

R50



OPERATORE PER PORTONI INDUSTRIALI
OPERATEUR POUR PORTAILS INDUSTRIELS
OPERATOR FOR INDUSTRIAL DOORS
TORANTRIEB FÜR INDUSTRIETORE

Operatore
Operateur
Operator
Torantrieb

Alimentazione
Alimentation
Power Supply
Stromspannung

Peso max cancello
Poids maxi portail
Max gate weight
Max Torgewicht

codice
code
code
code

R50

230V 50/60Hz

2000 kg / 4460 lbs

AA21580



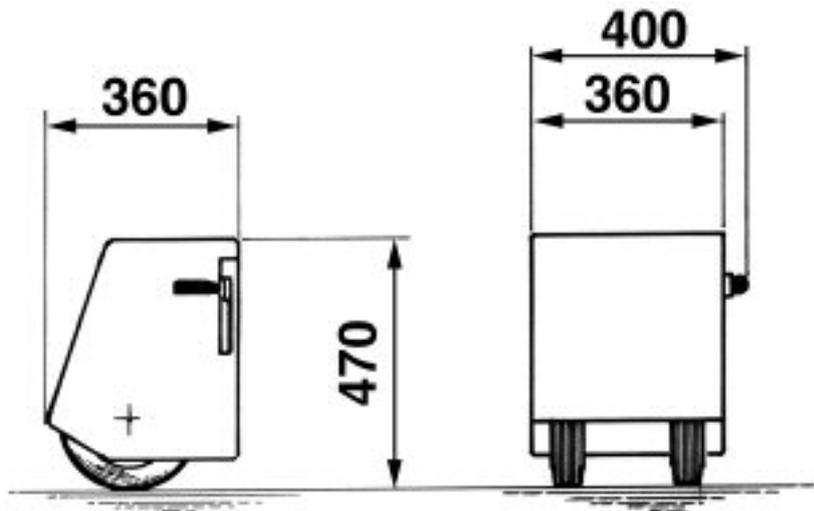
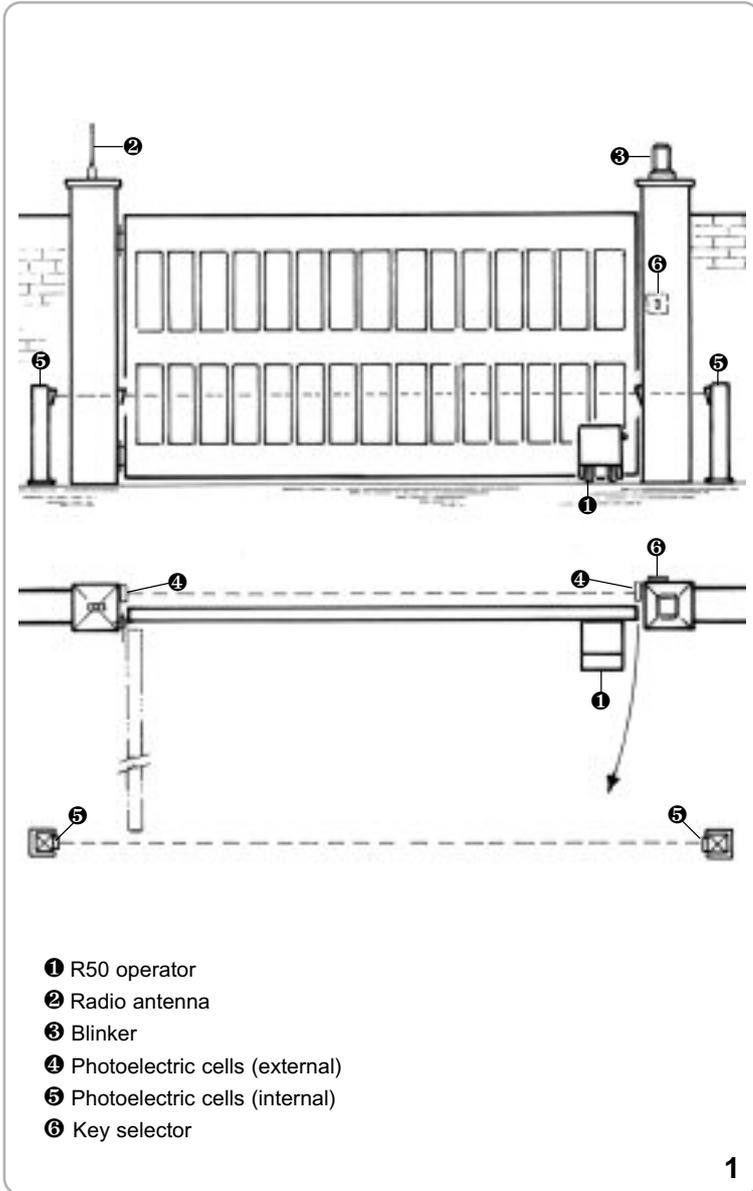
TECHNICAL FEATURES

