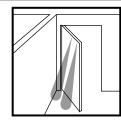
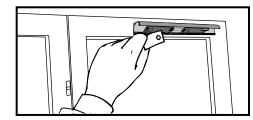
II.CONFIGURING THE INHIBITION **INPUT**



- The inhibition input is used to stop the detection process when the door must face a fixed obstacle at the end of its swing
- Adjust the operator «cam switch» Cable the inhibition input to inhibit the sensor before detecting the obstacle.

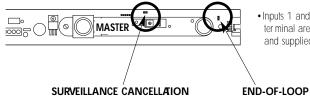
III.ANTI-MASKING TEST



- The sensor is open (without front cover).
- The anti-masking function is activated (see : adjustment of the functions) both in MASTER and SLAVES.
- · Make sure there is no target in front of the sensor.
- Place the hole of the test paper in front of the reception lens
- •The red LED does not light up, otherwise the configuration must not be used for this type of environment.

MONITORED **VERSION**

FOR MONITORED VERSION ONLY:



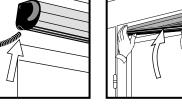
JUMPER

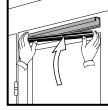
- Inputs 1 and 2 of the ter minal are properly wired and supplied.
- The end-of-loop jumper is • If the surveillance option mounted on the last SLAVE can not be used, move the or MASTER module, if there end-of-loop jumper on the are no SLAVES. sur veillance cancellation
 - Terminals 1 and 2 are then unnecessary

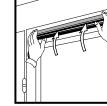
INSTALLATION



sheath in the cap's groove.



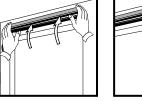




JUMPER

· Reinser t the front par t

1. Insert in the upper rail. 2. Tighten the front part progressively.





· Fasten the second side cap.

 Screw the wall fixation fastener onto the fixed box, inser ting the connection

TROUBLESHOOTING

SYMPTOMS:	CORRECTIVE ACTIONS :	
The door does not open. The red LED does not light up in the absence of a target.	a) Check power supply. b) Check relay cabling (NO or NC).	
The door does not open. The red LED lights up.	a) Check that the surveillance input is deactivated.b) Decrease the detection distance.	
The detector detects erraticly.	a) Make another antimasking test. b) Decrease detection distance.	
You have problems inserting the module into the aluminium section.	Check the module orientation.	
The door opens without taking detection into account. The red LED lights up.	Check relay cabling.	
WARNING : this sensor is designed exclusively to make automatic doors safer.		



FAAC PB 34-70-90 USER'S GUIDE

SAFETY SENSOR FOR SWINGING DOORS AND REVOLVING DOORS

TECHNICAL CHARACTERISTICS

1 master module

• 9 slave modules (standard version) • 8 slave modules (monitored version)

0.7 m to 2.5 m

Detection distance (adjustable by linear movement swivelling cam)

Module inclination angle :0° 5° 10° 15° 20° 25° Diameter of the infrared beam at 2 m : 0.13 m Detection mode Presence (and movement)

Detection duration (presence) :Infinite Response time · < 50 ms

Special inputs

: • system inhibition

Supply voltage

: 12 to 24 V AC/DC ±10% · relay output option transistor output option : 12 to 30 V DC ±10% :50 to 60 Hz

Mains frequency Power consumption

 Slave ON · 40 mA maximum • Master OFF : 30 mA maximum

• Slave OFF : 30 mA maximum Standard output

Output holding time

:60 V DC /125 V AC relay contact ratings (max voltage) · relay contact ratings (max current) : 1 A (resistive)

· m ax. switching power :30 W (DC) / 60 V A (AC) : Open collector transistor Optional output

 max. voltage 30 V DC • max. current : 100 mA (protection against shor

:0.1 s to 4.5 s (adjustable) : • detection distance (by swivelling cam) · holding time (by potentiometer)

 normal/antimasking configuration (by jumper) dark ON/light ON configuration(by jumper)

Immunity :Electromagnetic compatibility (EMC) 89/336/EEC and 92/31/EEC :340 - 700 - 900 mm (L) x 43.5 mm (H) x 47.5 mm (D) Dimensions

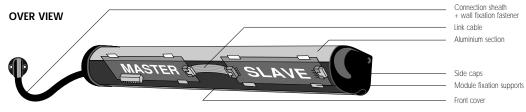
: • 0.330 Kg (length 340 mm, 1 Master)

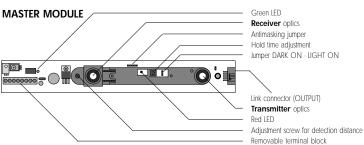
• 0.620 Kg (length 700 mm, 1 Master + 1 Slave) • 0.740 Kg (length 900 mm, 1 Master + 2 Slaves)

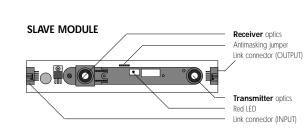
Aluminium, ABS and Plexiglas Colour of the box · Natural aluminium

black front side











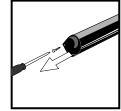




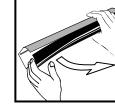
No objects shall be within the detection zone.

Preferably, exposure to heavy rain must be avoided.



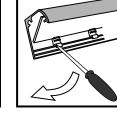


Unscrew side caps.

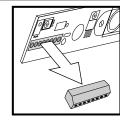


one of the sides.

