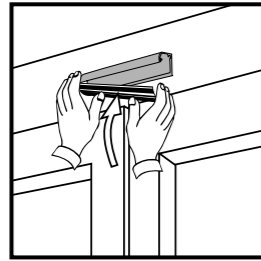
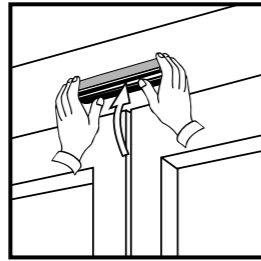


**END OF  
INSTALLATION OF  
FOCUS  
220/340/700/900**

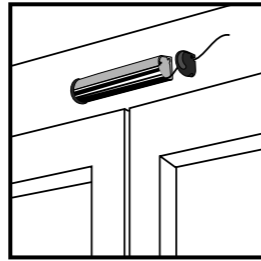


• Re-insert the front cover

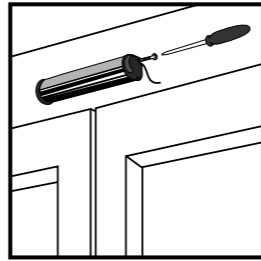
1. Insert in the upper rail
2. Gradually tighten the front cover



• Run the cable through the opening in the side cap



• Screw on the second side cap



**TROUBLESHOOTING**

SYMPTOMS :	CORRECTIVE ACTIONS :
Green LED never lit	a) Check power supply b) Adjust the detection distance
Sensor detects erratically	Reduce the detection distance



**FOCUS 220/340/700/900 & 2 USER GUIDE**  
**THE HIGH PERFORMANCE, MULTI-USE SENSOR**

**TECHNICAL SPECIFICATIONS**

**Technology** : active infrared  
**Detection distance** : 0.6 m to 2.5 m (adjustable)  
**Mounting height** : 3 m max  
**Tilt angle of the module** : 0° - 5° - 10° - 15° - 20° - 25°  
**Focus 220/340/700/900** : 0° - 5° - 10° - 15° - 20° - 25°  
**Diameter of the IR spot at 1.7 m height** : 0.10 m  
**Detection mode** : presence and motion  
**Detection signal duration (presence)** : infinite  
**Response time** : < 50 ms  
**Supply voltage** : 24 V AC ±10% - 24 V DC ±20%  
**Mains frequency** : 50 to 60 Hz  
**Current consumption** : < 1 W (VA)  
**Output** : relay with switch-over contact (voltage free)  
 • relay contact ratings (max voltage) : 60 V DC / 125 V AC  
 • relay contact ratings (max current) : 1 A (resistive)  
 • max switching power : 30 W (DC) / 60 VA (AC)  
**Adjustments** :  
 • detection distance (per rotating came)  
 • tilt angle from 0° to 25° in 5° steps (Focus 220/340/700/900)

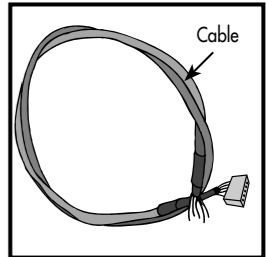
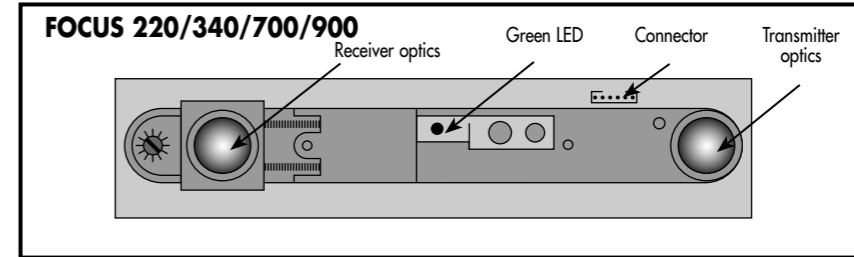
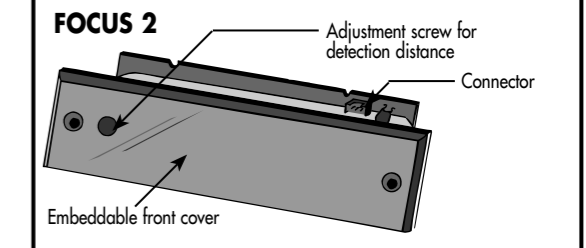
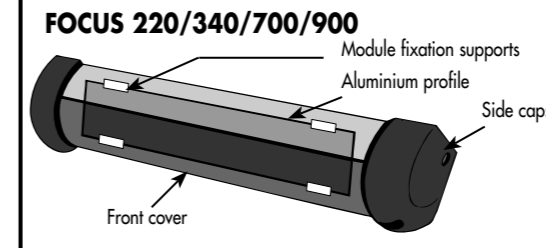
**Temperature range** : -25°C to +55°C  
**Immunity** : Electromagnetic compatibility (EMC) according to EMC 2004/108/EC