Gearmotor for operating industrial swing gates with overall maximum weight of 2000 kg.

The R50 is an irreversible electric gearmotor with adjustable drive force, regulated by changing the pressure exerted by the drive wheels on the ground.

The drive wheels are able to run over surface irregularities of up to 6 cm (approx.), because the gearmotor unit slides along a vertical track. The pressure setting between the drive wheels and the ground can vary from 30 to 130 kg maximum and is maintained by an adjustable spring.

TECHNICAL DATA	R50	
Max. leaf length	m	10
Max. leaf weight	kg	200
Average opening time 90°	s.	78
Operating speed	m/s.	0,180
EEC Power supply	230V~ 50/60Hz	
Motor capacity	W	295
Power absorbed	A	1,96
Capacitor	µF	16
EEC Power supply	120V~ 60Hz	
Motor capacity	W	251
Power absorbed	A	2,26
Capacitor	µF	40
230/50-60 Normative cycles	n°	3 - 78s/2s
120/60 Normative cycles	n°	8 - 78s/2s
Daily cycles suggested	n°	300
Service		60%
Consecutive cycles guaranteed	n°	4/78s
Lubrication	IP MELLANA 100	
Actuator weight	kg	45
Operating temperature	°C	-10 + +55°C
Protection grade	IP	547



Measurements in mm

PRE-INSTALLATION CHECKS

The leaf must be fixed firmly on the hinges to the pillars, must not be flexible during the movement and must move without frictions. The ground on which the R50 wheels run must be solid and compact with minimum gradient.

Gate features must be uniformed with the standards and laws in force. The door/gate can be automated only if it is in a good condition and its conditions comply with the EN 12604 norm.

- The door/gate leaf does not have to have a pedestrian opening. In the opposite case it is necessary to take the appropriate steps, in accordance with EN 12453 norm (for instance; by preventing the operation of the motor when the pedestrian opening is opened, by installing a safety microswitch connected with the control panel).
- No mechanical stop shall be on top of the gate, since mechanical stops are not safe enough.

R50 INSTALLATION

The ground should be compact and without any excessive differences in level along the tract destined for wheel run.

Secure the gearmotor plate to the corner of the gate leaf and ensure that the drive wheels rest on the ground.

Drill four Ø 6.5 mm holes in the leaf, then tap them with M8 male threading.

Insert four M8 bolts and tighten with a No. 13 wrench.

Remove the elastic pin which prevents the wheels from turning (Fig. 6). If the drive wheels slide on the ground during operation, turn the set screw on the spring clockwise to increase the pressure between the wheels and the ground.

Parts to install meeting the EN 12453 standard

COMMAND TYPE	USE OF THE SHUTTER		
	Skilled persons (out of public area*)	Skilled persons (public area)	Unrestricted use
with manned operation	A	B	non possible
with visible impulses (e.g. sensor)	C or E	C or E	C and D, or E
with not visible impulses (e.g. remote control device)	C or E	C and D, or E	C and D, or E
automatic	C and D, or E	C and D, or E	C and D, or E

