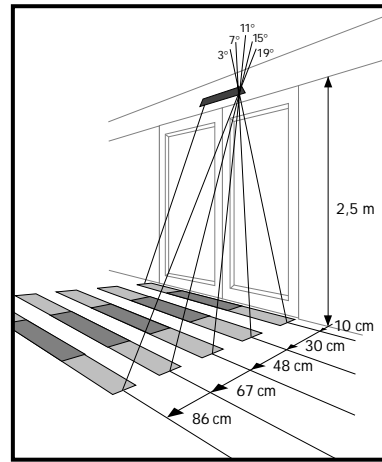
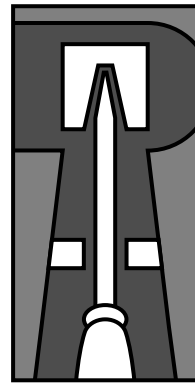
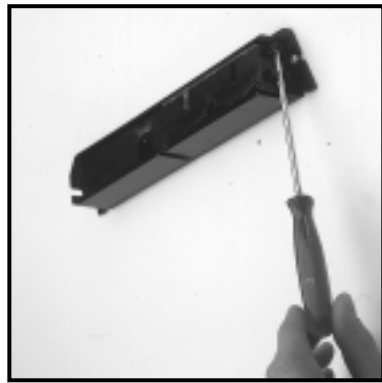


**B. THE POSITION OF THE WIDTH IN FRONT OF THE DOOR IS DETERMINED BY THE ANGULAR POSITION OF THE OPTICAL BLOCK**



- 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	a. Check power cable b. Check power connector c. Check power supply
The door opens and closes continuously	a. Increase depth of field b. Flick dip switch N° 4 to ON position (reinforced immunity) c. Flick dip switch N° 1 to OFF position and then to ON position
The BFA1 only detects the movement when the dip-switch 1 is in ON position	a. disconnect then connect again b. do not move within the sensing field during the set-up time (20 sec.)

**FAAC BFA1 USER'S GUIDE**

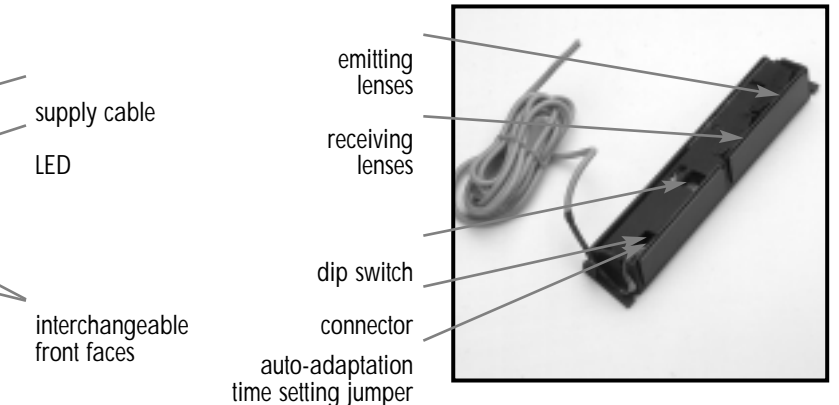
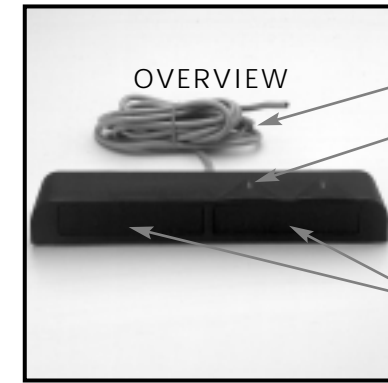