**FOCUS 220/340/700/900**  
**supplied with aluminium profile for surface mounting or on ceiling**  
**Dimensions of housing** : 220/340/700/900 mm (L) x 48 mm (H) x 48 mm (D)

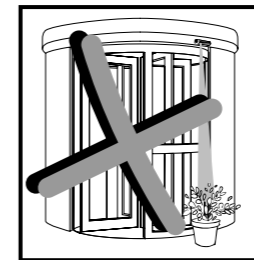
**Weight** : 0.2 kg  
**Material** : aluminium, ABS and plexiglass  
**Colour of housing** : naturally anodised or black  
**Cable length** : 3 m

**FOCUS 2**  
**supplied with embeddable front cover for false ceiling**  
**Dimensions of printed circuit** : 170mm (L) x 37mm (H) x 31mm (D)  
**Dimensions of front cover** : 200mm (L) x 45mm (H) x 3mm (D)  
**Weight** : 0.120 kg  
**Material of front cover** : polycarbonate  
**Colour of front cover** : black  
**Cable length** : 3 m

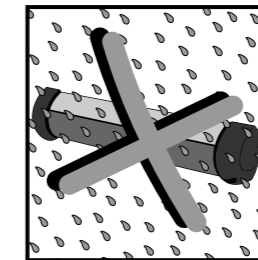
**DESCRIPTION OF THE SENSOR**



**INSTALLATION TIPS**

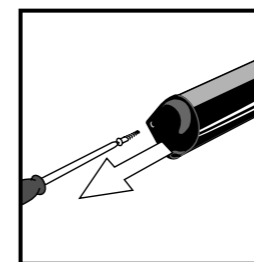


No objects shall be within the detection zone

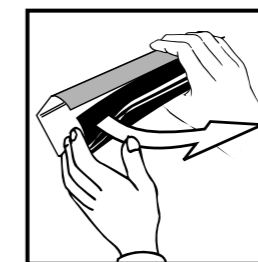


Preferably, FOCUS 220/340/700/900 should not be exposed to heavy rain

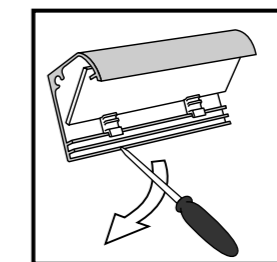
**OPENING AND DISASSEMBLY OF FOCUS 220/340/700/900**



• Unscrew the side caps



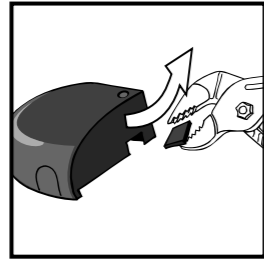
• Remove the front cover by one of its sides



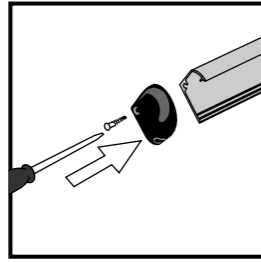
• Use a screwdriver to remove the plastic supports from the modules

## FIXING THE FOCUS 220/340/700/900 PROFILE ON THE LEAF

### 1. INITIAL STEPS

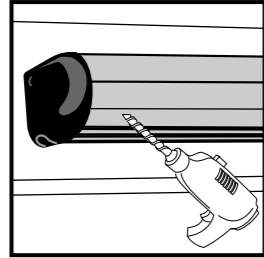


- Choose the side caps through which the cable is to be run
- Break the part of the cover through which the cable is to run

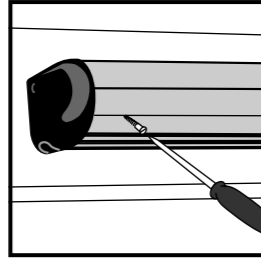


- Screw the cover onto the profile

### 2. APPLICATIONS FOR SURFACE MOUNTING



- Drill two holes in the back of the aluminium section and in the leaf of the door (use the groove to position the holes)



