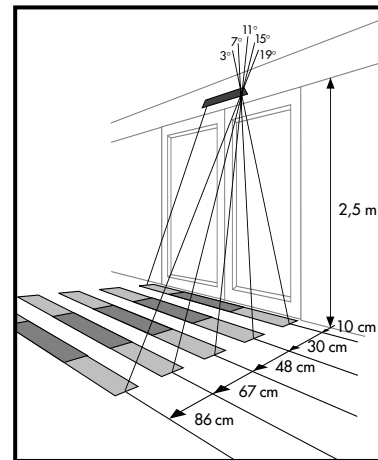
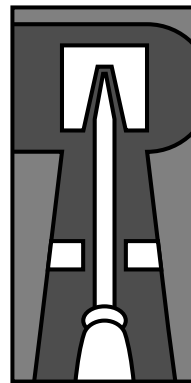
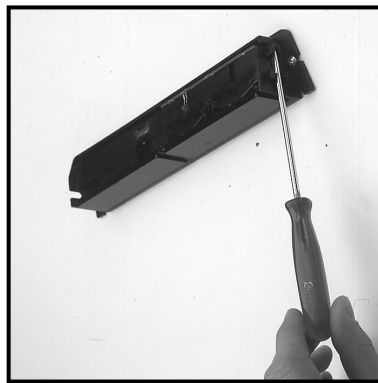
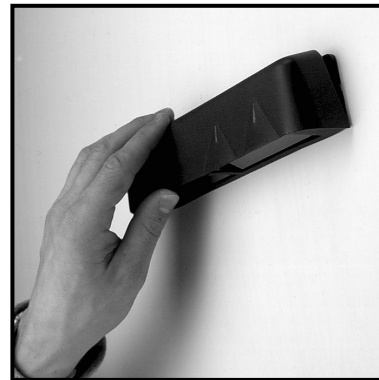
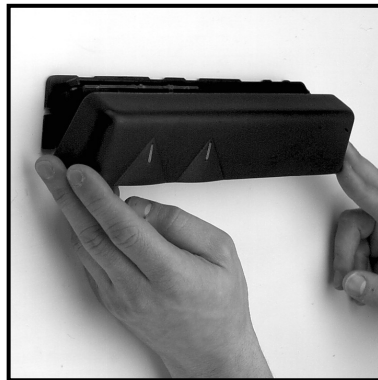


B. THE POSITION OF THE WIDTH IN FRONT OF THE DOOR IS DETERMINED BY THE ANGULAR POSITION OF THE OPTICAL BLOCK



- Insert a screwdriver into the recess on the extreme right-hand side of your sensor. Turn it slightly to select the required tilt angle

END OF INSTALLATION



- Re-insert the cover as shown above
- Close the sensor

LED INDICATOR



- The LED lights up for max. 20 seconds. Try to avoid any detection meanwhile. Thereafter, the LED lights up every time the sensor detects.

TROUBLE-SHOOTING

SYMPTOM	CORRECT ACTION
The LED doesn't light up	- Check power cable - Check power connector - Check power supply
The door opens and closes continuously	- Increase depth of field (door with handle) - Flick dip switch N° 4 to ON position (reinforced immunity) - Flick dip switch N° 1 to OFF position and then to ON position
The CRYSTAL PRESENCE only detects the movement when the dip-switch 1 is in ON position	- disconnect then connect again - do not move within the sensing field during the set-up time (20 sec.)



