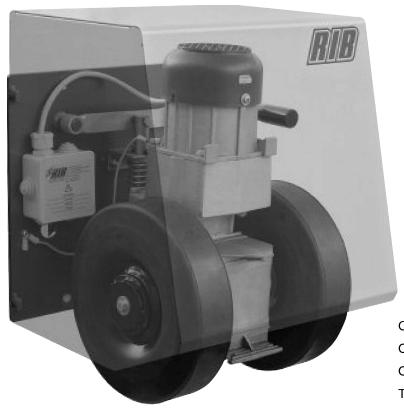
R50



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

Operatore
Operateur
Operator

Torantrieb

R50

Alimentazione Alimentation Power Supply Stromspannung

230V 50/60Hz

Peso max cancello Poids maxi portail Max gate weight Max Torgewicht

2000 kg / 4460 lbs

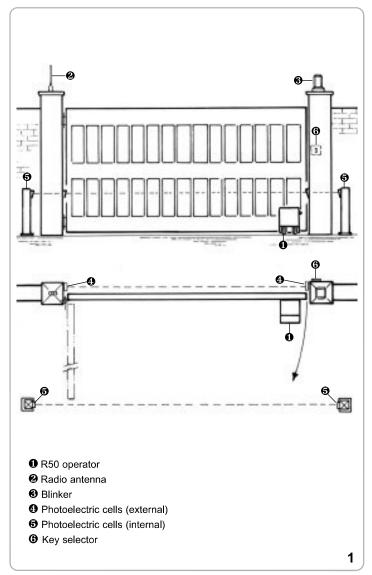
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code

AA21580

CE

SYSTEM LAY-OUT



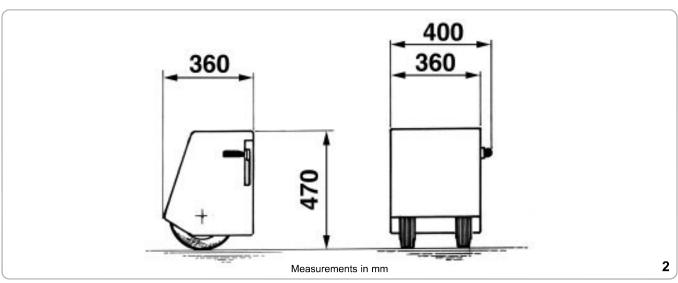
TECHNICAL FEATURES

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		
Lubrification	IP MELLANA 100		
Actuator weight	kg 45		
Operating temperature	°C -10 ÷ +55°C		
Protection grade	IP 547		



PRE-INSTALLATION CHECKS

The leaf must be fixed firmily 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 \varnothing 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	Α	В	non possibile		
with visible impulses (e.g. sensor)	C or E	C or E	C and D, or E		
with not visible impulses (e.g. remote controldevice)	(:∩r ⊢	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		

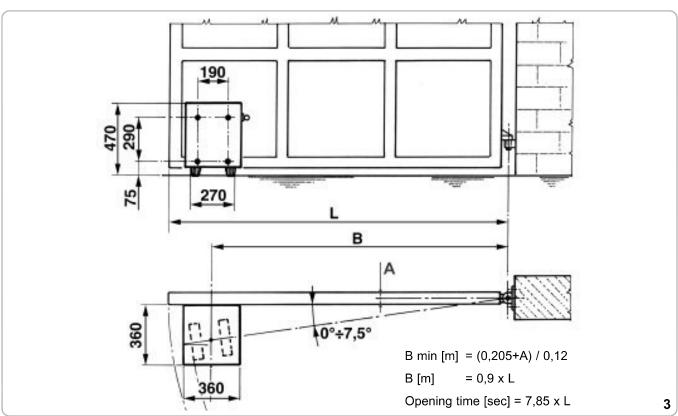
- * a typical example are those shutters which do not have access to any public way
- A: Command button with manned operation (that is, operating as long as activated), like code ACG2013
- B: Key selector with manned operation, like code ACG1010
- C: Adjustable power of the motor
- D: Safety edges, like 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.

