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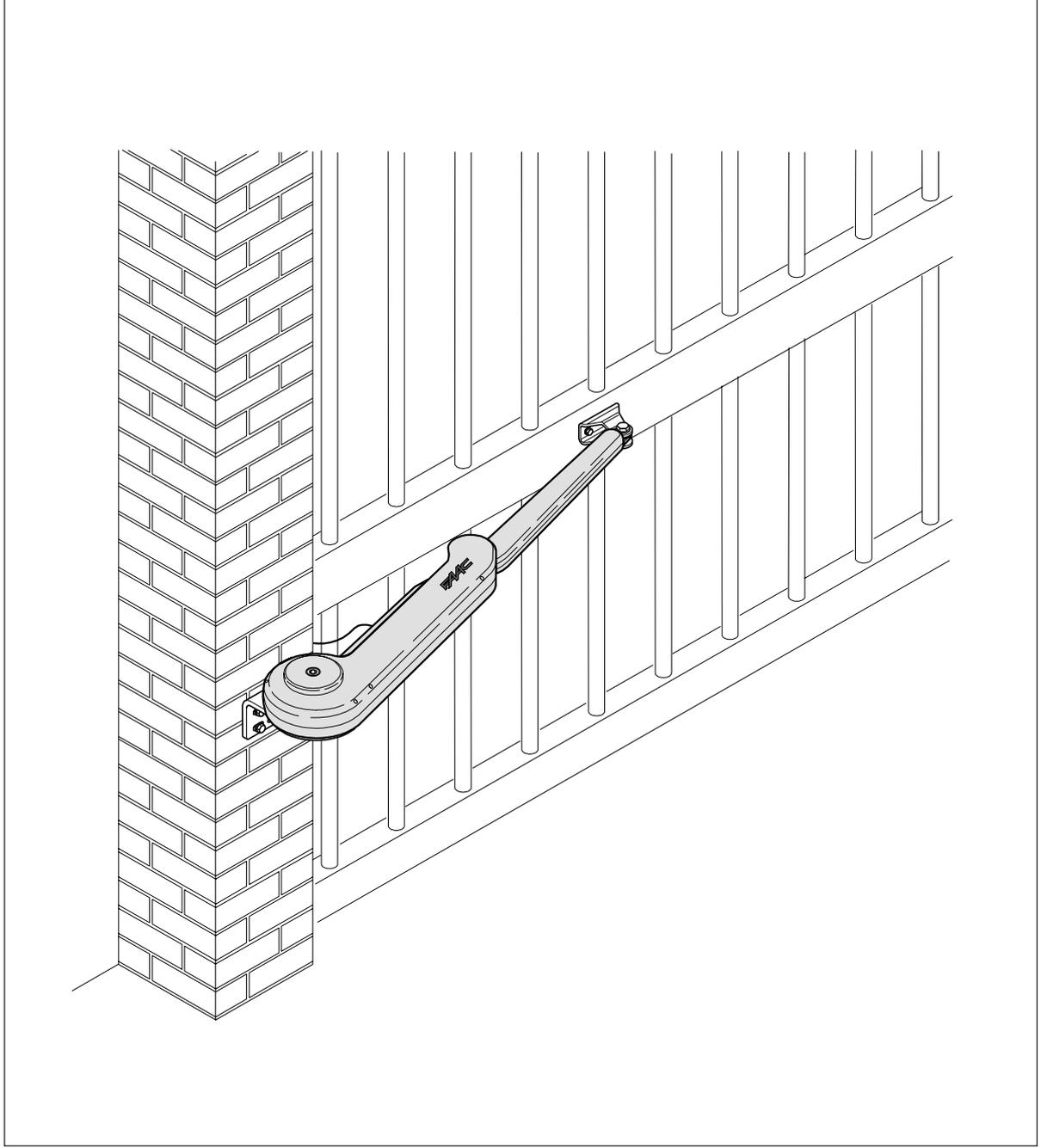
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# DOMOLINK



# FAAC

# DOMOLINK automated system

These instructions apply to the following model:

