KING

OPERATORE IRREVERSIBILE PER CANCELLI A BATTENTE OPERATEUR IRREVERSIBLE POUR PORTAILS À BATTANT IRREVERSIBLE OPERATOR FOR LEAF GATES TORANTRIEBE FÜR FLÜGELTORE OPERADOR IRREVERSIBLE PARA CANCELAS DE BATIENTE



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TECHNICAL FEATURES

KING is a series of linear irreversible operators, suitable for opening gates with a leaf length of up to 4,5 metres (Fig.1). The KING operators use mechanical stoppers, thus avoiding the need for electrical limit switches.

On reaching the travel limit, the motor continues to operate for a few seconds, until the timer of the control unit cuts in.

TECHNICAL DATA	KING	KING L		
Max. leaf length	m 3,5*	4,5*		
Max. leaf weight	kg 400	500		
Max. travel	mm 345**	475**		
Average opening time	s. 14÷27	29÷38		
Operating speed	m/s. 0,	0125		
Thrust force	N 18	300		
EEC Power supply	230V~	50Hz		
Motor capacity	W 2	290		
Power absorbed	A 1	1,2		
Capacitor	μF	10		
Power supply	220V~	60Hz		
Motor capacity	W 2	25		
Power absorbed	A 1,04			
Capacitor	μF 8			
Power supply	120V~ 60Hz			
Motor capacity	W 255			
Power absorbed	A 2	2,3		
Capacitor	μF 3	35		
No. normative cycles 230V	17 - 14s/2s	10 - 33s/2s		
No. normative cycles 220V	31 - 14s/2s	20 - 33s/2s		
No. normative cycles 120V	29 - 14s/2s	11 - 35s/2s		
No. of daily operations suggested	15	50		
Service	60%			
No. guaranteed consecutive cycles	20/14s 15/33s			
Grease	Bechem - RHUS 550			
Weight of electroreducer	kg 10	14		
Noise	db <	:70		
Volume	m³ 0,0184	0,0211		
Operating Temperature	°C -10 ÷	+55°C		
Protection	IP	44		

** With incorporated mechanical stop that cuts in during opening. - If the mechanical stop is used during closing (optional), the maximum travel is reduced by 50 mm.



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.

Before the installation of KING, verify all dimensions etc.

There's no need for any modification, if the gate is like that shown in Fig. 1.

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

- The 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.

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	А	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)	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÷70cm for all the height of the column of the gate up to a maximum of 2,5m EN 12445 point 7.3.2.1)

${f F}$ ixing the actuator attachment to the column

To obtain a correct movement of the leaf gate it is necessary to respect the measures (to see the TABLES of the measures).

COLUMN ATTACHMENT FOR KING OPERATOR (code CCA1293 - CCA1294)

If the column is in iron, the attack can be screwed directly using four metric screws M8.

If the column is in concrete, the attack can be fixed with four expansion screws \emptyset 8 mm (Fig. 2-3).

In the case you have a wall parallel with the open gate, you must provide a niche in which to place the operator.

COLUMN ATTACHMENT FOR KING L OPERATOR (code CCA1370 - CCA1319)

To obtain a correct movement of the leaf gate it is necessary to respect the measures.

If there is an iron pillar you can weld the attachment directly.

If there is a cement pillar, you can use the fixing plate as in Fig. 5 which is fastened with 4 Fischer-screws of Ø 8 mm.

There is also the possibility to cement the attachment welding an anchor at its base Fig. 6.

Naturally you have to respect predetermined fixing measures.

Afterwards you must weld the other actuator's attachment to the gate (Fig. 8).

In the case you have a wall parallel with the open gate, you must provide a niche in which to place the operator.





FIXING THE OPERATOR ATTACHMENT TO THE GATE (to see the TABLES of the measures).

Weld the base at the right height (Fig. 8). Fix the KING and try several times to open and to close the gate, controlling that the screwcover does not touch the moving gate.





RESPECT THE MEASURES FOR A CORRECT INSTALLATION

	L Min.÷Max	α	A max	в	С	D	Е	T sec	ANT	COL
KING	1÷1,80		45	100	100	815	90	14	А	S3-Y
KING	1,81÷2,20		45	110	110	815	90	18	А	S3-X
KING	2,21÷2,50		70	140	110	815	90	20	А	S1-Z
KING	2,51*÷3,00*	90°	90	170	140	815	115	25	В	S2-Y
KING	3,01*÷3,50*		115	200	140	815	115	27	В	S2-Y
KING L	3,51*÷4,00*		105	190	190	945	150	26	D	-
KING L	4,01*÷4,50*		160	214	120	945	150	20	D	-

	L Min.÷Max	α	A max	в	С	D	Е	T sec	ANT	COL					
KING	1÷1,80			90	140	815	90	20	Α	S1-Z					
KING	1,81÷2,20								100	130	815	90	21	Α	S2-Y
KING	2,21÷2,50*				110	140	815	115	24	В	S1-Y				
KING L	2,51*÷3,00*	110°	20	130	140	945	120	29	С	-					
KING L	3,01*÷3,50*			160	150	945	120	19	С	-					
KING L	3,51*÷4,00*			160	230	945	150	22	D	-					

* In the case of leaf longer than 2,5 metres, an electric lock must be fitted to ensure efficient closing.