CRYSTAL PRESENCE USER'S GUIDE

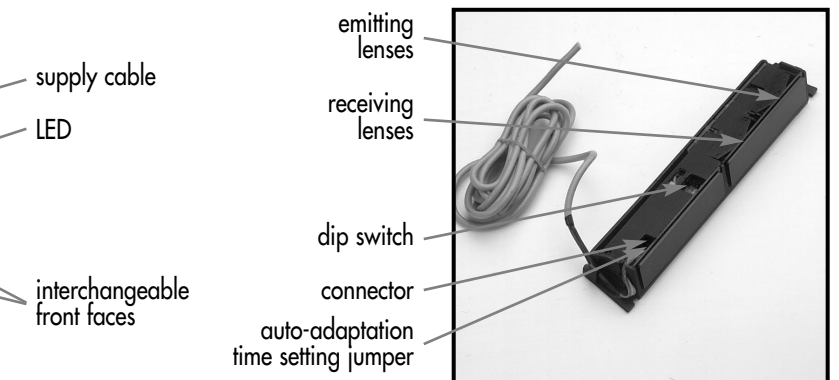
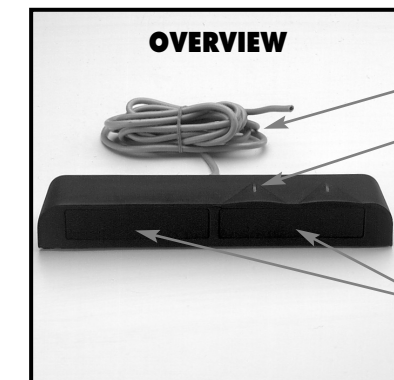
PERFECT "CURTAIN" PROTECTION FOR ALL AUTOMATIC DOORS

TECHNICAL SPECIFICATIONS

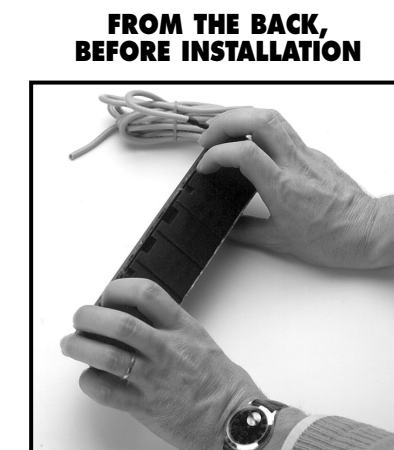
Technology	: active infrared and microprocessor
Mounting height	: • standard : 2.2 m • maximum : 2.5 m (wide width configuration) • maximum : 3 m (narrow width configuration)
Minimum distance from plane of leaves	: 0.1 m
Tilt angle	: 3° to 21°
Detection area at a height of 2.2 m	• wide width : 2 m (W) x 0.1 m (D) • narrow width : 1 m (W) x 0.1 m (D)
Detection area at maximum installation height	• wide width (2.5 m high) : 2.3 m (W) x 0.1 m (D) • narrow width : 1.3 m (W) x 0.1 m (D)
Diameter of each lobe at a height of 2.2 m	: 0.1 m
Number of beams	• wide width : 8 beams • narrow width : 4 beams
Detection mode	: presence and motion or motion only
Minimum detection speed	: 2.5 cm/s (on standard target)
Auto-adaptation time	: 1 or 10 min.
Response time	: < 50 ms
Supply voltage	: 12 to 30 V DC ±10% 12 to 24 V AC ±10%

Mains frequency	: 50 to 60 Hz
Power consumption	: < 1 W (VA)
Standard output inversion relay (free potential contact)	• Max contact voltage : 60 V DC / 125 V AC • Max contact current : 1 A (resistive) • Max switching power : 30 W (DC) / 60 VA (AC)
Output hold time	: 1.5 s (fixed)
Adjustments	• dip-switch 1 : presence or motion • dip-switch 2 : output logic • dip-switch 3 : emission frequency • dip-switch 4 : immunity • by rotation of optical block : depth of field • by permutation of front face : width of field
Temperature range	: -25°C to +55°C
Immunity	: Electromagnetic compatibility (EMC) in accordance with EMC 2004/108/EC
Dimensions	: 240 mm (W) x 51 mm (H) x 37 mm (D)
Weight	: 0.200 kg
Material	: ABS and polycarbonate
Colour	: anthracit grey, white or aluminium finish
Length of cable	: 3 m

