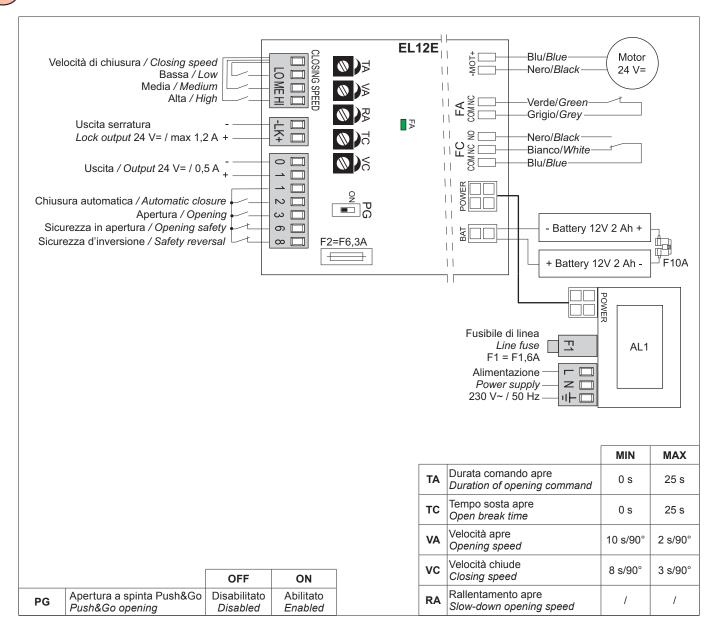


CE

EL12E

IP1892 rev. 2008-06-03

- Manuale di installazione quadro elettronico per automazione WELE.
- (GB) Electronic control panel installation manual for WELE automations.
- F Notice d'installation de la carte électronique pour automatisme WELE.
- Installationsanleitung für Steuerung WELE.
- E Manual de instalación cuadro electrónico para automación WELE.
- Manual de instalação do quadro electrónico para a automação WELE.



# **GENERAL SAFETY PRECAUTIONS**



This installation manual is intended for professionally competent personnel only. Installation, electrical connections and adjustments must be performed in accordance with Good Working Methods and in compliance with applicable regulations. Before installing the product, carefully read the instructions. Bad installation could be hazardous. Before installing the product, make sure it is in perfect condition. For repairs or replacements of products only original spare parts must be used.

## 1. TECHNICAL DATA

Refer to technical data and CE declaration of conformity contained in the manuals for WEL automations.

# 2. ELECTRICAL CONNECTIONS

Warning: link up all N.C. contacts (if not used) by means of jumpers. The terminal bearing the same number are equivalent.

### 2.1 Controls

Control		Function	Description	
1 2	N.O.	AUTOMATIC CLOSING	Automatic closing can be enabled by a permanent contact or it can be	
			managed by means of COMH-K function selectors.	
1 3	N.O.	OPENING	Start the opening operation. The duration of the open command is re-	
			gulated by the TA trimmer.	
1 6	N.C.	OPENING SAFETY	The opening operation that is being performed is abruptly slowed until	
			the complete stop without interrupting the count of the stop time and	
			automatic closing.	
1 8	N.C.	REVERSAL SAFETY CONTACT	Reverses movement (re-opens) during closing.	
FA —	N.C.	OPENING LIMIT SWITCH	Deceleration during opening.	
FC	N.O.	CLOSING LIMIT SWITCH	Deceleration during closing.	

## 2.2 Output and accessories

Output	Value	Description	
1 • +	24 V= / 0.5 A (max)	Accessories power supply. Output for powering of external accessories.	
0			
- LK +	24 V= / 1,2 A (max)	Electric lock (impulsed output). The electric lock is powered for 1 second	
	12 V~ / 15 W	each time an opening command is received when the automation is closed or	
		during the closing operation.	
- MOT +		Motor connection.	
POWER		AL1 power supply device connection.	
BAT 2 x 12 V / 2 Ah Battery kit. WELBAT battery kit connection enables opera		Battery kit. WELBAT battery kit connection enables operation in continuity	
		mode also in the event of power failure.	
		The electronic control panel connects the battery only if power supply is pre-	
		sent and keeps it charged; it uses it as a buffer battery or in the event of power	
		failure and disconnects it when voltage drops under 22 V after 30 s. To charge	
		battery, connect mains and battery kit at least 30 min. before starting up the	
		system. To stop powering the electronic panel, turn off power supply and di-	
		sconnect battery.	
		Warning: to allow recharge, battery kit must be always connected to electric	
		control. Regularly check for battery kit efficiency.	