If the pillar is too large, and it is not possible to adjust the actuator respecting the measure (B), you must make a niche in the pillar or you have to move the gate to the edge of the pillar.

RESPECT THE MEASURES WITH 2 MECHANICAL STOPPERS

	L Min.÷Max	α	A max	В	С	D	Е	T sec	ANT	COL
KING	1÷1,80		45	100	100	775	90	14	A	S3-Y
KING	1,81÷2,20		45	110	110	775	90	18	A	S3-X
KING	2,21÷2,50		70	140	110	775	115	20	В	S1-Z
KING	2,51*÷3,00*	90°	70	160	140	775	115	25	В	S1-Y
KING L	3,01*÷3,50*		60	170	170	905	120	23	С	-
KING L	3,51*÷4,00*		100	190	180	905	120	25	С	-

	L Min.÷Max	α	A max	В	С	D	Е	T sec	ANT	COL									
KING	1÷1,80	110°			90	140	775	90	20	Α	S1-Z								
KING	1,81÷2,20			100	130	775	90	21	A	S2-Y									
KING	2,21÷2,50*		110°	110°	110°	110°	110°	110°	110°	110°	110°	20	110	140	775	115	24	В	S1-Y
KING L	2,51*÷3,00*						130	140	905	120	18	С	-						
KING L	3,01*÷3,50*			130	150	905	120	19	С	-									

MECHANICAL STOP - OPTIONAL

Code ACG8089

Optional mechanical stop to stop closing, if the gate is not fitted with a floor stop (Fig. 11).





MECHANICAL STOPPER ADJUSTMENT

To adjust the stoppers you have to follow the scheme (Fig. 12). To set the opening limit it's enough to fix the stopper (A) in the needed position by tightening the 8mA screw with a n.13 key.

To obtain the desired closing limit you must adjust the stopper (B) (OPTIONAL)) in the needed position and tighten it as for stopper (A).

EMERGENCY RELEASE

To move the gate manually it is necessary to release the operator inserting the special key and turning it 3 times in the anti-clockwise sense (Fig. 14). 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).

ELECTRICAL SAFETY DEVICES

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

It is recommended that the following electronic control units be used:

- T2 for 1 or 2 single-phase KING.

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

CONNECTION TO THE POWER SUPPLY

In **single-phase KING** units, **terminals 1-2-3** of the motor connector must be connected respectively **to terminals V-W-U** of the control panel.

WARNING!

The length of connection cables from the motors to the control panel unit must not exceed 15 m.

The wire section of the motor power supply must be 2.5 $mm^2,$ whilst that of the accessories must be 0,75 $mm^2.$

FORCE ADJUSTMENT

Single-phase KING require a T2 electronic control panel, equipped with electronic force regulator.

MAINTENANCE

To be undertaken only by specialized staff after disconnecting power supply.

Lubricate the hinges and check the oil level and thrust force generated by the operator on the gate once a year.

Lubricate the nut screw with silicon grease every two years.







T2

T2 Wi-Fi

code ABT2000 => CRX 230/50-60HZ code ABT2001 => 230/50-60HZ code ABT2002 => CRX 120/60HZ code ABT2003 => 120/60HZ

With MASTER Wi-Fi card. code ABT2001W





Automatic travel and timing code learning system Pedestrian opening command Pedestrian and total automatic closure Pre-blinking Adjustable slow speed in approaching Electronic adjustment of the force Radio command - step by step or automatic total opening Radio command - step by step or automatic pedestrian opening Single command - step by step or automatic Electric lock release operation Built-in radio receiver 433MHz Management of the photocells Automatic closing after the transit through the photocell Management of the blinker Management of the strips Safety strip autotest as required by EN12453 Key selector Buzzer Electric lock

CODE LEARNIG SYSTEM RADIORECEIVERS



RX433/Asuper eterodyne and couplingcode ACG5055RX433/Asuper eterodyne and terminal boardcode ACG5056RX433/A 2CH super eterodyne, 2 channel and couplingcode ACG5051RX433/A 2CH super eterodyne, 2 channel and terminal boardcode ACG5051code ACG5052code ACG5052

RADIO TRANSMITTER SUN



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 BLINKER WITH IN-BUILT INTERMITTENT CARD

LATERAL SUPPORT	
SPARK ANTENNA 433	

code ACG7059 code ACG7042 code ACG5452

PUSH-BUTTON FLAT



Connection to motor Connection to control panel

code ACG2012 code ACG2013

MECHANICAL BOLT



For 2-leaf gates to latch closed gate to the ground.

code ACG5000



FIT SLIM



 PHOTOCELLS for the wall-installation
 code ACG8032

 PAIR OF COLUMNS FOR FIT SLIM
 code ACG8065

 FIT SLIM photocells have synchronism function in AC current and

ranges of 20 m. You can fit many couples close together thanks to the synchronising circuit.