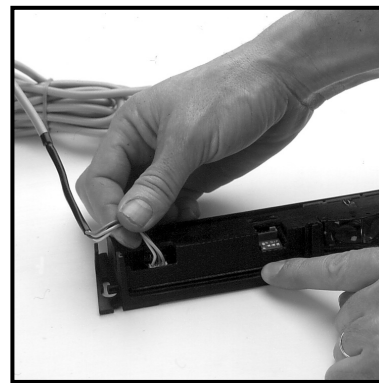
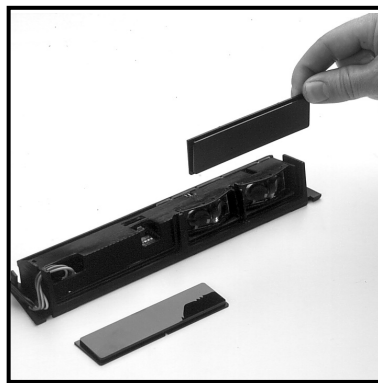
DESCRIPTION OF THE SENSOR



OPENING AND DISASSEMBLY OF THE SENSOR

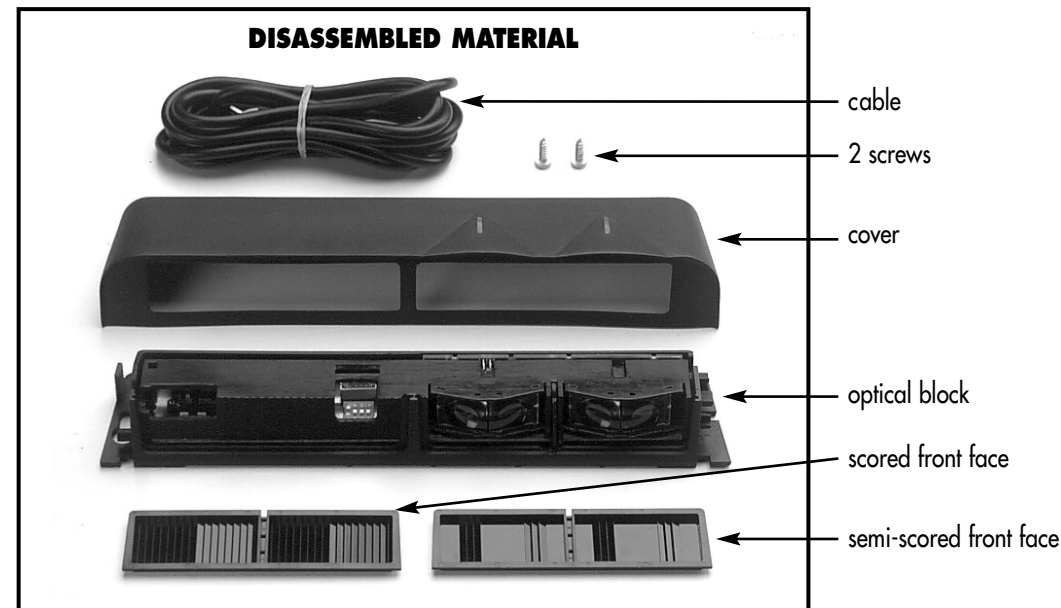


- Remove the sensor cover as shown above
- Insert a small screwdriver on the right-hand side of the sensor and lever it, open gently

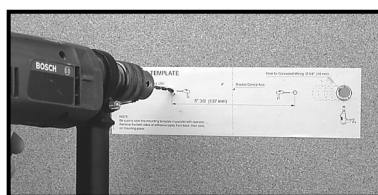


- Gently remove the front faces from their guides
Use the scored front face for a narrow width
Use the semi-scored front face for a wide width

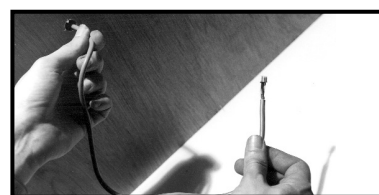
- Remove the cable from its housing and from its connector