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## 2.3 Trimmer

	Description	MIN.	MAX.
TA	<b>Duration of the opening command.</b> Adjusts the duration of contact 1 - 3 continuation.	0 s	25 s
TC	Stop time during opening. Stop time adjustment during opening. The count starts	0 s	25 s
	after the FA is activated and when the time set with the TA has elapsed.		
VA	Opening speed. Adjust the opening speed.	10 s/90°	2 s/90°
CLOSING SPEED		20 °/s	60 °/s
	Low closing speed selection contact;	4,5 s/90°	1,5 s/90°
Lico	or		
CLOSING SPEED	medium closing speed selection contact;		
CLOSING SPEED	or high closing speed selection contact.		
VC	It adjusts closing speed only when high closing speed is selected.		
RA	<b>Slow-down opening speed.</b> Adjust the opening speed after the tripping of limit switch FA.	1	1

# 2.4 Dip-Switches

	Description	OFF	ON 🖔
PG	Push&Go manual opening.	Disabled.	Enabled.

# 2.5 Signals

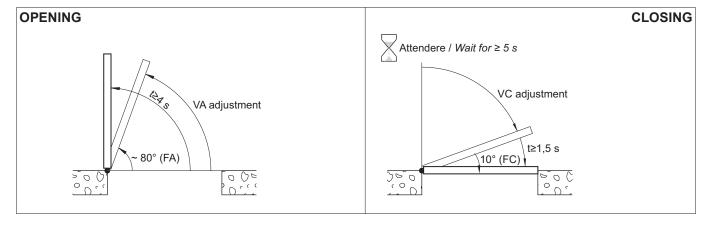
LED	ON	Flashing
FA	Indicates the activation of the open limit switch.	1

## 3. DOORS REQUIREMENTS FOR HANDICAPPED PEOPLE USE

If the WELE is used on doors for use also by handicapped persons, adjust the VA (opening) and VC (closing) so that the opening and closing times (excluding slow-down) are the same as or greater than those indicated in the following table.

Door wing weight					
Door wing length	50 kg	60 kg	70 kg	80 kg	90 kg
750 mm	3 s	3.1 s	3.2 s	3.3 s	3.5 s
850 mm	3.1 s	3.1 s	3.2 s	3.4 s	3.6 s
1000 mm	3.2 s	3.4 s	3.7 s	4 s	4.2 s
1200 mm	3.8 s	4.2 s	4.5 s	4.8 s	5.1 s

Perform also the adjustments indicated in figure:



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## 4. START UP



ATTENTION: Before performing any procedure, make sure that the device is not powered and that the batteries are disconnected

The operations regarding point 4.3 are without safety devices. The trimmer can only be adjusted with door not moving.

- 4.1 Adjust all trimmers to 1/4 rotation.
- 4.2 Short circuit the safety devices (1-6, 1-8) and the stop (1-2).
- 4.3 Power and by means of controls 1-3 and 1-4 check that the automation is working properly.

Adjust the opening speed with the VA trimmer.

Adjust the RA trimmer and move the opening limit switch FA to obtain a correct deceleration.

Adjust the door open stop time with the TC trimmer.

Adjust the desired spring closing speed by means of the CLOSING SPEED LO-ME-HI jumper and VC trimmer.

Move the FC closing limit switch to obtain a correct deceleration.

- 4.4 Make an estimate of the risks present and install and connect all the necessary safety devices (1-6, 1-8) to the electronic control panel. Check for their efficiency.
- 4.5 If push opening is required set PG=ON.
- 4.6 Connect any control devices and function selectors. Check for their efficiency.

#### 5. TROUBLESHOOTING

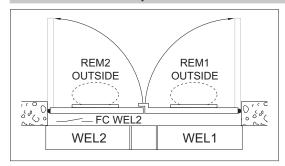
3. INCODELSITOOTIIN	0	
Problem	Possible causes	Remedy
The door does not open or clo-	COMH-K function selector with wrong setting.	Check and adjust COMH-K function selector
se or else it does not carry out		settings.
set functions.	Defective wiring.	Replace the wiring.
	COMH-K function selector not working.	Replace COMH-K function selector.
The door does not open or close.	Power failure.	Make sure electric control panel is powered.
	Accessories short circuit.	Disconnect accessories from terminals 0-1 (with
		24 V= voltage) and connect them again one at
		a time.
	Burnt line fuse.	Replace line fuse.
	Safety devices are triggered.	Check terminals 6 and 8 of the electronic con-
		trol panel.
		Make sure photocells and safety devices are
		clean and efficient.
	Radars are not triggered.	Make sure radars are working properly.
	The door is blocked by bolts and locks.	Make sure the wing can move freely.
The door opens but does not	Radars are triggered.	Make sure the radar is not subject to vibrations,
close.		nor carrying out false detections or detecting
		moving objects within its range of action.
	Automatic closing does not work.	Check 1-2 jumper and (if present) function se-
		lector position. Check the activation of the FA
		limit switch and adjustment of the TA trimmer.
External safeties are not trigge-	Wrong connections between safety devices and	Connect in series N.C. safety contacts and re-
red.	electronic control panel.	move any jumper.
The door opens by itself.	The radars are unstable or detect moving	Make sure the radar is not subject to vibrations,
	objects.	nor carrying out false detections or detecting
		moving objects within its range of action.
The door opens/closes for a		Check motor wires.
short interval than stops.	Some friction is present.	Check manually that the wing can move freely.
		Make sure there is no dirt or grit under the
		wing.