Add the **SYNCRO TRANSMITTER TX SLIM SYNCRO** code ACG8029 for more than 2 photocells couples (up to 4).

BLOCK



KEY SELECTOR FOR WALL-INSTALLATION KEY SELECTOR TO BUILD-IN code ACG1053 code ACG1048

Wi-Fi DEVICES

MASTER WI-FI



RECEIVER CARD TO MANAGE WIRELESS SYSTEM with connector - 12+30V ac/dc code ACG6094 with terminal block - 12+30V ac/dc code ACG6099

TOUCH WI-FI



STRIP WITHOUT WIRES

code ACG3016

BLOCK WI-FI



KEY SELECTOR WITHOUT WIRES

code ACG6098

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Nova wi-Fi



PHOTOCELLS WITHOUT WIRES PAIR OF COLUMS NOVA code ACG8037 code ACG8039

SPARK Wi-Fi



BLINKER WITHOUT WIRES LATERAL SUPPORT code ACG7064 code ACG7042

Discover the only wireless automation devices at www.ribind.it.

KING - KING L



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 · Articulo totalmente proyectado y producido en Italia

Codice	Denominazione Particolare	Codice	Denominazione Particolare	Codice	Denominazione Particolare
Codice ACG8089 BA01019 BA10052 BA10065 BA10066 BA10102 CAL1160 CAL1162 CCA1294 CCA1319 CCA1328 CCA1355 CCA1370	Denominazione Particolare Gruppo Fermo meccanico di chiusura OPZIONALE Serie accessori per cilindro KING Gruppo Chiocciola serie KING Gruppo semig. sup. KING completo Gruppo semig. sup. KING completo Conf. accessori connettore, pressacavo, cap. coprirondella, rondella cap. Semiguscio inferiore KING Semiguscio inferiore KING Semiguscio inferiore KING Semiguscio inferiore KING Forcella Posteriore serie KING Piatto colonna regolabile serie KING L Piatto attacco cancello serie KING L Attacco cancello serie KING L Attacco a colonna (2 pezzi) serie KING Piastra attacco colonna serie KING L	Codice CME9130 CME9785 CME9868 CMO128868 CMO1241 CMO1263 CMO1264 CPL1087 CPL1157 CPL1161 CR562042R CTC1004 CTC11008 CTC1109 CTC1120 CTC1123 CTC1214 CTC1258	Denominazione Particolare Vite madre KING Perno Sblocco serie KING Perno di traino serie KING Statore KING e KING L 230V/50Hz 1P H70 Rotore KING e KING L con albero Statore KING 120V/60Hz 1P H70 Statore KING 120V/60Hz Ingranaggio conico Tappo per fermo meccanico serie KING Ingranaggio conico Tappo per fermo meccanico serie KING Cuscinetto 6204/2RS Chiavetta 6 6 12 Chiavetta 6 6 30 Seeger E17 Seeger E20 Seeger E25 Spina cilindrica 8x32 Molla per sblocco serie KING	Codice DTB6X35 DTC55X50Z DTE10X20I DTE8X30I DTM10X40I	Denominazione Particolare Vite TCEI M6x35 zinc. Vite TCEI 6X30 Inox UNI5931 Vite TCEI 6X30 Inox UNI5739 Vite TE 8X30 Inox UNI5739 Vite TE 10X40 Inox UNI 5737
CCM6005ZZ CCM6202ZZ	Cuscinetto motore 6005ZZ Cuscinetto motore 6202ZZ	CTC1259 CTC1307	Molla trazione coperchio serie KING Anello di tenuta OR2037		
CEL1425 CEL1426 CME1299 CME2042 CME2041 CME9129	Condensatore 10µH 450V x serie 230V/50 Condensatore 35µF 450V x serie 120V/60 Perno per ingranaggio serie KING Corona elicoidale sblocco sx Corona elicoidale dx serie KING Vite madre KING L	CVA1176 CVA1325 DDD10MAI DRL10X20I DRL10X30I DRL12X24Z	Cilindretto per serratura serie KING Dado Autob. M10 Alto Inox Rondella Piana 10X20 Inox Rondella Piana 10X30 Inox Rondella Piana 12X24		

COMPANY WITH QUALITY MANAGEMENT SYSTEM CERTIFIED BY DNV = ISO 9001:2008 =



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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 - <u>service@automaticsolutions.com.au</u>

- 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 SUCCESFUL 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 - <u>http://automaticsolutions.com.au/page/warranty.php</u>