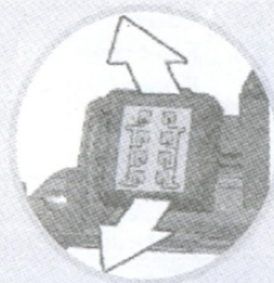
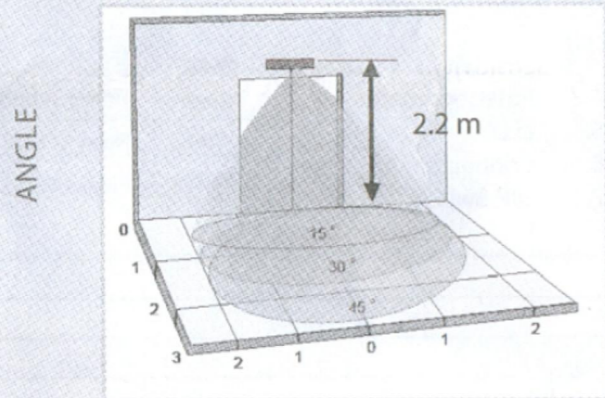
1 Size of sensing field: sensitivity settings.



ON 1 2	1 Mounting Height	2 Immunity
ON	4m	High
OFF Factory Value	3m	Low

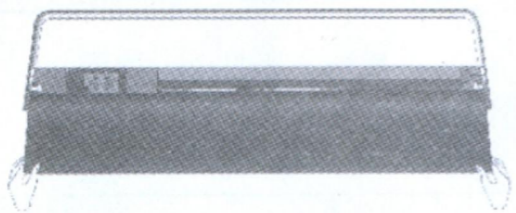


2 Depth of sensing field: vertical angle of the planar antenna.



3 Open and close.

As the followed photo, remove the front face from ZEN by putting finger at both end.



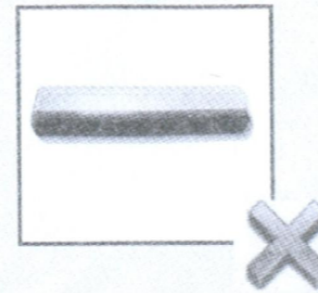
OPEN

Align the top edge first and then push at both end, to close the front face.

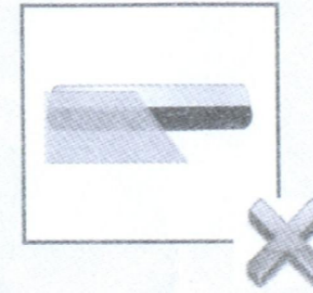


CLOSE

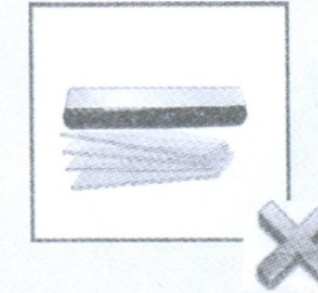
4 Installation tips.



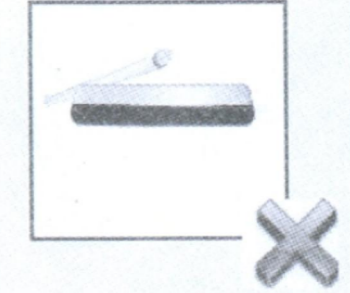
Avoid extreme vibrations.



Do not cover the sensor.



Avoid moving objects and light sources in the detection field.



Avoid highly reflective objects in the infrared field.

TROUBLESHOOTING

The door will not open and LED is OFF.

The sensor power is off.

1 Check the wiring and the power supply.

The door opens and closes constantly.

The sensor "sees" the door moving. When closing, the door creates vibrations picked up by the sensor.

1 Increase the tilt angle and/or reduce the sensitivity.
2 Make sure that the sensor is correctly fixed.

The door will not close. LED is OFF.

ON-OFF switch at door control is in wrong position or faulty.

1 Make sure that the ON-OFF switch for the door is in the ON or AUTOMATIC position.

Detection area is too small

Sensitivity is too low
Mounting height mode incorrectly setting

1 Increase the sensitivity via potentionmeter
2 Set the dip-switch-1 at "ON" position when mounting height is higher than 3m

SAFETY INSTRUCTIONS



The manufacturer of the door system is responsible for carrying out a risk assessment and installing the sensor and the door system in compliance with applicable national and international regulations and standards on door safety. Only trained and qualified personnel may install and setup the sensor. The warranty is void if unauthorized repairs are made or attempted by unauthorized personnel. Avoid touching any electronic and optical components.