**PERFECT "CURTAIN" PROTECTION FOR ALL AUTOMATIC DOORS**

**TECHNICAL SPECIFICATIONS**

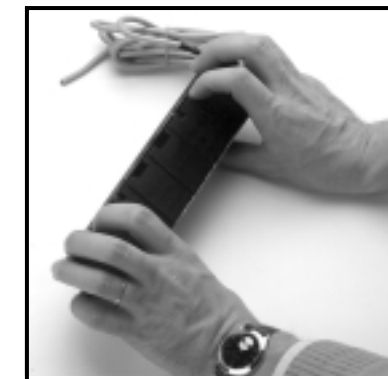
<b>Technology</b>	: active infrared and microprocessor	<b>Mains frequency</b>	: 50 to 60 Hz
<b>Mounting height</b>	: • standard : 2.2 m • maximum : 2.5 m (wide width configuration) • maximum : 3 m (narrow width configuration)	<b>Power consumption</b>	: < 1 W (VA)
<b>Minimum distance from plane of leaves</b>	: 0.1 m	<b>Standard output inversion relay</b> (free potential contact)	<ul style="list-style-type: none"> <li>• Max contact voltage : 60 V DC / 125 VAC</li> <li>• Max contact current : 1 A (resistive)</li> <li>• Max switching power : 30 W (DC) / 60 VA (AC)</li> </ul>
<b>Tilt angle</b>	: 3° to 21°	<b>Output hold time</b>	: 1.5 s (fixed)
<b>Detection area at a height of 2.2 m</b>	<ul style="list-style-type: none"> <li>• wide width : 2 m (W) x 0.1 m (D)</li> <li>• narrow width : 1 m (W) x 0.1 m (D)</li> </ul>	<b>Adjustments</b>	<ul style="list-style-type: none"> <li>• dip-switch 1 : presence or motion</li> <li>• dip-switch 2 : output logic</li> <li>• dip-switch 3 : emission frequency</li> <li>• dip-switch 4 : immunity</li> <li>• by rotation of optical block : depth of field</li> <li>• by permutation of front face : width of field</li> </ul>
<b>Detection area at maximum installation height</b>	<ul style="list-style-type: none"> <li>• wide width (2.5 m high) : 2.3 m (W) x 0.1 m (D)</li> <li>• narrow width : 1.3 m (W) x 0.1 m (D)</li> </ul>	<b>Temperature range</b>	: -25°C to +55°C
<b>Diameter of each lobe at a height of 2.2 m</b>	: 0.1 m	<b>Immunity</b>	: Electromagnetic compatibility (EMC) in accordance with 89/336/EEC
<b>Number of beams</b>	<ul style="list-style-type: none"> <li>• wide width : 8 beams</li> <li>• narrow width : 4 beams</li> </ul>	<b>Dimensions</b>	: 240 mm (W) x 51 mm (H) x 37 mm (D)
<b>Detection mode</b>	: presence and motion or motion only	<b>Weight</b>	: 0.200 kg
<b>Minimum detection speed</b>	: 2.5 cm/s (on standard target)	<b>Material</b>	: ABS and polycarbonate
<b>Auto-adaptation time</b>	: 1 or 10 min.	<b>Colour</b>	: anthracite grey
<b>Response time</b>	: < 50 ms	<b>Length of cable</b>	: 3 m
<b>Supply voltage</b>	: 12 to 30 VDC ±10% 12 to 24 V AC ±10%		