- Screw in the fixing screws  
**WARNING :** do not position the screws in the same place as the module fixation supports the circuit boards

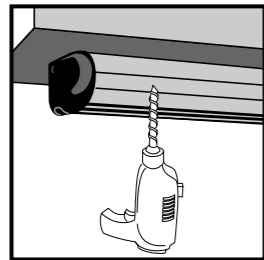


- Example of use for automatic window opening

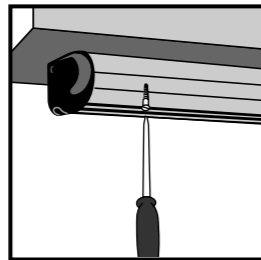


- Example of use to detect presence for bidirectional automatic doors (to be connected to a buzzer)

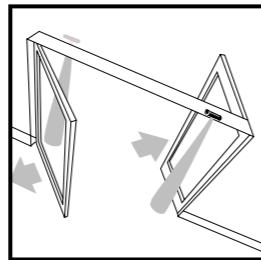
### 3. APPLICATIONS FOR CEILING MOUNTING



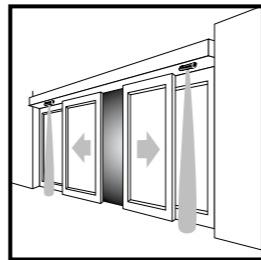
- Drill two holes in the upper part of the profile



- Tighten the screws

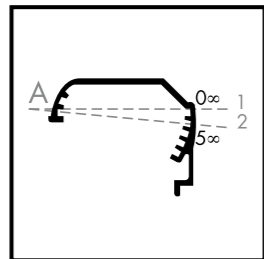


- Example of use for opening swing doors with very small detection zone

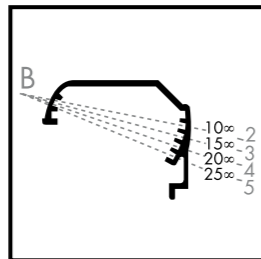


- Example of use for securing the fixed side leaves of sliding doors

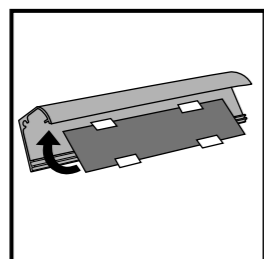
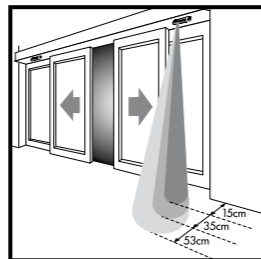
## ORIENTATION AND INSERTION OF THE FOCUS 220/340/700/900 MODULE



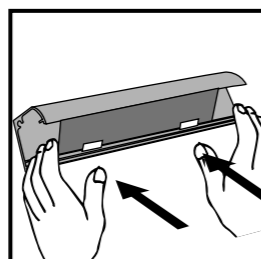
- Choose the position of modules in the housing from the available positions described above
- Recommended angle : 20°



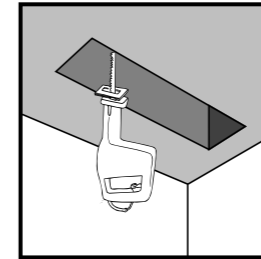
- Sketch of the detection zones corresponding to the angles at which the module is positioned for securing the fixed side leaves of sliding doors



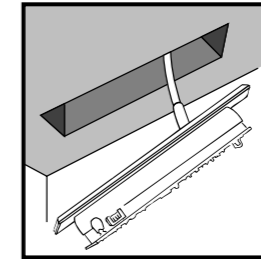
- Connect the cable to the connector
- Reinsert the module, ensuring that the connector is positioned to the side of the cap chosen for the passage of the cable



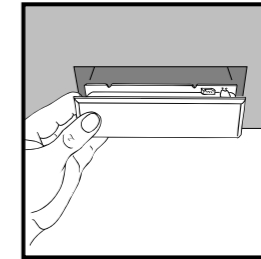
## FIXING THE FOCUS 2



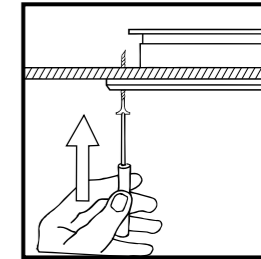
- Cut out a rectangle 170 mm long by 40 mm wide