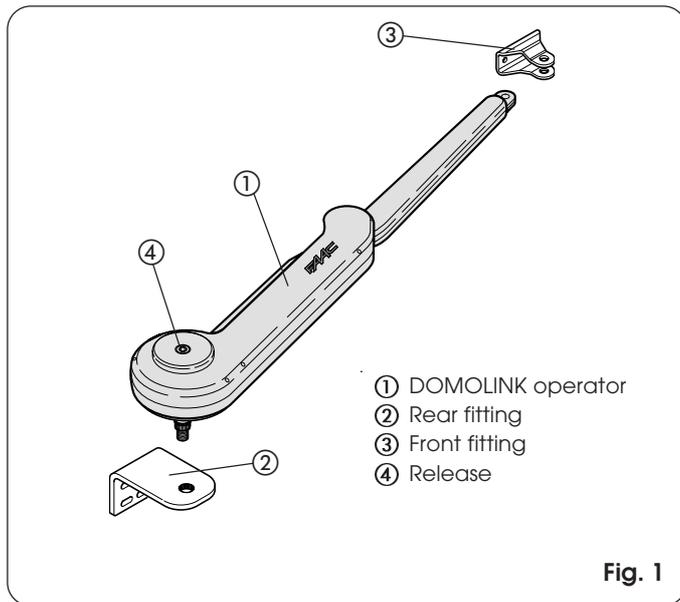
### FAAC DOMOLINK

The DOMOLINK automated system can automate residential swing gates with leaves of up to 1.8 m in length with 120° max. opening.

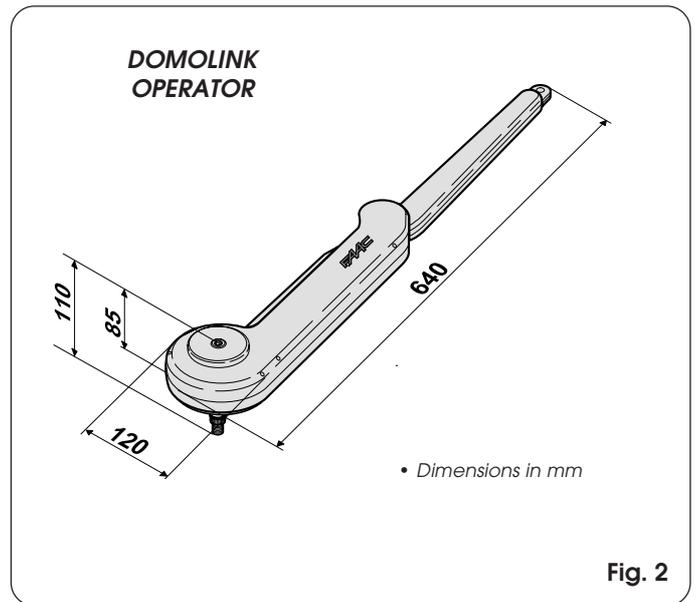
It consists of non-reversing electro-mechanical articulated operators, powered by 12 Vdc, and each operator is coupled to a control unit. The non-reversing system guarantees the gate will automatically lock when the motor is not operating. A release system enables the gate to be moved by hand in case of malfunction.

**The DOMOLINK automated system was designed and built for controlling vehicle access. Do not use for any other purpose.**

## 1. DESCRIPTION



## 2. DIMENSIONS



## 3. TECHNICAL SPECIFICATIONS

**Tab. 1** - Technical specifications of DOMOLINK operator

MODEL	DOMOLINK battery		DOMOLINK transformer	
Power supply	12Vdc			
Rated absorbed power (W)	48			
Max torque (Nm)	70			
Max load-free angular speed (°/sec)	23 (0.4 rad/sec)			
Use frequency (cycles/hour)	5	(1)	15	(2)
Consecutive cycles	~15	(1)	30	(2)
Recovery time	~10' for each completed cycle(1)		2' for each completed cycle(2)	
Type of reduction gear	epicycloid			
Operating ambient temperature (°C)	-20 ÷ +55			
Operator weight (Kg)	2.8			
Protection class	IP 44			
Leaf max length (m)	1.80			
Leaf max weight (kg)	250			
Operator overall dimensions LxHxD (mm)	see fig.2			
Length of operator power cable (m)	0.7 (CANNOT BE MODIFIED)			

- (1) The 5 cycles/hour are just a reference value for maintaining full efficiency of batteries. 15 consecutive cycles can be averagely performed with charged battery. The recovery time (battery recharge) is approx. 10' each cycle performed. The consecutive cycles could be reduced by over 50% at low temperatures (< 0°C).
- (2) The 15 cycles/hour are just a reference value for maintaining full efficiency of motorisation. 30 consecutive cycles can be performed with software thermal protection. Recovery time is 2' each cycle performed.