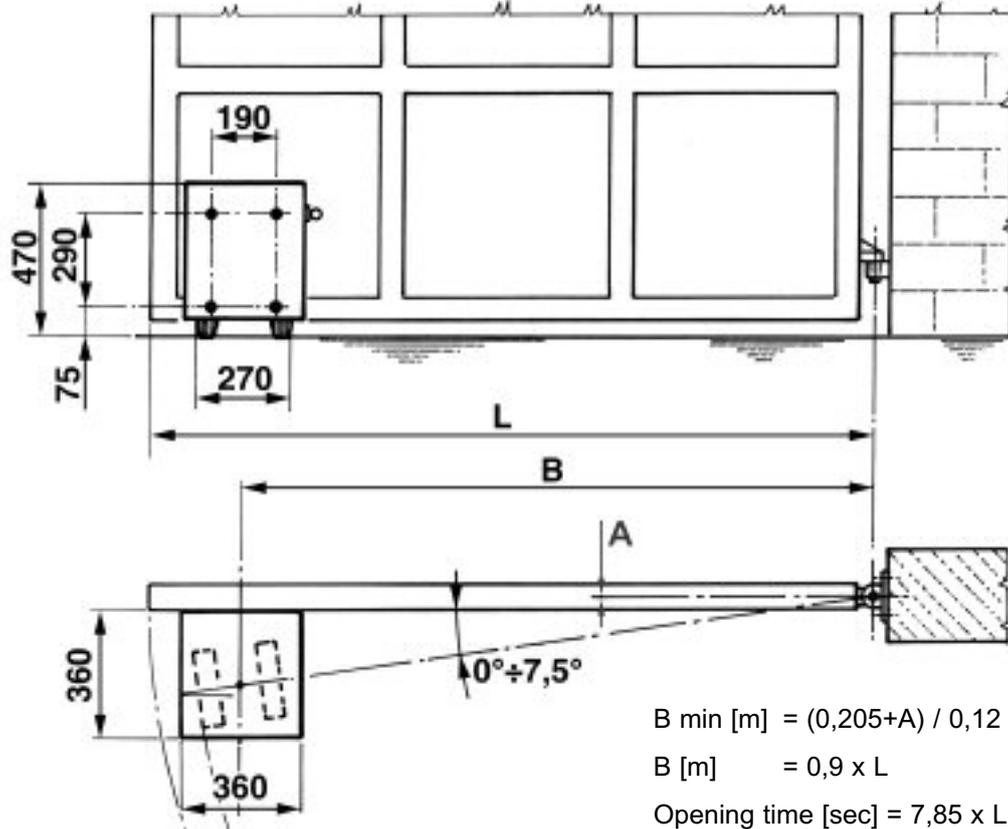
* a typical example are those shutters which do not have access to any public way
 A: Command button with manned operation (that is, operating as long as activated), like code ACG2013
 B: Key selector with manned operation, like code ACG1010
 C: Adjustable power of the motor
 D: Safety edges, like code ACG3010 and/or other safety devices to keep thrust force within the limits of EN12453 regulation - Appendix A.
 E: Photocells, like code ACG8026 (To apply every 60÷70 cm for all the height of the column of the gate up to a maximum of 2,5 m - EN 12445 point 7.3.2.1)

To reduce wheel wear during operation, loosen nuts (D) with a No. 13 wrench and tilt the rubber wheels so that the axles coincide with the center of the gate leaf pivot point.

The wheels may be tilted by 0° to 7.5°. Retighten the two nuts.