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Angleur, November 2010 Jean-Pierre Valkenberg, Authorized representative
The complete declaration of conformity is available on our website: www.bea.be

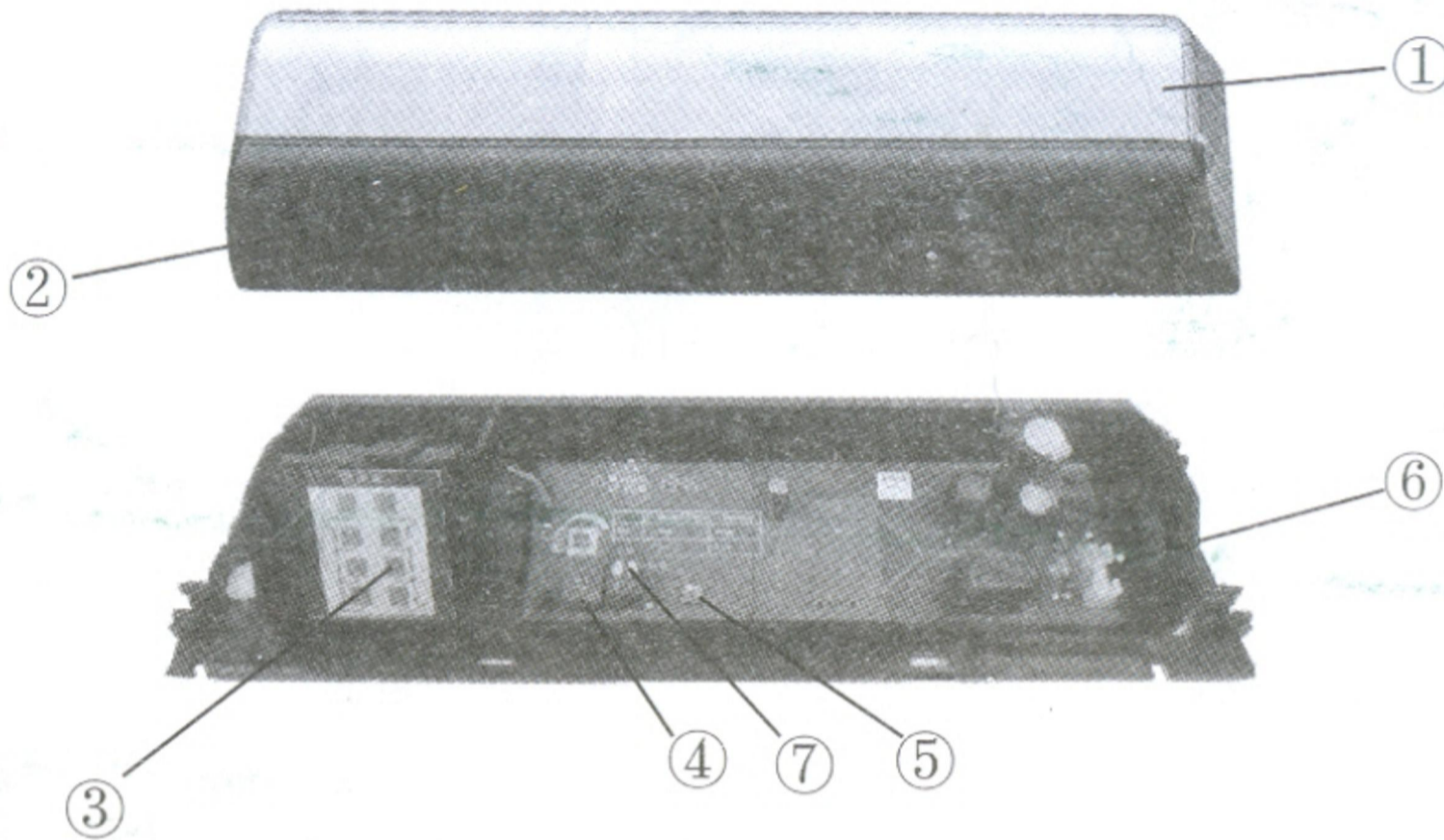


ZEN/ZEN VF

Other use of the device is outside the permitted purpose and can not be guaranteed by the manufacturer. The manufacturer cannot be held responsible for incorrect installations or inappropriate adjustments of the sensor.

