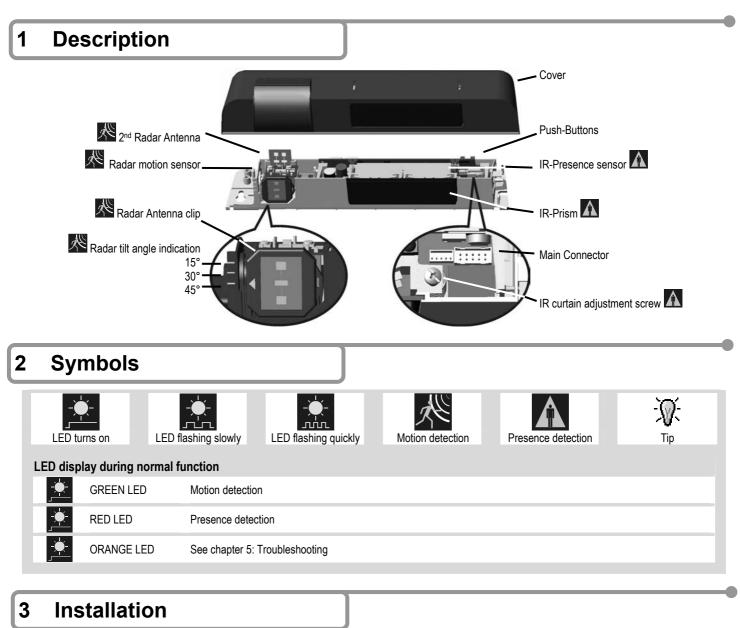
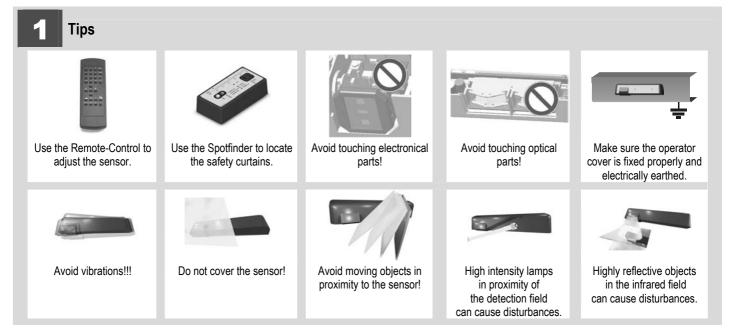
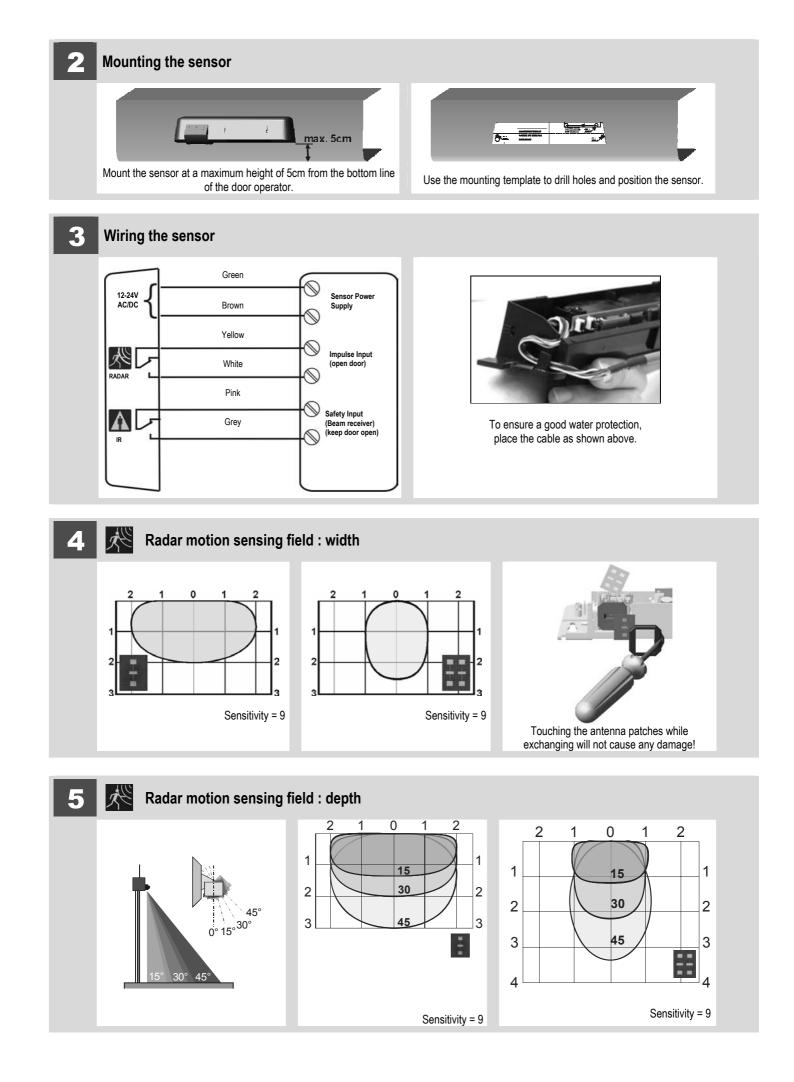