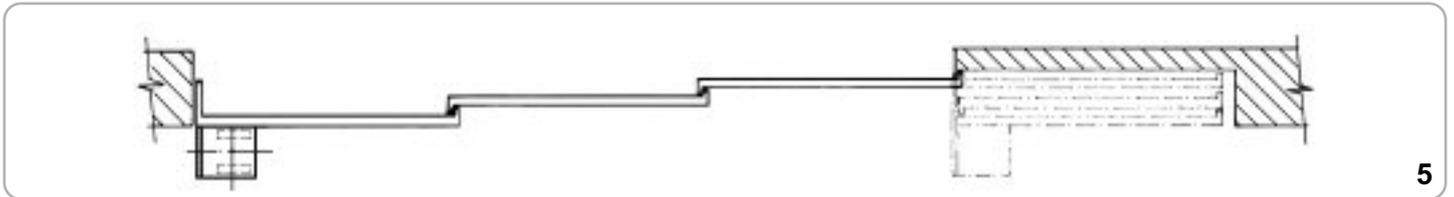
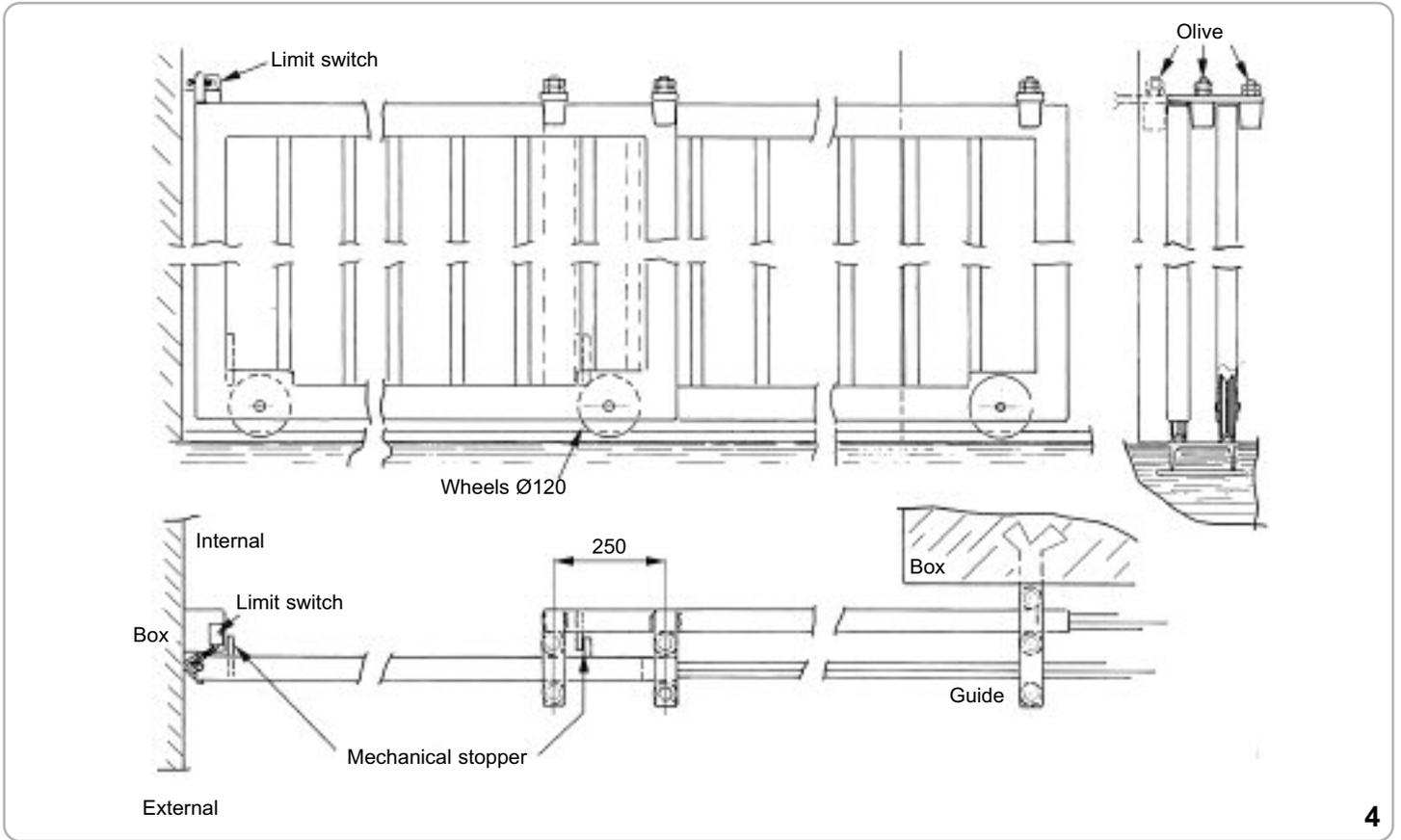
The R50 is equipped with two waterproof, armored limit stops to electrically control gate travel.

The limit stops should be positioned in accordance with installer requirements.