Opening sensor for automatic sliding doors

DESCRIPTION



- 1. Cover
- 2. Front cover
- 3. Planar antenna

- 4. Potentionmeter
- 5. LED
- 6. Connector
- 7. DIP-Switch

Brown	
Green	Power supply
White	Relay (COM)
Yellow	Relay (NO)

TECHNICAL SPECIFICATIONS

Technology:	microwave and microprocessor
Transmitter frequency:	24.125GHz
Transmitter radiated power:	<20 dBm EIRP
Transmitter power density:	< 5mW/cm ²
Maximum mounting height:	4m
Tilt angles:	15°- 45°
Max. detection field:	4m x 2m (mounting height=2.2m)
Detection mode:	motion
Minimum speed:	5 cm/s (measured in the sensor axis)
Maximum speed of ZEN VF	180 cm/s
Supply voltage:	12V to 24V AC +/- 10%; 12V to 30V DC
Mains frequency:	50 to 60 Hz
Power consumption:	< 2W (VA)
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)
Output hold time:	0.5s
Temperature range:	-20°C to +55°C
Protection Degree:	IP54

Specifications are subject to changes without prior notice.
All values measured in optimal conditions.

D-SIGNALS

	The ORANGE LED flashes every second.	The sensor goes into security mode.	1 Cut and restore power supply.
	The ORANGE LED flashes 1 x.	The sensor signals an internal fault.	1 Cut and restore power supply. 2 If orange LED flashes again, replace sensor.
	The ORANGE LED is on.	The sensor encounters a memory problem.	1 Cut and restore power supply. 2 If orange LED lights up again, replace sensor.
	The RED LED flashes quickly after a setup.	The sensor sees the door during the setup.	1 Check the angle of the IR-curtains. 2 Launch a new setup. Attention: Do not stand in the detection field!
	The RED LED lights up sporadically.	The sensor vibrates.	1 Check if the sensor is fastened firmly. 2 Check position of prism and cover.
	The sensor sees the door.	1 Launch a setup and adjust the IR angle.	
	Ghosting	1 Change radar antenna angle.	
	The sensor vibrates.	1 Check if the sensor is fastened firmly. 2 Check position of cable and cover.	
	The sensor sees the door or other moving objects.	1 Remove the objects if possible. 2 Change radar antenna. 3 Change radar field size (sensitivity).	
	The reaction of the door does not correspond to the LED-signal.	1 Check wiring.	

SAFETY INSTRUCTIONS

The manufacturer of the door system is responsible for carrying out a risk assessment and installing the sensor and the door system in compliance with applicable national and international regulations and standards on door safety. Only trained and qualified personnel may install and setup the sensor. The warranty is void if unauthorized repairs are made or attempted by unauthorized personnel. Avoid touching any electronic and optical components.

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Angleur, November 2010 Jean-Pierre Valkenberg, Authorized representative
The complete declaration of conformity is available on our website: www.bea.be



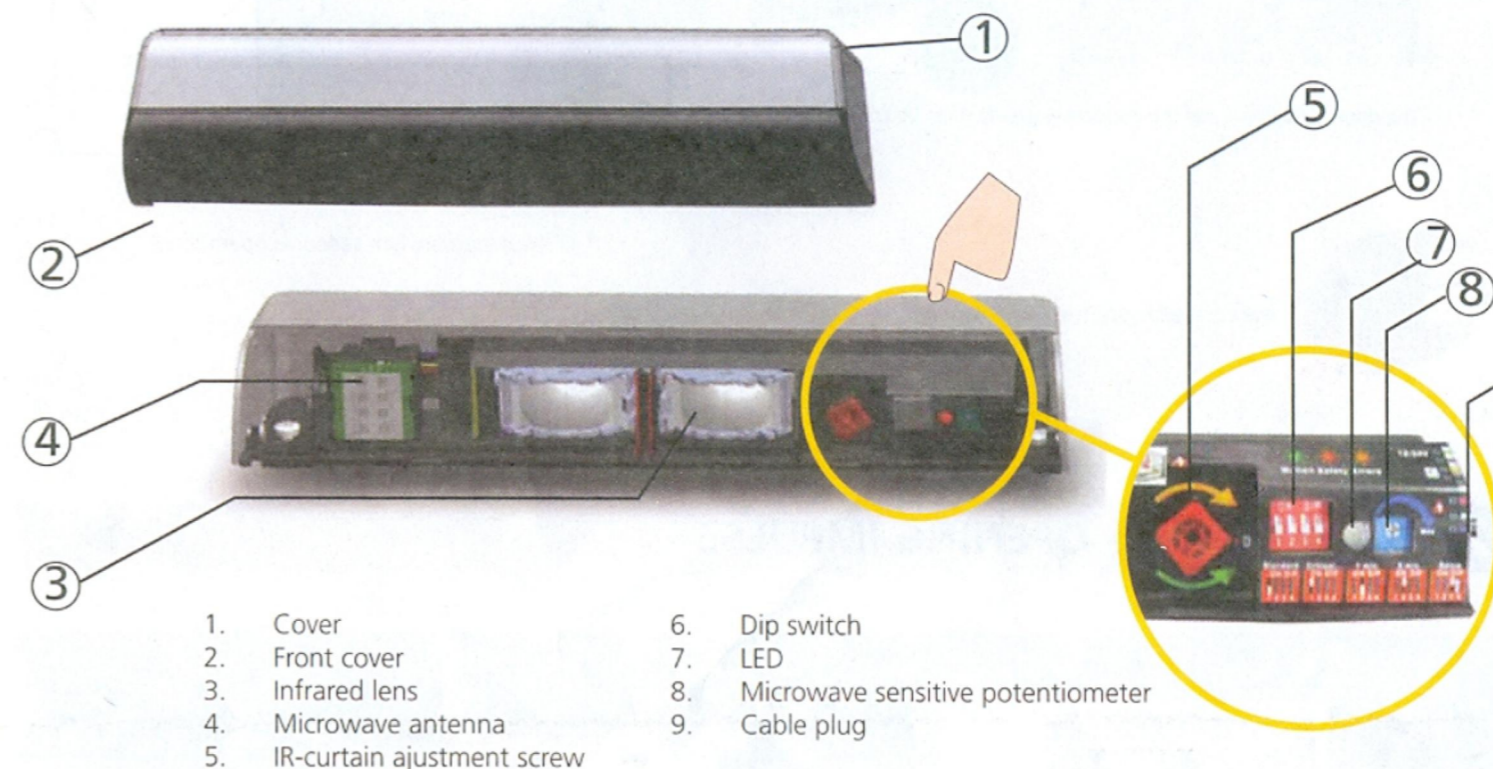
Only for EC countries: According to the European Guideline 2002/96/EC for Waste Electrical and Electronic Equipment (WEEE)