## 4. INSTALLATION

### 4.1. Preliminary checks

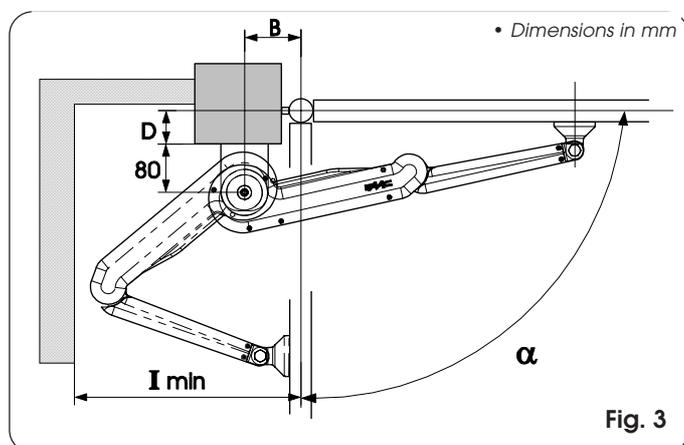
To ensure safety and an efficiently operating automated system, make sure the following conditions are observed:

- **The enclosures of the control boards (see relevant instructions) should be installed at a distance from the operators not requiring the motor cable to be extended.**
- The structure of the gate must be suitable for being automated. In particular, check that the structure is sufficiently strong and rigid, and that its dimensions and weight conform to those indicated in the technical specifications.
- Make sure that the leaves move uniformly and correctly, without any irregular friction during their entire travel.
- Make sure that the hinges are in good condition.
- Check if the mechanical stops of the limit-switches are fitted.
- Remove any locks and lock bolts.

We advise you to have any metalwork carried out before the automated system is installed.

### 4.2. Installation dimensions

Establish the installation position of the operator by referring to Fig. 3 and Table 2.



Tab. 2 - Installation dimensions

Dimension D from to	Dimension B from to	Angle $\alpha$	Dimension I min.
30 160	100 160	90°	≥400
160 200	100 110		
30 80	160 200	110°	≥500
30 50	180 200	120°	≥560

• Dimensions in mm

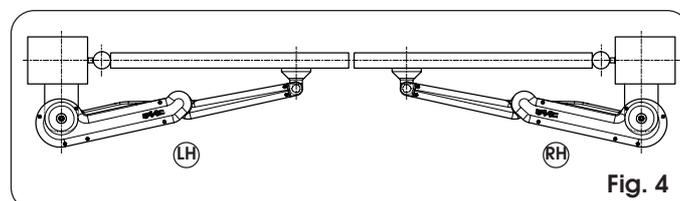
To select the dimensions, we advise you to measure dimension D first and then position the rear fitting, using dimension B among those indicated in Table 2.

**Note:** Carefully check that the distance between the leaf hinge and any obstacles (wall, fencing, etc.) is greater than or equal to **min dimension I** (Fig. 3) referring to the selected opening angle, so that it does not interfere with the opening movement of the operator.

### 4.3. Installation sequence

The DOMOLINK operator is available in 2 versions, designed for installation according to leaf opening direction:

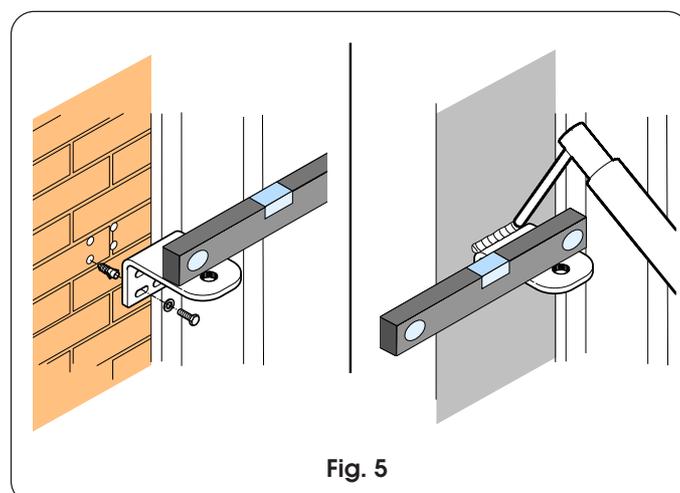
- RIGHT DOMOLINK** for right side installation (Fig. 4 - RH)
- LEFT DOMOLINK** for left side installation (Fig. 4 - LH)



#### 4.3.1 Installing the rear fitting

Secure the rear fitting to the pillar by welding or using suitable expansion plugs (Fig. 5), observing the dimension as shown in Fig. 3 and Table 2 and checking if the fitting is perfectly horizontal.

➔ The rear fitting must never be cut and must face downwards.



**4.3.2 Installing the operator-rear fitting**

Secure the operator to the rear fitting, with the nut and washer (Fig. 6) taking care to fit the toothed part correctly.

- ➡ The rear fitting must never be cut and it must face downwards with its pillar fixing points.

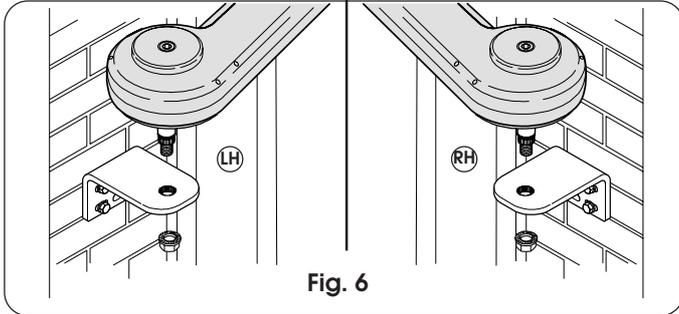


Fig. 6

**4.3.5 Installing the front fitting**

The fitting can be either welded directly to the leaf, or screwed on, using the threaded inserts (Fig. 9).

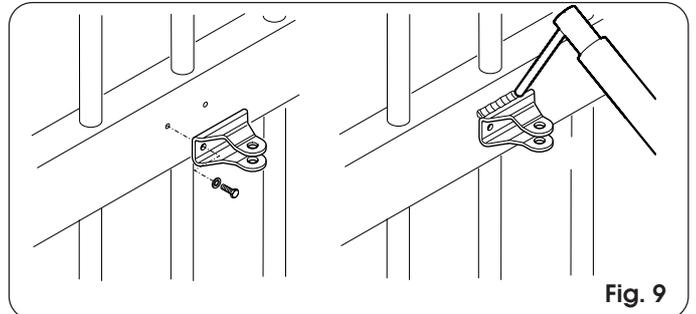


Fig. 9

**4.3.3 Releasing the operators**

Release the operator as shown in Fig. 7.

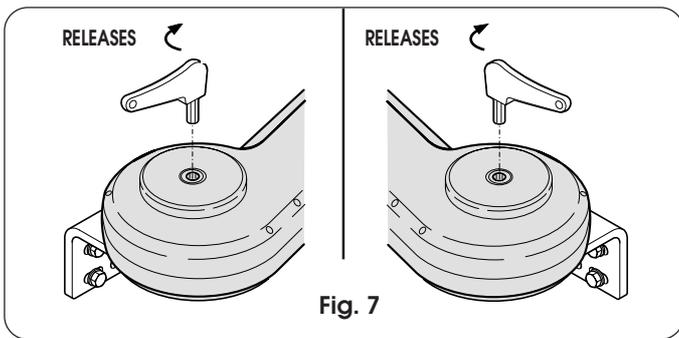


Fig. 7

**4.3.6 Installing the operator-front fitting**

Fasten the operator to the front fitting as shown in Fig. 10.