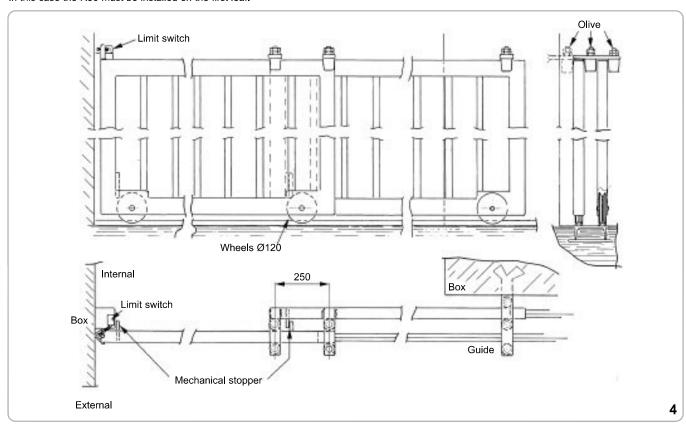
The R50 is equipped with two waterproof, armored limit stops to electrically control gate travel.

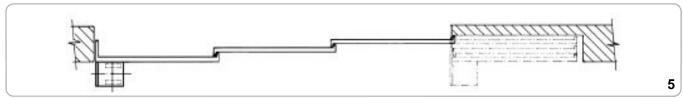
The limit stops should be positioned in accordance with installer requirements.



R₅₀ APPLICATION ON MULTIPLE PANEL DOORS

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





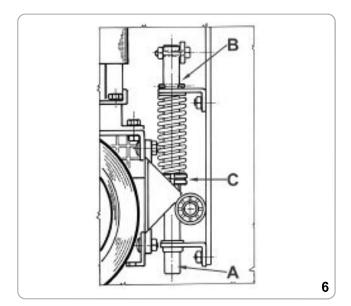
EMERGENCY RELEASE

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

K_{S2}

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

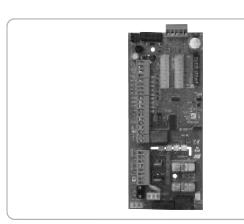
Directional open and close commands (with timer control)

Electric lock release operation

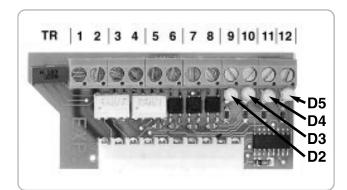
Stop command

Connectable to encoder to detect obstacle - photocells - strips - blinker - key selector - buzzer - electric lock

code ABKS105 => 230V code ABKS104 => 120V



EXPANDER CARD

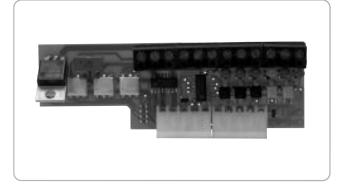


!! FEED THE EXP CARD IN WHEN POWER IS NOT SUPPLIED !!

- 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

MOON 433 - MOON 91 MOON CLONE 433 code ACG6081 433 code ACG6082 91 code ACG7025 91 code ACG7026 MOON CLONE code ACG6093

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 came 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.

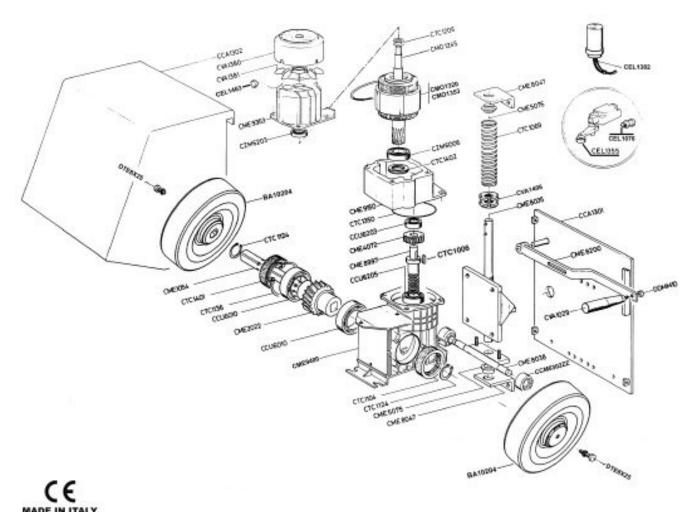
You can fit many couples close together thanks to the synchronising circuit.

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



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

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

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