ZENSAFE

Opening & safety sensor for automatic sliding doors

Other use of the device is outside the permitted purpose and can not be guaranteed by the manufacturer. The manufacturer cannot be held responsible for incorrect installations or inappropriate adjustments of the sensor.

DESCRIPTION



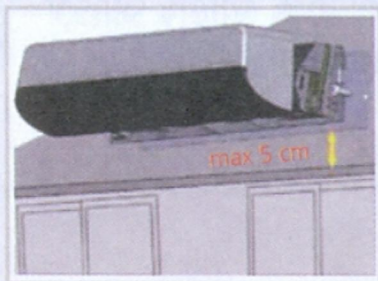
TECHNICAL SPECIFICATIONS

Supply voltage:	12 V - 24 V AC +/-10% ; 12 V - 30 V DC 0%/+10%
Power consumption:	< 3 W
Mounting height:	1.8 m to 3 m
Temperature range:	-25 °C to +55 °C
Degree of protection:	IP54

	GREEN LED	RED LED
Detection mode:	Motion Min. detection speed: 5 cm/s	Presence Typical response time: <128 ms (max. 500 ms)
Technology:	Microwave doppler radar Transmitter frequency: 24.150 GHz Transmitter radiated power: < 20 dBm EIRP Transmitter power density: < 5 mW/cm ²	Active infrared with background analysis Spot diameter: 6 cm (typ) Number of spots: 24 by curtain Number of curtains: 1
Angle:	From 15 ° to 45 ° vertical (adjustable)	From -5 ° to +8 ° (adjustable)
Output:	Relay (free of potential) Max. contact voltage: 42 V AC/DC Max. contact current: 1 A (resistive) Max. switching power: 30 W (DC)/60 VA (AC)	Relay (free of potential) Max. contact voltage: 42 V AC/DC Max. contact current: 1 A (resistive) Max. switching power: 30 W (DC)/60 VA (AC)
Hold time output signal:	0.5 s	0.5 s

Specifications are subject to changes without prior notice
All values measured in optimal conditions

MOUNTING & WIRING



The door control unit and the door cover profile must be correctly earthed.



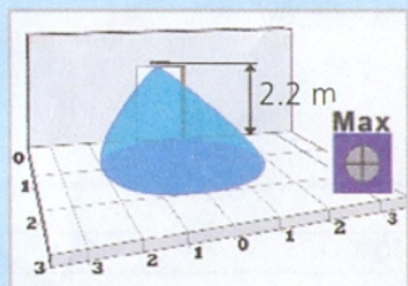
Please make sure the cable connector is maintained the IP class.