**DESCRIPTION OF THE SENSOR**

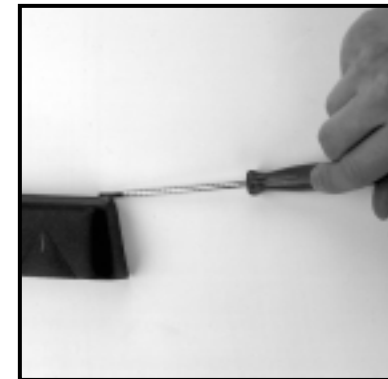


**OPENING AND DISASSEMBLY OF THE SENSOR**

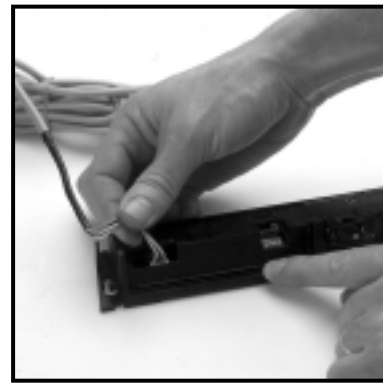
FROM THE BACK, BEFORE INSTALLATION



FROM THE FRONT, AFTER INSTALLATION

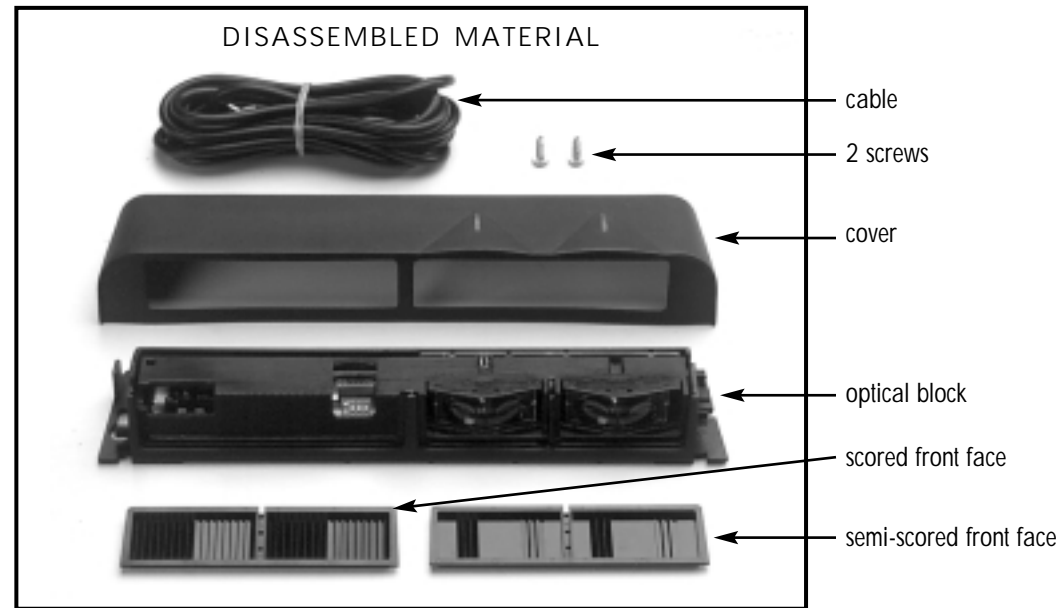


- Remove the sensor cover as shown above
- Insert a small screwdriver on the right-hand side of the sensor and lever it, open gently

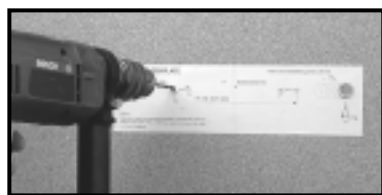


- Gently remove the front faces from their guides
- Use the scored front face for a narrow width
- Use the semi-scored front face for a wide width

- Remove the cable from its housing and from its connector



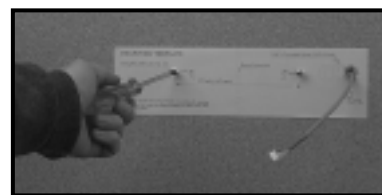
### PREPARING FOR FITTING OF THE SENSOR



- Stick on the template
- Drill as shown



- Pass the cable where it is supposed to go through



- Insert the screws
- Do not tighten completely

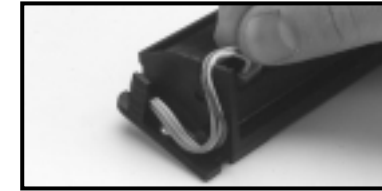
### CONNECTING AND MOUNTING THE SENSOR



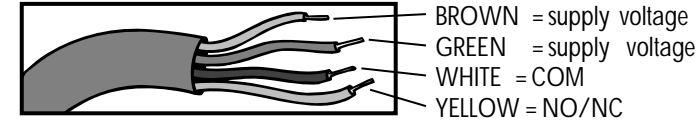
- Position the sensor correctly
- Screw in the sensor's two fixing screws



- Connect the sensor's supply cable



- Be sure to return the cable to its housing

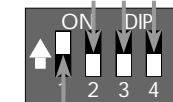


- Connect the cable as shown

### CONFIGURATION

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

#### 1. NORMAL CONFIGURATION FOR BFA1



DIP-SWITCH #1	DIP-SWITCH #2	DIP-SWITCH #3	DIP-SWITCH #4
<p>In OFF position : motion</p>	<p>In OFF position : normally open (NO)</p>	<p>In OFF position : frequency 1 (normal operation)</p>	<p>In OFF position : normal</p>
<p>In ON position : presence and motion</p>	<p>In ON position : normally closed (NC)</p>	<p>In ON position : frequency 2 * (to avoid interferences between 2 BFA1)</p>	<p>In ON position : reinforced immunity <small>To use only in case of unwanted detection (decreases the sensitivity)</small></p>

\*NB : when two BFA1 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

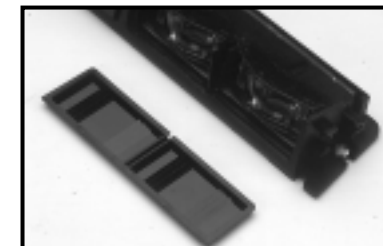
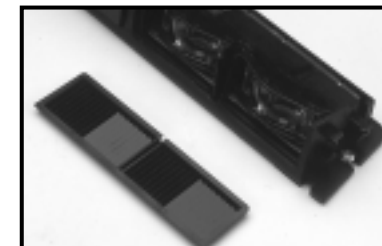
You can choose the autoadaptation time of your sensor by switching the autoadaptation time setting jumper which is near the supply connector

1 min. = 10 min. =

**ATTENTION :** When the BFA1 is installed to protect the fixed door leaves of a sliding door at the opening, be sure to connect the BFA1 on the input of the operator "STOP AT THE OPENING".  
When the BFA1 is installed to protect the moving door leaves of a sliding door at the closing, be sure to connect the BFA1 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