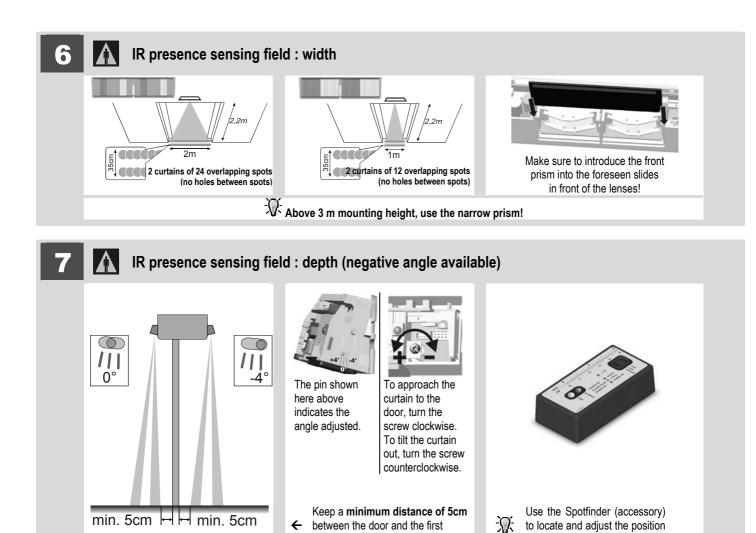
ACTIV8 ONE OFF USER'S GUIDE

COMBINED RADAR OPENING AND ACTIVE INFRARED SAFETY SENSOR







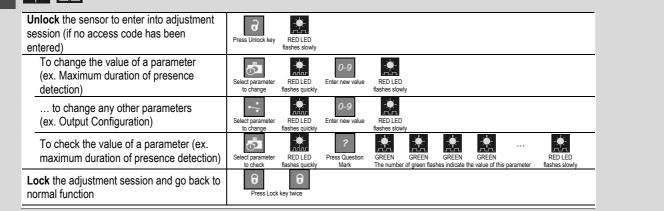


When mounting one sensor on each side of the door above a highly reflective threshold, select different frequencies to avoid crosstalk between the sensors (see setting "Installation configuration" on p.5).

of the curtains.

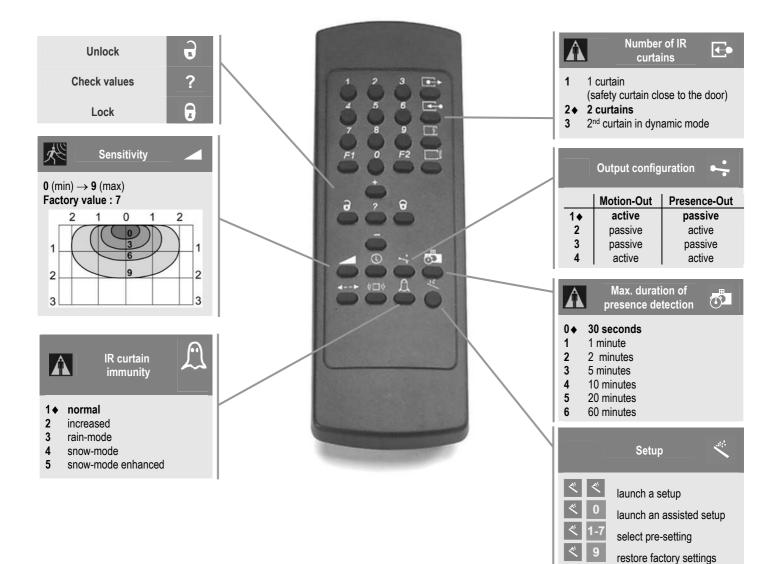
curtain.