R50 APPLICATION ON MULTIPLE PANEL DOORS

In this case the R50 must be installed on the first leaf.



EMERGENCY RELEASE

To be undertaken after disconnecting power supply.

In the event of a power failure, raise the side handle to lift the wheels off the ground.

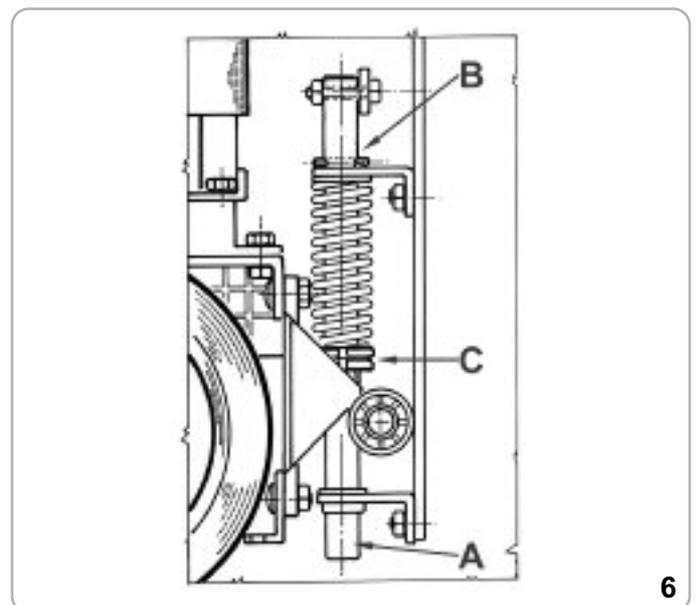
In order to carry out the manual operation of the gate leaf the followings must be checked:

- That the gate is endowed with appropriate handles;
- That these appropriate handles are placed so to avoid safety risks for the operator;
- That the physical effort necessary to move the gate leaf should not be higher than 225 N, for doors/gates for private dwellings, and, 390N for doors/gates for commercial and industrial sites (values indicated in 5.3.5 of the EN 12453 norm

A : Maximum stroke 60 mm during movement (holes or uneven ground)

B : Remove the elastic pin, after the unit is secured, to release the spring.

C : Spring set screw.



ELECTRICAL SAFETY DEVICES

The installation must be installed according to the current regulations and laws.

Use the KS2 electronic control unit.

For connections and technical data of accessories refer to the appropriate booklets.

MAINTENANCE

To be undertaken by specialized staff after disconnecting power supply.

Clean the wheel contact surfaces carefully once a week.

Check wheel/ground pressure and condition of motor wheels every six months.

The motor should be overhauled every two years and the oil replaced.

ACCESSORIES - For the connections and the technical data of the optional equipments follow the relevant handbooks.

Ks2

Automatic travel and timing code learning system

Automatic closure

Pre-blinking

Slow speed in close position approach

Electronic adjustment of the force

Radio command - step by step or automatic

Single command - step by step or automatic

Directional open and close commands (with timer control)

