

1 PRODUCT DESCRIPTION

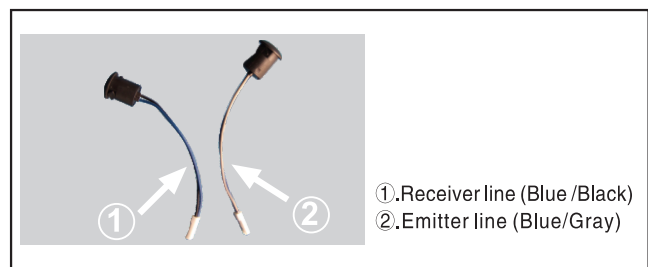
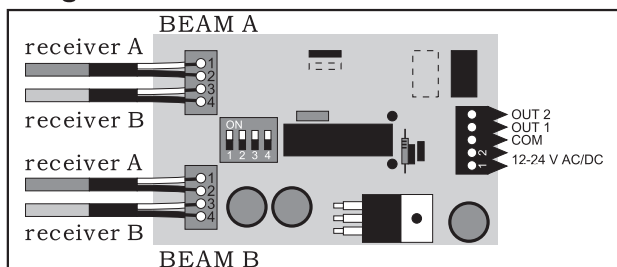
The WS-210 series are designed to meet the requirements in the area of providing safety of automatic doors for pedestrians. Because of the reduced size, they fit discreetly into all door profiles. Multiplication of microprocessor operators, definition of new safety standards and concern for better protection of pedestrians have led to the development of a new flexible, high-performance range.

2 SPECIFICATIONS

Description	Specification
Technology	Active infrared, microprocessor
Detection Mode	Presence (by interruption of the beam)
Response time	<40ms
Adjustments (by DIP Switch)	Single/double beam Normal/inverted outputs Reduced/normal range Test/normal
Operating Temperature	-20°C to +55°C
Supply Voltage	12-24V AC/DC
Output <ul style="list-style-type: none"> • contact max. Voltage • maximum current • maximum switching power 	1 or 2 relays (Voltage-free contact) 50 V DC / 50 V AC 1 A (resistive) 30 W (DC) / 50 VA (AC)
Minimum Range	1m
Maximum Range	4m—for minimum height of 0.2m 8m—for minimum height of 0.4m
Cable Length	5m (10m Optional)
Cable Colors	Receiver: Black Emitter: Grey

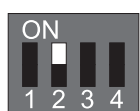
3 SETUP AND INSTALLATION

Single/Double Beam Sensor Connection



POSITION OF THE DIP-SWITCHES

The configuration mode is set up on the basis of the position of the following 4 dip-switches for the Microcell One and Two model::

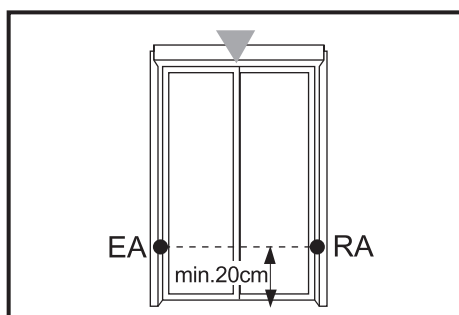


	1. Double/single barrier	2. Inverted/Normal outputs	3. Normal/Reduced range	4. Test/Normal
ON	Double barrier	Inverted outputs	Normal range (3<d<10m)	Test
OFF	Single barrier	Normal outputs	Reduced range (1<d<3m)	Normal

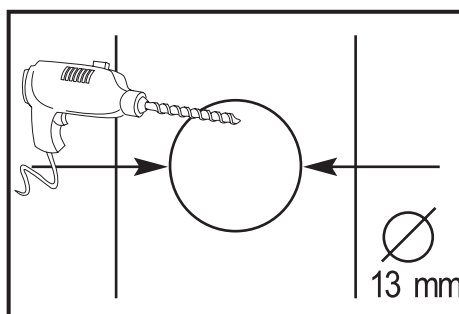
5 Troubleshooting

SYMPTOMS	PROBABLE CAUSES	CORRECTIVE ACTIONS
LED B is per manently lit	Faulty connection	a. Check the connection of the emitter and receiver b. Check whether Dip-Switch 1 is in the OFF position (for the single barrier)
LED A and/or LED B is per manently lit	Faulty connection Faulty alignment Incorrect power supply	a. Check the connection of the emitter and receiver b. Check the positions of the Dip-Switch c. Check using a voltmeter that the supply voltage is present d. Check the alignment of the emitter and receiver
The LEDs are working, but the door does not respond	Faulty connection of the output relay/transistor	a. Check the connection of the output relay/transistor b. Check whether the Dip-Switches 1 and 2 are configured correctly

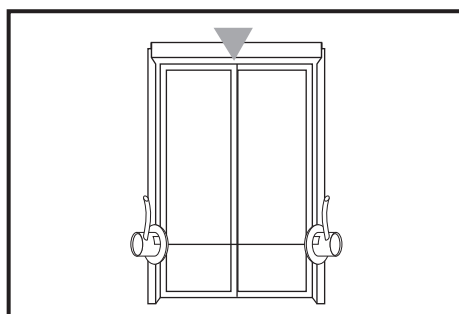
6 INSTALLATION



- Choose an installation height.
- Make a mark
- Make sure that the barrier is at least 20 cm away from the ground.

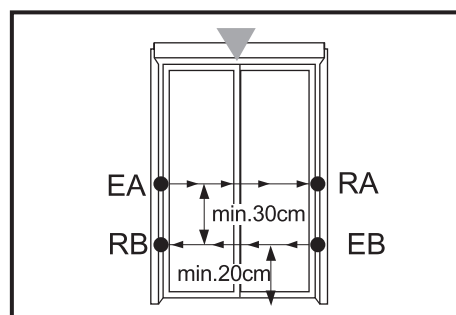


- Drill a 13 mm (or 1/2) hole in each door upright.

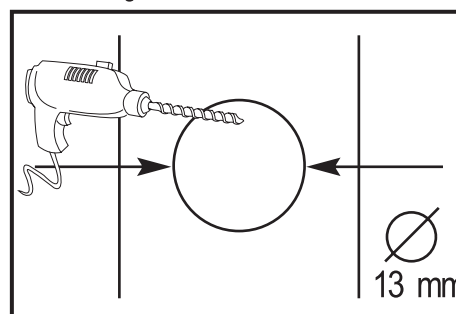


- Slide the heads and cables into the Profiled sections.

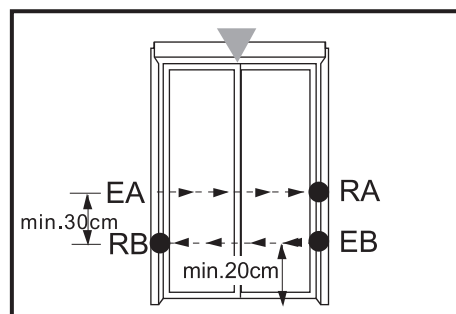
- Fix the control unit, securing it using the doubled-sided self-adhesive provided.



- Choose the two installation heights.
- Make sure that the two barriers are at least 30 cm apart.
- Make a mark
- Make sure that the barriers is at least 20 cm away from the ground.



- Drill a 13 mm (or 1/2) hole in each door upright.



- Slide the heads and cables into the profiled sections.
- Make sure to reverse the direction of propagation of the beams by sliding one emitter and one receiver into each upright.
- Check that a receiver is correctly situated opposite each emitter.

- Fix the control unit, securing it using the Double-sided self-adhesive provided.