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#### **EXAMPLE OF APPLICATION**

#### 6.1 Automations in parallel



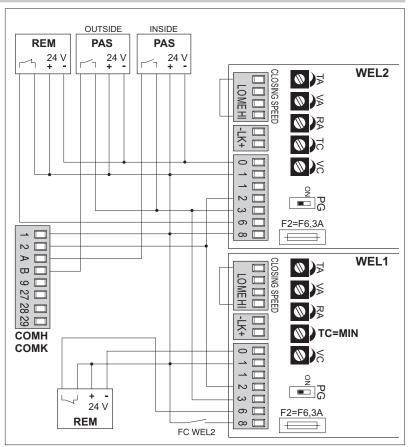
If the door has two overlapping leaves, two automations can be controlled in parallel [WEL 1] and [WEL 2], using the connections indicated in the drawings.

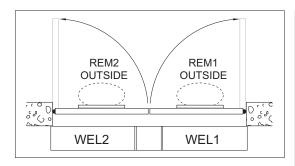
The movement of the two leaves is not synchronised, the first leaf [WEL1] only closes when the second leaf [WEL2] is completely closed.

The opening speed trimmer (VA) must be adjusted in the same position in both automations.

The TC trimmer for the automation that closes the first leaf [WEL 1] should be adjusted to minimum. For automatic closing of the first leaf [WEL1], a limit switch must be installed that will be activated when the second leaf [WEL2] is closed. Connect the limit switch as shown in the diagram.

Note: the closure limit switch [FC WEL2] is not supplied by us with automations and must be applied to the leaf.

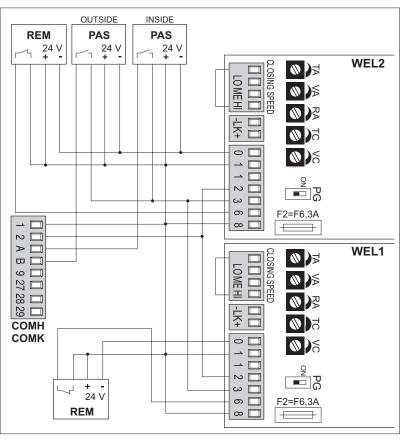




In case of a swing door with two doors without overlap, it is possible to control 2 automations [WEL 1] and [WEL 2] concurrently, making sure that the connections, as indicated in the figures, have the following variants:

- set the VA, VC, TC trimmers in the same positions.
- do not install the limit switch FCWEL2.

The movement of the two doors is not synchronised.



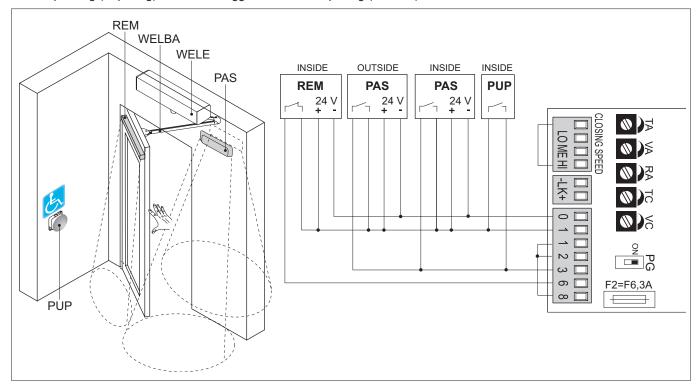
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# 6.2 Door with Push&Go opening, articulated arm (WELBA) and control for handicapped people.



The door opens by PAS radar control (1-3) and PUP push-button (1-3), closes automatically (1-2), operates opening safety by means of REM device (1-6).

Manual pushing (or pulling) of the door triggers motorized opening (PG=ON).



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All data and specifications have been drawn up and checked with the greatest care. The manufacturer cannot however take any responsibility for eventual errors, omissions or incomplete data due to technical or illustrative purposes.

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