Electric lock release operation

Stop command

Connectable to encoder to detect obstacle - photocells - strips - blinker - key

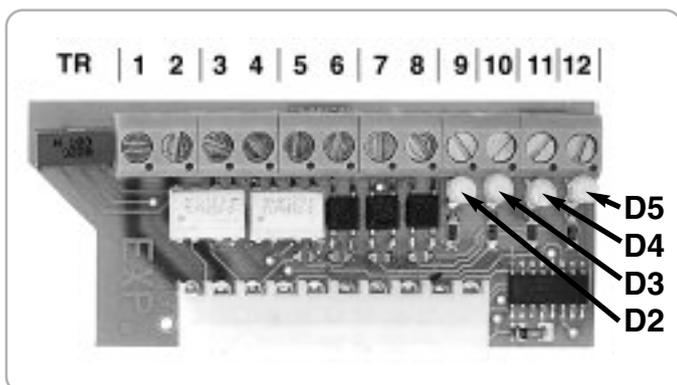
selector - buzzer - electric lock

code ABKS105 => 230V

code ABKS104 => 120V



EXPANDER CARD

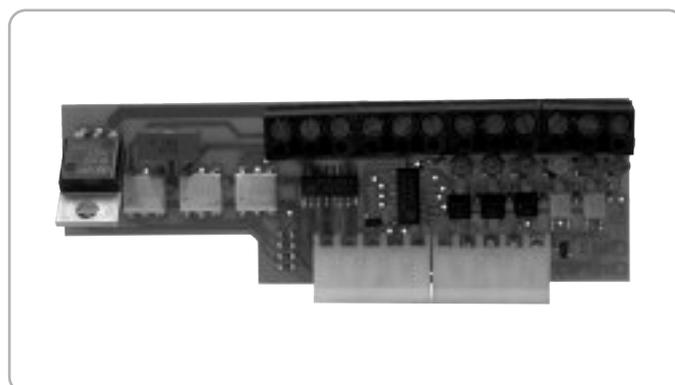


!! FEED THE EXP CARD IN WHEN POWER IS NOT SUPPLIED !!

- PEDESTRIAN OPENING COMMAND
- AUTOMATIC PEDESTRIAN CLOSING
- MANAGEMENT OF THE SAFETY EDGE
- 24VAC ACCESSORIES FEEDING
- MANAGEMENT OF THE TRAFFIC LIGHT CONTR
- MANAGEMENT OF THE COURTESY LIGHT
- CLOSING COMMAND AFTER PASSING THROUGH THE PHOTOCELLS*

code ACG5470

EXPANDER PLEX CARD



LIKE EXPANDER BOARD, BUT IN ADDITION WITH:

- AUTOTEST OF 4 PHOTOCELLS
- AUTOTEST STRIPS
- *NOT FOR EXPANDER PLEX

code ACG5472

RADIO TRANSMITTER MOON



CODE LEARNIG SYSTEM RADIORECEIVERS



- RX91/A quarzata and coupling code ACG5005
- RX91/A quarzata and terminal board code ACG5004
- RX433/A super eterodyne and coupling code ACG5055
- RX433/A super eterodyne and terminal board code ACG5056
- RX433/A 2CH super eterodyne, 2 channel and coupling code ACG5051
- RX433/A 2CH super eterodyne, 2 channel and terminal board code ACG5052

SPARK



In order to make the systems mentioned above give the best performances, you need to install an antenna tuned on the frequency of the radio receiver installed.

N.B. Pay attention to not let the central wire of the cable to come into contact with the external copper sheath, since this would prevent the antenna from working.

Install the antenna vertically and in such a way the remote control can reach it.

- SPARK ANTENNA 91** code ACG5454
- SPARK ANTENNA 433** code ACG5452
- SPARK BLINKER WITH IN-BUILT INTERMITTENT CARD** code ACG7059