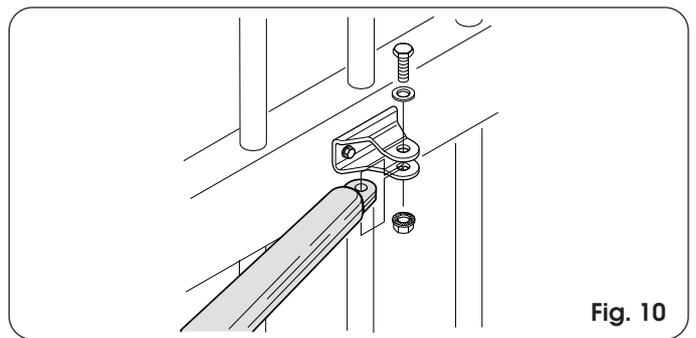


Fig. 10

**4.3.4 Positioning the front fitting**

- Take the leaf to its closed position.
- Temporarily secure the front fitting to the fully extended operator with the 3 rotation points aligned (Fig. 8). Rest the fitting on the leaf and mark out the fixing points. Check if the operator and fitting are perfectly horizontal.

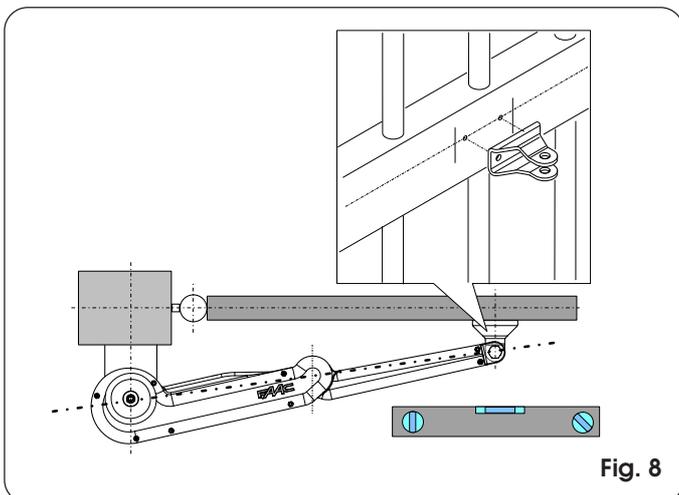


Fig. 8

**4.3.7 Locking the operators**

Re-lock the operators as shown in Fig. 11, making sure that the three rotation points are well aligned (see Fig. 8).

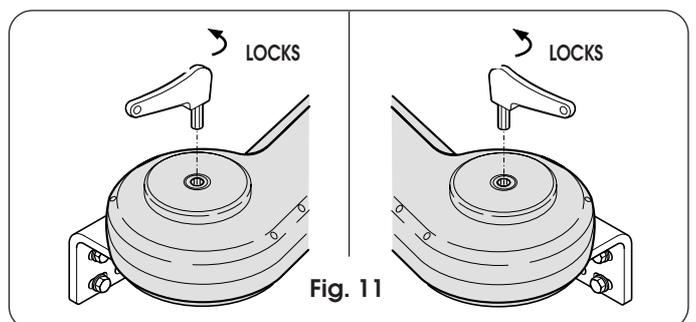
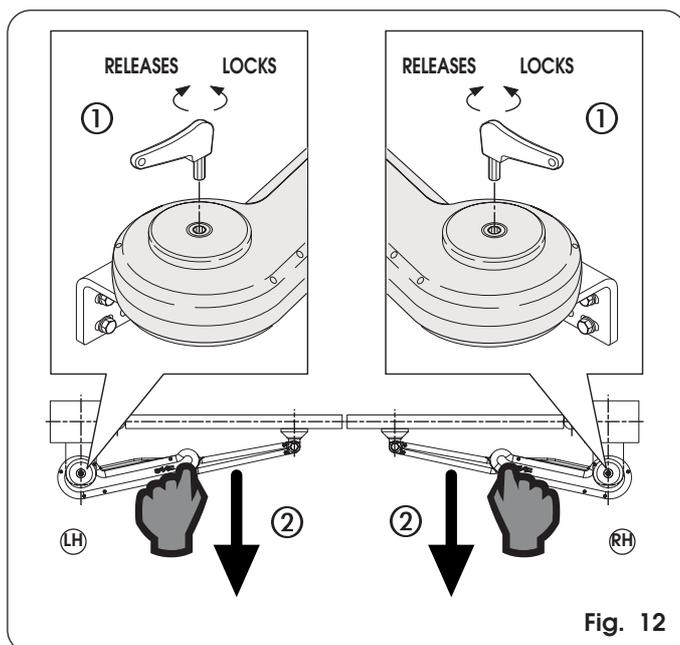