Remove the front cover by



 R emove the plastic module supports using a screwdriver removable terminal block after disconnecting the



• Remove the MASTER's



FUNCTION ADJUSTMENT CONFIGURATION

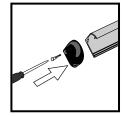
Each module (MASTER and SLAVE) is equipped with jumpers allowing configuration.		INITIAL ADJUSTMENT		
MASTER + SLAVE Anti-masking function	The sensor is put in detection mode when one of the optics is masked.	not activated	ACTIVATED	NOT ACTIVATED
MASTER Operating mode	DO: the relay is released on detection LO: the relay is activated on detection	DARK-ON	DARK ON	LIGHT ON
MASTER Holding time potentiometer	Increased holding time.	0,1 s	0,1 s 4,5 s	
FOR CONTROLLED VERSION End-of-loop jumper to be placed on the last slave of the link (or on the MASTER if no SLAVES).		Jumper supplied with the master	MASTER:	SLAVE :

FIXING THE PROFILE THE LEAF

I. INITIAL STEPS

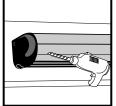


 Break the part of the cap (hinge side) to allow passage for the connection

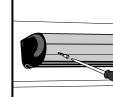


· Screw the cap on the section from the door hinge

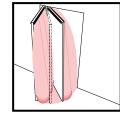
II. INSTALLATION **ON SWINGING DOORS** AND **REVOLVING DOORS**



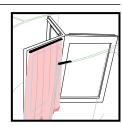
• Drill two holes in the back of the aluminium section and in the door leaf. (Use the groove to position the holes)



· Screw the fixing screws. WARNING: do not position the screws in the same place as card fixing support

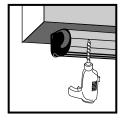


• Example of use on swinging doors.

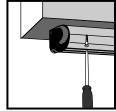


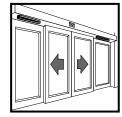
• Example of use on revolving doors.

III. APPLICATION **TO INCREASE SAFETY OF SLIDING DOORS OR SPECIAL USES**



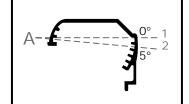
• Drill two holes in the upper • Screw the screws. part of the section.

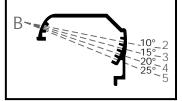




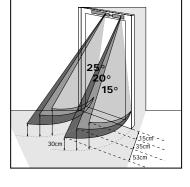
• Example of use on a sliding door.

ORIENTATION OF THE **MODULES**



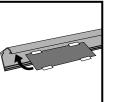


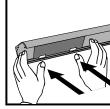
Choose the position of modules in the housings from the available positions described above. Recommended angle: 20°.



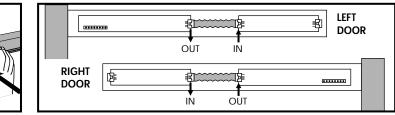
Overview of the sensing fields as a function of module placement angles.

INSERTING AND CONNECTING THE MODULES





• Reinsert the module(s) and make sure that the MASTER is on the hinge side.

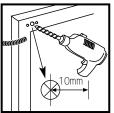


• connect the different modules together.

WARNING: make sure that an input is connected to an output.

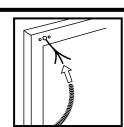
REMARK: place the last SLAVE module (or the single MASTER) as close as possible from the sharp edge of the door.

PREPARING THE CONNECTION CABLE



of wires.

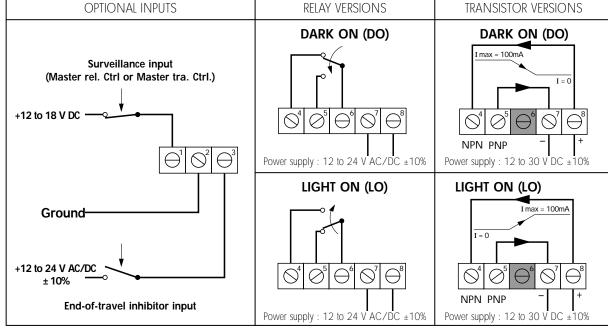
- Drill a hole in the fixed part of the door for the passage
- Drill two 4 mm holes on each side of the hole for the passage of the wires (to fix the wall fixation fastener).



- Pass the wire through the connection sheath.
- Connect to the removable terminal strip of the MASTER.

CABLING SENSOR

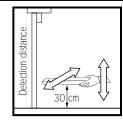
• Connect the cables of the operator to the removable terminal.



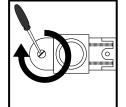
REMARk: If an inductive load is connected (operator relay), put a protective diode.

SENSOR TEST

I. DETECTION DISTANCE **ADJUSTMENT:**



- Take the cardboard box of the PB.
- Adjust the holding time potentiometer of the input to its minimum value.
- Place the box at 30 cm from the floor and at a distance from the door determined by the module inclination angle.
- Move the box up and down and from left to right to estimate the dead zone.



- Using a screwdriver, rotate the distance detection adjustment screw to obtain the detection at ±30 cm (and vice versa).
- Clockwise rotation by one notch increases the detection distance by ±10 cm (and inversely).
- Force the door to open. • If detection is observed in the absence of an
- obstacle, rotate the screw counterclockwise.
- · When the adjustment is correct, set the holding potentiometer to the desired value (recommended value: 2s).