FIT SYNCRO

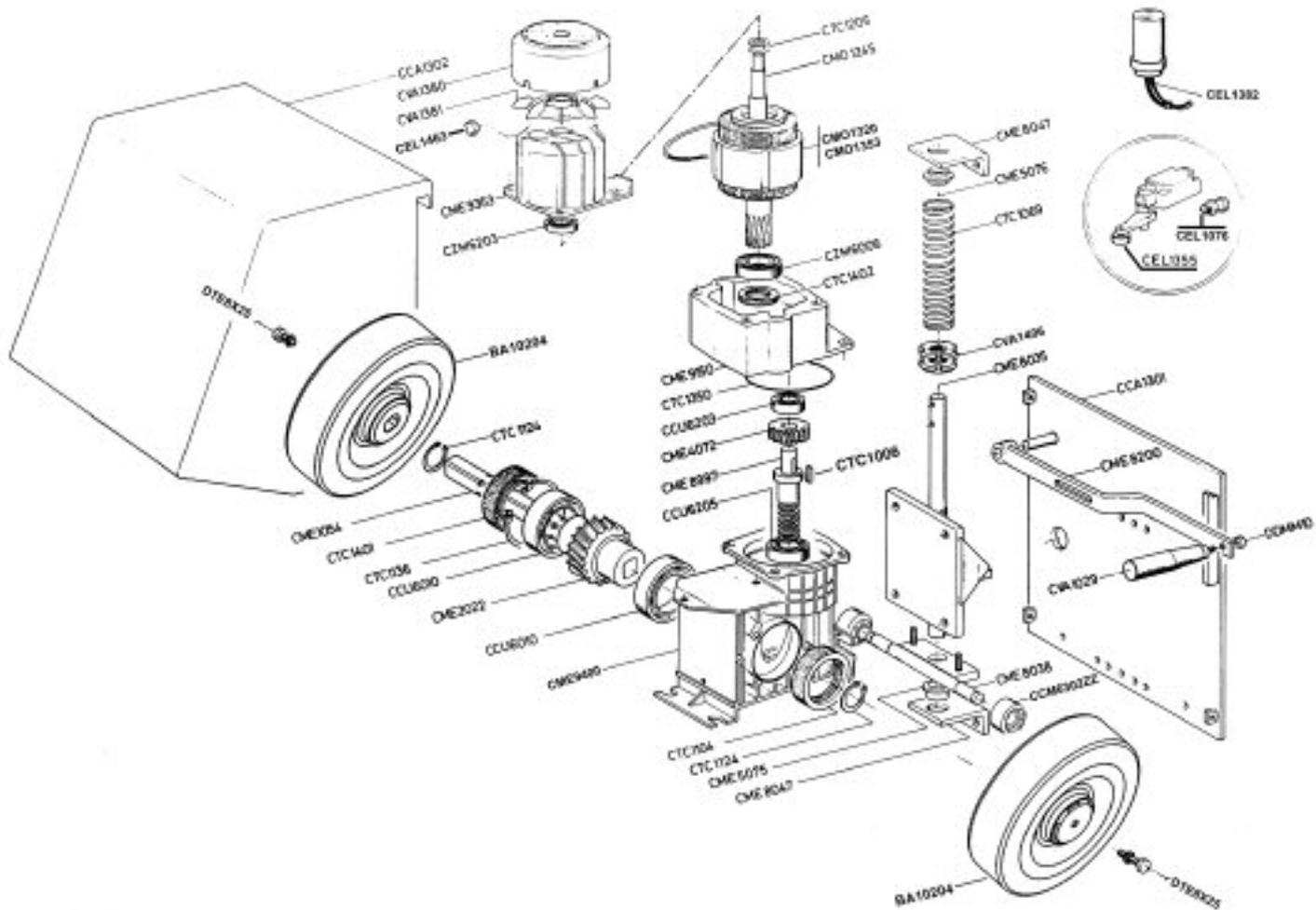


FIT SYNCRO PHOTOCELLS for the wall-installation code ACG8026
The range you can set is 10-20 m, 30+60ft.

You can fit many couples close together thanks to the synchronising circuit.

Add the **SYNCRO TRANSMITTER** code ACG8028
for more than 2 photocells couples (up to 4).

COUPLE OF BUILT-IN BOXES FOR THE FIT SYNCRO code ACG8051



MADE IN ITALY

Questo prodotto è stato completamente progettato e costruito in Italia - Ce produit a été complètement développé et fabriqué en Italie - This product has been completely developed and built in Italy - Dieses Produkt wurde komplett in Italien entwickelt und hergestellt

Codice	Denominazione Particolare	Codice	Denominazione Particolare	Codice	Denominazione Particolare
BA10204	Ruota trascinamento R50	CME8200	Leva di sblocco manuale R50	CVA1029	Manopola MCG 28 85 GIR
CCA1301	Piastra di base	CME8997	Vite senza fine	CVA1380	Copriventola motore
CCA1302	Carter	CME9150	Controflangia	CVA1381	Ventola
CCU6010	Cuscinetto 6010	CME9353	Cappello	CVA1406	Ghiera reg. friz. Prem.
CCU6203	Cuscinetto 6203	CME9400	Carcassina	CZM6006	Cuscinetto motore 6006ZZ
CCU6205	Cuscinetto 6205	CMO1245	Rotore con albero	CZM6203	Cuscinetto motore 6203ZZ
CEL1076	Pressacavo PG13.5	CMO1320	Statore 230V 50/60Hz 1P	DDMM10	Dado 10MA medio
CEL1463	Blocca Cavo SR6P3-4	CMO1353	Statore 120V 60Hz 1P	DTE8X25	Vite TE 8X25 UNI5739
CEL1355	Finecorsa 3SE3120-1G	CCM6302ZZ	Cuscinetto 6302ZZ		
CEL1382	Condensatore 16µF 450V	CTC1006	Chiavetta 6x6x20		
CME1054	Albero di traino	CTC1069	Molla per R50		
CME2022	Corona con mozzi Z=38	CTC1104	Paraolio 50x72x10		
CME4072	Ingranaggio Z=29	CTC1124	Seeger E28		
CME5075	Bussola inf. R50	CTC1136	Seeger I 80		
CME5076	Bussola sup. R50	CTC1206	Molla a tazza		
CME8035	Supporto motore R50	CTC1350	Anello di tenuta		
CME8038	Timone regolab. R50	CTC1401	Paraolio 50x80x8		
CME8047	Squadretta di guida R50	CTC1402	Paraolio30x47x7		