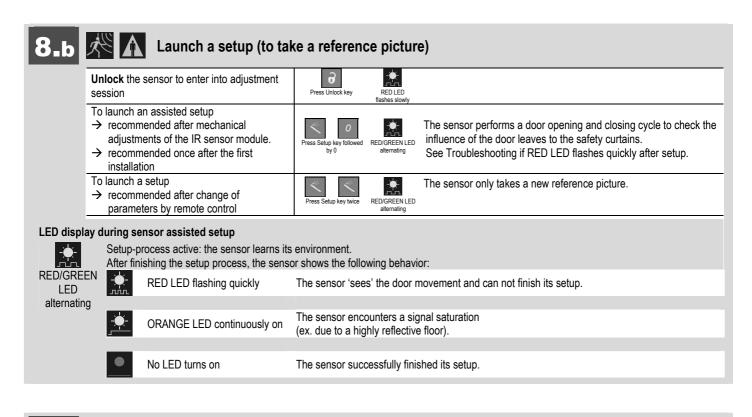
Remote Control adjustments (only when factory settings do not match)



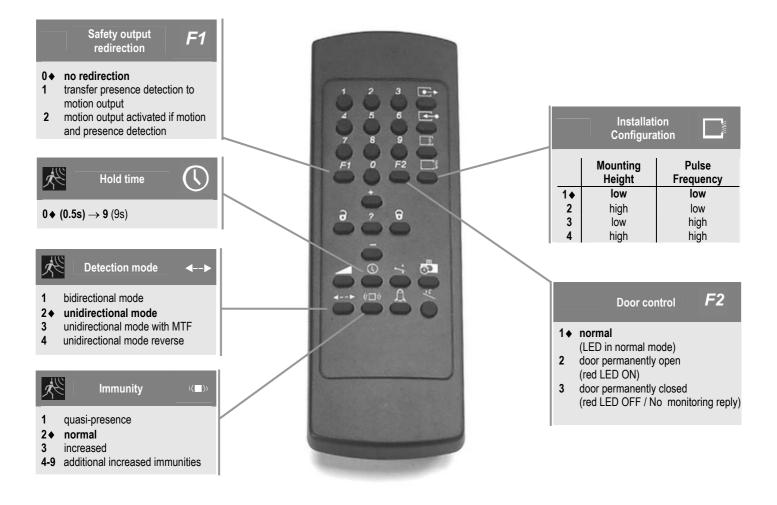
8_a 🧩 \Lambda Important Remote Control adjustments

8





8.c 🕅 Additional Remote Control adjustments



4 Installation Tips

High mounting height (>3m)	If the sensor is installed higher than 3m above the floor, make sure to use the narrow prism (see chapter "3 Installation" § 6). Also, set the sensor to "High Mounting":			
	or 4	Installation Configuration	High Mounting Height	
Outside installation	Set the sensor to presetting 3 or 4 to increase the immunity of the sensor:			
	≪ 3	Presetting 3	External installation, vulnerable users	
	* 4	Presetting 4	External installation, normal users	
Rain/Snow	If the sensor is exposed to rain or snow, use the URC (Universal Rain Cover)			
	Set the sensor to presetting 3 or 4 to increase the immunity of the sensor. You can reduce the influence of rain and snow even more when selecting the RAIN or SNOW mode for the IR curtain immunity:			
	<u>A</u> 3	RAIN mode		
	① 4	SNOW mode		
	魚 5	SNOW mode enhanced		
Reflective environments	The additional increased radar immunity modes (4-9) reduce disturbances of the motion sensor in highly reflective environments (airlocks, curved and round sliding doors, metallic environments etc.).			
environmenta	« = » 4-9	Additional increased immunities		
Inside installation	If the sensor	is installed inside a building, set the sense	or to presetting 1 or 2:	
	* 1	Presetting 1	Internal installation, vulnerable users	
	* 2	Presetting 2	Internal installation, normal users	
Setup	< 0	Assisted Setup (~14sec)	Sensor checks the influence of the door leaves to the IR curtains (performs a door open/door close cycle)	
	~ <	Standard Setup (~4sec)	Sensor only learns its environment	
	Installation"	§ 8.2 for more information about the LED d	sor for the first time, it is recommended to launch an "Assisted Setup". Refer to chapter "3 nore information about the LED display) e "sees" the door movement, move the curtains out of the door leaves.	
A O l .				
Access Code	The access code is recommended to set sensors close to each other with remote control. The access code can be composed of 1 to 4 digits (factory values or no access code : 0 or 0000). No code is required to unlock during the first minute after powering.			
Overlapping IR-curtains	Overlapping IR-curtains from sensors installed side-by-side may cause disturbances due to crosstalk (interferences). Select different frequencies on each sensor to avoid crosstalk (see setting "Installation configuration" on p.5). Attention: avoid curtains that are overlapping by more than 30cm (at 2,2m mounting height, using the wide prism).			
Only one single Impulse input on door	If your door controller has only one single impulse input for motion impulse (open the door) and no safety input (keep the door open), use the "Safety Output Redirection" to transfer the safety detection (IR sensor module) to the motion impulse output and connect only the motion output to your door controller:			
controller	F1 1	Safety Output Redirection	1 (= transfer presence detection to the motion output)	
Check the wiring	Push the left push button to release the outputs. The door should close and the LED should switch off.			
Push Buttons	For more information on the use of the push buttons, ask our application note.			
Monitoring of safety sensor	If your door controller monitors its safety sensors, you have to order an ACTIV8 ONE ON or ACTIV8 ONE PULSE.			