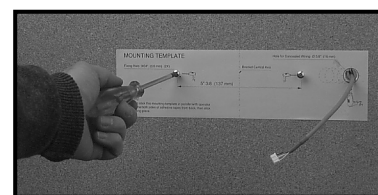
PREPARING FOR FITTING OF THE SENSOR



- Stick on the template
- Drill as shown



- Pass the cable where it is supposed to go through



- Insert the screws
- Do not tighten completely

OTHER POSSIBILITIES FOR MOUNTING

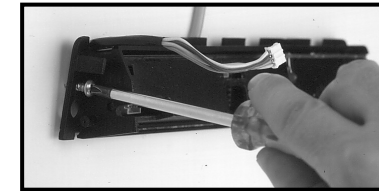


- For a mounting into the ceiling, use the CCA embedding support

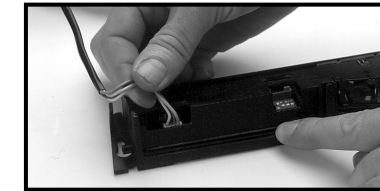


- Example of recessing

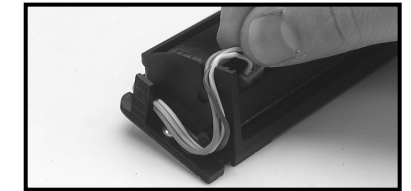
CONNECTING AND MOUNTING THE SENSOR



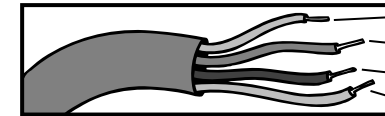
- Position the sensor correctly
- Screw in the sensor's two fixing screws



- Connect the sensor's supply cable



- Be sure to return the cable to its housing



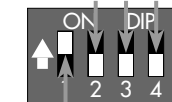
- Connect the cable as shown

BROWN = supply voltage
GREEN = supply voltage
WHITE = COM
YELLOW = NO/NC

CONFIGURATION

The dip switches are pictured as watched from the front, when the sensor is installed

1. NORMAL CONFIGURATION FOR CRYSTAL PRESENCE



DIP-SWITCH #1	DIP-SWITCH #2	DIP-SWITCH #3	DIP-SWITCH #4
In OFF position : normal	In OFF position : normally open (NO)	In OFF position : frequency 1 (normal operation)	In OFF position : normal
In ON position : presence and motion	In ON position : normally closed (NC)	In ON position : frequency 2* (to avoid interferences between 2 CRYSTAL)	In ON position : reinforced immunity To use only in case of unwanted detection (decreases the sensitivity)

*NB : when two CRYSTAL PRESENCE are interfering with each other, be sure to select frequency 1 for the first and frequency 2 for the second

2. CONFIGURATION OF THE AUTOADAPTATION TIME

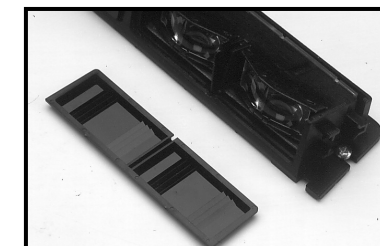
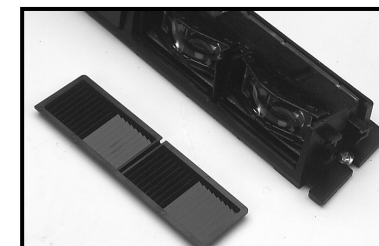
You can choose the autoadaptation time of your sensor by switching the autoadaptation time setting jumper which is near the supply connector

1 min. = 10 min. =

ATTENTION : When the CRYSTAL PRESENCE is installed to protect the fixed door leaves of a sliding door at the opening, be sure to connect the CRYSTAL PRESENCE on the input of the operator "STOP AT THE OPENING".
When the CRYSTAL PRESENCE is installed to protect the moving door leaves of a sliding door at the closing, be sure to connect the CRYSTAL PRESENCE on the input of the operator "REOPENING".

SETTING THE SENSING FIELD DIMENSIONS

A. THE WIDTH OF THE FIELD IS DETERMINED BY THE CHOICE OF FRONT FACE



- For a narrow width (1 m) :
scored front face in front of optics



- For a wide width (2 m) :
semi-scored front face in front of optics