Cod. CVA1246 - 16012008 - Rev. 14

COMPANY
WITH QUALITY SYSTEM
CERTIFIED BY DNV
=ISO 9001/2000=



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automatic entry systems

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SELF INSTALL - NEED TECHNICAL ASSISTANCE?

OPTION 1: DIRECT WITH THE SERVICE DESK – QUICKEST AND MOST EFFECTIVE METHOD

Submit your enquiry direct with the service desk at – service@automaticsolutions.com.au

The service desk has the most experienced staff in Australia to help with your problem but they need your help.

- Describe your problem in detail and as clearly as possible. Don't forget to include a telephone number.
- Be certain to detail which model or models of you are working with.
- Send photos of the installation – they love photos. The people at the service desk are good but they are even better when they can see the installation. Send photos of the overall scene so they can see the entire installation. Also send photos of the wiring to the control board and any other part of the installation you think is relevant.
- Send video if appropriate. Smartphone's these days take remarkably good video in small file sizes which can be emailed in a moment. If your problem needs a video to show the issue please feel free to send it.

**NOTE: THIS IS BY FAR THE FASTEST AND MOST SUCCESSFUL WAY TO SOLVE YOUR PROBLEM
PHOTOS AND VIDEOS ARE THE NEXT BEST THING TO BEING THERE**

OPTION 2: LODGE YOUR ENQUIRY LOCALLY - SLOWER BUT CAN STILL BE EFFECTIVE

Make contact with the store of purchase. Branch staffs are typically not technicians and dependent on their length of service will have varying degrees of technical knowledge. If they cannot help however they will certainly either source help locally from their technicians or make contact with the service technicians on your behalf.

OPTION 3: SERVICE CALL WITH AUTOMATIC SOLUTIONS TECHNICIAN – SLOWEST METHOD

If you fall within the local branch service area it may be possible to book a local technician to look at your installation. Wait times will vary dependent on local workloads. The cost is a service fee which includes the first half hour and the hourly rate thereafter. If any Automatic Solutions provided parts are found to be defective and within warranty these will be provided free of charge.

(NOTE: If you suspect that any parts are defective and within warranty you may wish to consider option 4)

A note on this option: If you decide on this option you will be asked to sign an "authorisation to proceed" which will provide legal authority and payment security. This form has three options available of which only the first two are available to you. The third option is for warranty repairs only for full install customers. Self install customers requiring warranty only service need to refer to option four below.

IMPORTANT: IN SHORT THIS OPTION WILL INCUR CHARGES

OPTION 4: RETURN THE PRODUCT IF BELIEVED TO BE FAULTY

As a self install customer who has purchased product if you believe the product to be faulty rather than an installation or site problem you have the option of returning the product for evaluation and to exercise your right to a replacement, repair or refund as applicable. All returned product is forwarded immediately to the service technicians for evaluation and response. There are two main methods available to return product –

- Direct to the service centre – this is the quickest method as it cuts out the branch delay
- Via the branch of purchase – slower because of the delay at the branch

When choosing this option you need to complete a product return form. This form gives you all the information on procedure involved and where to send to. These are available at the branch of purchase, can be emailed to you (contact your branch), or available here - <http://automaticsolutions.com.au/page/warranty.php>