- Connect the cable to the FOCUS 2 connector
- Run the cable through the opening

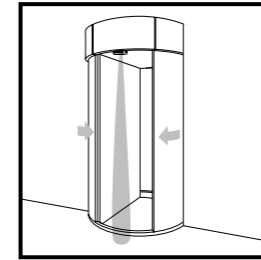


- Insert the FOCUS 2

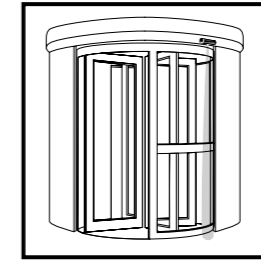


- Screw in the two fixing screws

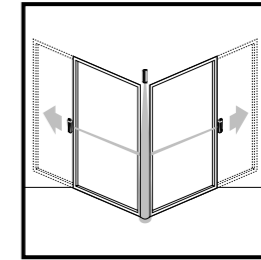
### EXAMPLE APPLICATIONS



- Securing curved sliding doors

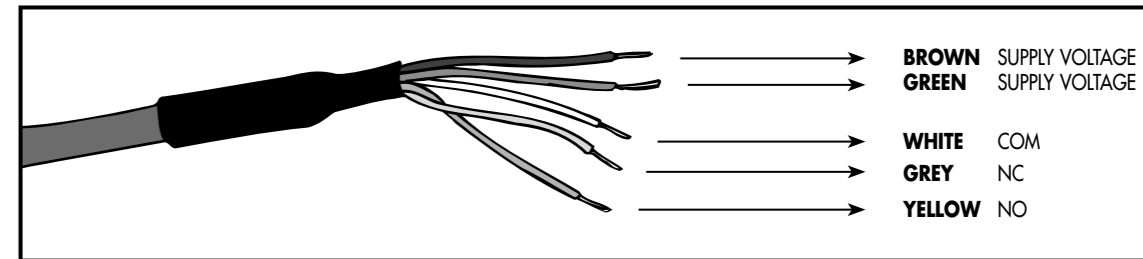


- Securing the gripping area of revolving doors



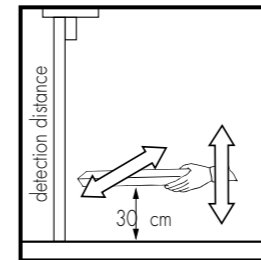
- Securing V-shaped sliding doors

## CABLING THE SENSOR



- Connect the cable as shown above

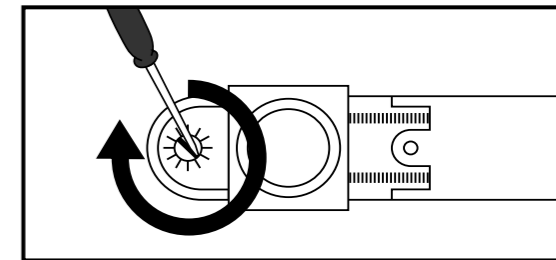
## DETECTION DISTANCE ADJUSTMENT



- Take the cardboard box of the FOCUS

### FOCUS 220/340/700/900

- Place the box at 30 cm from the floor and at a distance from the door determined by the tilt angle of the module
- Move the box up and down and from left to right in order to estimate the dead zone

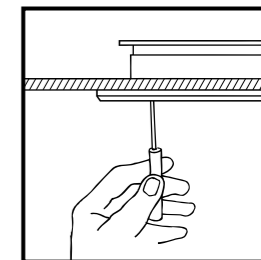
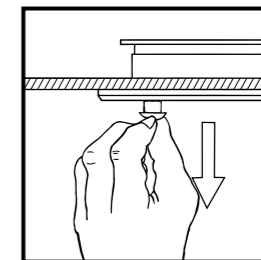


### FOCUS 220/340/700/900

- Using a screwdriver, rotate the distance detection adjustment screw, in order to obtain the detection at  $\pm 30$  cm
- Clockwise rotation by one notch increases the detection distance by  $\pm 10$  cm (and inversely)

### FOCUS 2

- Place the box at 30 cm from the floor
- Move the box up and down and from left to right in order to estimate the dead zone



### FOCUS 2

- Gently remove the plug for the detection distance adjustment screw
- If detection occurs in the absence of an obstacle, rotate the screw counterclockwise

Note :  
LED on : no detection  
LED off : detection or no power supply