* Output status when sensor is operational

RADAR FIELD - OPENING IMPULSE



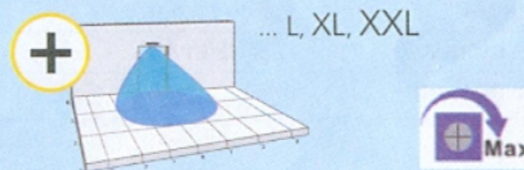
WIDTH



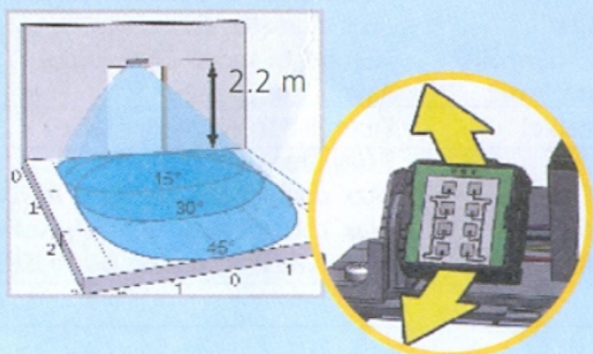
The maximum detection field is 4 m x 2 m.

The width of the radar field varies according to the mounting height of the sensor.

FIELD SIZE



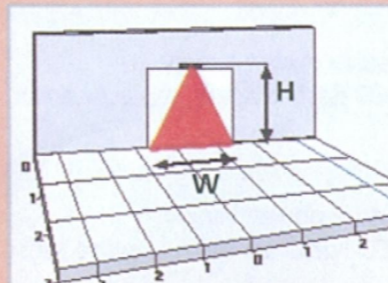
ANGLE



3 INFRARED FIELD - SAFETY



WIDTH



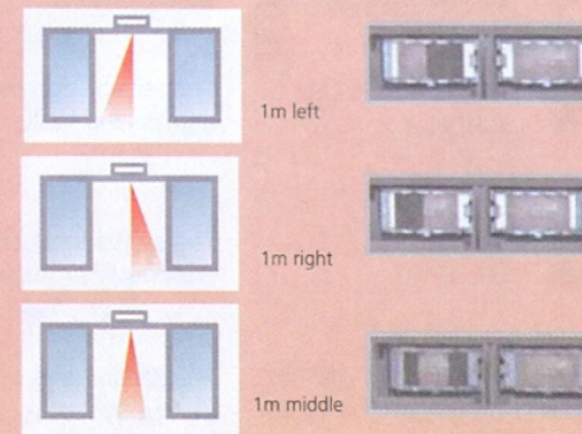
Max. mounting height: 3 m

Use mask to get different areas of detection field.

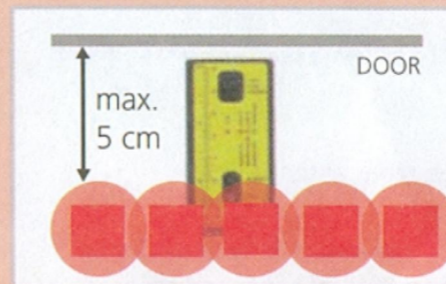
H	W
2.20 m	2.20 m
2.50 m	2.50 m
3.00 m	3.00 m

Measured in optimal conditions.

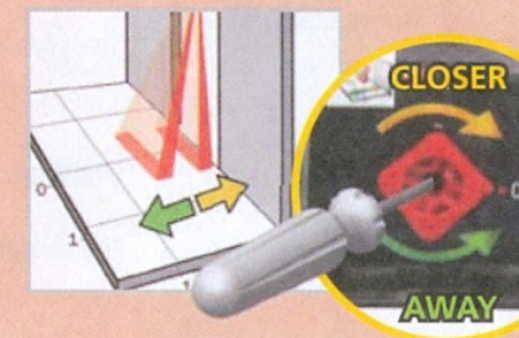
* Mask is an accessory.



ANGLE



Spont finder LED



4 SETUP

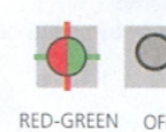
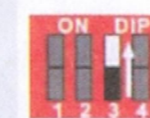
Dip switch



Step out of the detection field during setup.

	1	2	3	4
▲ ON	Critical environment/outdoor *	Presence time 5min	Push from OFF to ON, start assistance set up	Reservation
▼ OFF	Indoor	Presence time 1min		

Assistance setting



* The critical environment/outdoor sensitivity is decreased, and the immunity is increased.

IMPORTANT: Test the good functioning of the installation before leaving the premises.

It is recommended to clean the optical parts at least once a year or more often if required due to environmental conditions.