5 Troubleshooting

SYMPTOMS	POSSIBLE CAUSES	CORRECTIVE ACTION
Red LED flashing quickly after an assisted	The sensor 'sees' the door movement and	Adjust the position of the IR curtains.
setup.	can not finish its setup.	
Orange LED ON	The sensor encounters a signal saturation.	Use the wide-field prism and/or slightly increase the IR curtains angle (turning the screw counterclockwise). Launch an assisted setup.
Orange LED flashes	The sensor signals an internal fault.	Cut and restore the power supply. If the orange LED lights up again, replace faulty sensor.
Red LED ON	The sensor detects a presence.	Wait the time set in "maximum duration of presence detection" setting or launch an assisted setup (with the remote control or right push button).
Unwanted presence detection	The sensor is not placed properly and/or the front face is not properly fixed.	Fasten the sensor firmly and/or check whether the front face prism is placed into the foreseen slides (see section 6) and not in the sensor cover.
Door keeps recycling open-closed.	The sensor is disturbed by the door motion because it sees the door or because of vibrations.	Green LED signals a motion detection: increase the radar angle. Increase the radar immunity. Red LED signals infrared detection: increase the IR curtains angle (turning the screw counterclockwise).
The door is not closing. LED OFF	On-Off switch at door control is in wrong position or is faulty.	Check to insure that On-Off switch for door is in the ON or AUTOMATIC position.
	Improper output configuration on the sensor.	Check the output configuration setting on each sensor.
The presence detection is disturbed by the rain (red LED)		Increase the immunity of the curtains (immunity 3 up to 5)
The radar detection is disturbed by the rain (green LED).		Check whether the unidirectional mode is selected and the MTF function is disabled. Increase the radar immunity.
The sensor does not unlock when access code is entered.	Improper code being entered.	Cut and restore power supply. No code is required to unlock during the first minute after powering. Press on "unlock", then on "lock" and introduce a new access code.
The sensor does not respond to the remote control.	 Batteries in the remote control are dead or not installed properly. Remote control badly pointed. 	 Check to insure that the batteries are installed correctly or replace batteries. Point the remote control towards the sensor.
In airlock vestibules, the sensor sees the opposite door.		Increase radar immunity.
In metallic environments, the sensor detects objects outside of its detection field.		Increase radar immunity.

6 Technical Specifications

Supply voltage	: 12V (- 5%) to 24V (+10%) AC/DC
Mains frequency	: 50 - 60 Hz
Power consumption	:<3W
Mounting height	: 1.8m to 4m
3-color LED	: RED (presence detection) – GREEN (motion detection) – ORANGE (signal saturation, error)
Temperature range	: -25°C to +55°C
Degree of protection	: IP54
Norm conformity	: R&TTE 1999/5/EC; EMC 89/336/EEC
Dimensions	: 262 mm (L) x 55 mm (H) x 44 mm (D)
Weight	: 250 g
Housing material	: ABS + LURAN S
Minimum length of cable	: ± 2.6 m
Range of Remote Control	:5m

	MOTION SENSOR	A PRESENCE SENSOR
Detection mode	Motion	Presence
	Minimum detection speed: 5 cm/s (measured in sensor axis)	Typical response time: < 128ms (< 500ms in extreme cases)
Technology	Microwave and microprocessor	Focused active infrared and self-monitored microprocessor
	Transmitter frequency: 24.175 GHz	Spot diameter (standard): 0.1m max
	Transmitter radiated power: < 20 dBm EIRP	Number of spots: 24 or 12 spots by curtain
	Transmitter power density: < 5 mW/cm ²	Number of curtains: 2
Detection field	Width Depth	Width Depth
	Wide 4 m 2 m	Wide 2 m 0,35 m
	Narrow 2 m 2,5 m	Narrow 1 m 0,35 m
Angle	From 15° to 50° in elevation (adjustable)	From - 4° to + 4° (adjustable)
Output specification	Relay (free of potential contact):	Relay (free of potential contact):
	Max. contact voltage: 42V AC/ DC	Max. contact voltage: 42V AC/ DC
	Max. contact current: 1A (resistive)	Max. contact current: 1A (resistive)
	Max. switching power: 30W (DC) / 60VA (AC)	Max. switching power: 30W (DC) / 60VA (AC)
Output holdtime	0.5s to 9s (adjustable)	0,1/1s (fixed)

Sensing field dimensions given at 2.2m mounting height. Specifications are subject to changes without prior notice.

7 Accessories (sold individually)