Fig. 11

## 5. MANUAL OPERATION

If the gate has to be moved manually due to a malfunction of the automated system, use the release/locking device as follows:

- Remove the protective cap from the release screw, fit the supplied Allen wrench and turn clockwise until it stops (Fig. 12 Ref. ①).
- Pull in the operator's 'elbow' zone and open the gate (Fig. 12 Ref. ②).



## 6. RESTORING NORMAL OPERATION MODE

If you wish to relock the gate, use the release/locking device as follows:

Fit the supplied Allen wrench and turn anti-clockwise until it stops (Fig. 12 Ref.①). Put back the protective cap.

## User's guide

# DOMOLINK AUTOMATED SYSTEM

**Read the instructions carefully before using the product and store them for future use**

### GENERAL SAFETY REGULATIONS

If correctly installed and used, the DOMOLINK automated system ensures a high degree of safety. Some simple rules concerning behaviour can prevent accidental trouble:

- Do not pass through the leaves while they are moving. Wait for the leaves to open fully before passing through.
- Do not, on any account, stand between the leaves.
- Do not stand near the automated system or allow children, persons or things to stand or lie there, especially while it is in use.
- Keep remote controls or other pulse generators away from children, to prevent the automated system from being activated involuntarily.
- Do not allow children to play with the automated system.
- Do not willingly obstruct leaf movement.
- Prevent any branches or shrubs from interfering with leaf movement.
- Keep indicator-lights efficient and easy to see.
- Do not attempt to activate the leaves by hand unless you have released them.
- In the event of a malfunction, release the leaves to allow access and wait for qualified technical personnel to do the necessary work.
- Before attempting any job on the system, cut out electrical power and disconnect the batteries (if provided).
- Do not in any way modify the components of the automated system.
- Do not attempt any kind of repair or direct action whatever and contact qualified personnel only for the purpose.
- At least every six months: arrange a check by qualified personnel of the automated system, safety devices and accessories.

### DESCRIPTION

These instructions apply to the following models:

#### FAAC DOMOLINK

The FAAC DOMOLINK automated system for residential swing gates consists of non-reversing electro-mechanical linear operators, powered by 12 Vdc, through battery or transformer. Each operator is coupled to an electronic control unit ensuring correct operation

If using the battery-powered version, it should be considered that this is a work battery (not a back-up battery) therefore when the battery is discharged, the automated system has to allow for its recharge in order to resume operation.

The operators are controlled by an electronic control unit (one for each motor), housed in an enclosure with adequate degree of protection against atmospheric agents.

The leaves are normally in closed position.

When the electronic control unit receives an opening command via the remote control or any other pulse generator, it activates the operator to rotate the leaves until they reach the opening position allowing access.

If automatic operating mode was set, the leaves closes automatically after selected pause time has elapsed.

If the semi-automatic operating mode was set, a second pulse must be sent to close the gate again.

A stop pulse (if supplied) always stops movement.

For details on the behaviour of the automated system in different function logics, consult the installation Technician. Automated systems may include safety devices that prevent the leaves from moving when there is an obstacle in the area they protect.

The DOMOLINK automated system is provided with an adjustable anti-crushing device which reverses leaf movement in case of contact with an obstacle.

The warning-light indicates that the leaves are moving.

### MANUAL OPERATION

If the gate has to be moved manually due to a malfunction of the automated system, use the release/locking device as follows:

- Remove the protective cap from the release screw, fit the supplied Allen wrench and turn clockwise until it stops (Fig. 1 Ref. ①).
- Pull in the operator's 'elbow' zone and open the gate (Fig. 1 Ref. ②).

### RESTORING NORMAL OPERATION MODE

- Fit the supplied Allen wrench and turn anti-clockwise until it stops (Fig. 1 Ref. ①). Put back the protective cap.

