

# LINEAR GATE OPERATOR **ARM2000BI** **VECTI / -F**

max. **3m**

DC MOTOR  
230 V MOTOR

Opening  
time from  
12 to 16 s



## **650ARM2000BI**

Irreversible DC electromechanical covered screw gate operator with encoder. Max. gate leaf 3 m.

## **650VECTI**

Irreversible 230 V electromechanical covered screw gate operator, 1400 rpm. Max. gate leaf 3 m.

## **650VECTI-F**

Irreversible 230 V electromechanical covered screw gate operator 1400 rpm, with opening electrical limit switch. Max. gate leaf 3 m.



**Accessories for  
ARM2000/VECTI  
series**  
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**Further accessories:**  
Transmitters page 238  
Photocells page 243  
Flashing lights  
page 246



MADE IN ITALY

ARM2000BI

## FEATURES:

- residential/apartment building use
- for gates leaves up to 3 m
- covered screw gate operator
- brackets to be welded, included
- adjustable mounting brackets (optional)
- bronze lead nut for strength and silent operation
- electrical connections are easier thanks to the larger upper space
- manual release with key lock
- quick and easy installation

## 18 V PROS:

- low voltage DC gate operator
- auto-learning of the gate stroke through optical encoder
- obstacle detection and crush prevention
- in accordance with EN 12453 standards
- works even during power outage thanks to the optional backup battery
- fast operating speed
- soft start and soft stop
- intensive use, ideal for use on apartment buildings and public entrances

## 230 V PROS:

- 230 V gate operator
- built-in capacitor
- high torque and power



### SILENCE OF MOVEMENT

The steel towing fork and the bronze nut ensure absolute silence during movement.



### EASY INSTALLATION

Thanks to the connections from above, it is more convenient and faster to install and wire.



### PLUNGE ROUNDED TOOTHING

The special plunge rounded tooting guarantees a greater bearing surface and therefore less wear and longer life.

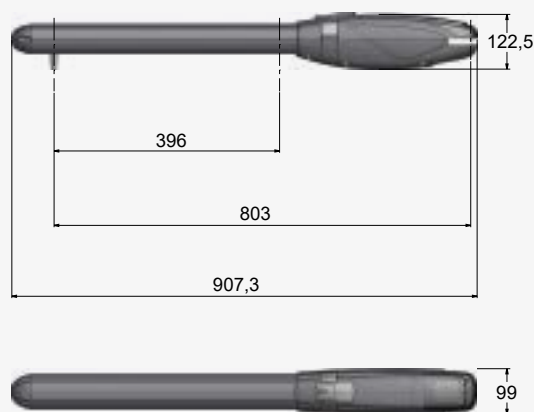


### MANUAL RELEASE

The manual release device is simple and intuitive and is protected by a unique coded key that can also be used for the external key selector.

## TECHNICAL DRAWINGS

Technical features	ARM2000BI	VECTI/-F
Power supply	230 V AC (50-60 Hz)	230 V AC (50 - 60 Hz)
Motor power supply	18 V DC	230 V AC
Open circuit voltage	1,1 A	1,5 A
Power rating	120 W	350 W
Opening time 90°	12 s*	16 s*
Duty cycle	100 %	36 %
Operating temperature	-20° C ÷ +55° C	-20° C ÷ +55° C
Motor thermal protection	-	160° C
Degree of protection IP	IP 44	IP 44
Stroke length	396 mm	396 mm
Control unit to match	D749MA	D770M



\* Varies according to the installation geometries



# KIT

max.  
**3+3m**

**DC  
MOTOR**



## KARM2000BIL

Complete double arm automation kit for gates up to 3 + 3 m, with two **650ARM2000BI** gate operators



## KARM2000BIL2

Complete double arm automation kit for gates up to 3 + 3 m, with two **650ARM2000BI** gate operators

### Accessories included in the kit:



**900VLED** Low voltage 12-18-24 Volt white led flashing light



**750D749MA** Electronic control unit for one or two DC gate operators with encoder, complete with 433,92 MHz rolling code radio receiver, battery charger, transformer and enclosure



**300T-KEY + LED TSL** Die-cast aluminium key switch + LED courtesy light for T-KEY



**900OPTIC** Set of infrared safety photocells, 12/24 V, surface mount, beam alignment adjustable up to 15°, up to 20 m range



**S-ARM0000208** Rear fixing bracket to be welded

+



**S-ARM0000223** Front fixing bracket to be welded, with bushing



**250K-SLIMRP** Two-channel transmitter, rolling code technology, 433,92 MHz



**C-CRT** Warning signal

### Accessories included in the kit:



**900VLED** Low voltage 12-18-24 Volt white led flashing light



**750D749MA** Electronic control unit for one or two DC gate operators with encoder, complete with 433,92 MHz rolling code radio receiver, battery charger, transformer and enclosure



**900OPTIC** Set of infrared safety photocells, 12/24 V, surface mount, beam alignment adjustable up to 15°, up to 20 m range



**S-ARM0000208** Rear fixing bracket to be welded

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**S-ARM0000223** Front fixing bracket to be welded, with bushing



**250K-SLIMRP** Two-channel transmitter, rolling code technology, 433,92 MHz



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**C-CRT** Warning signal

# ACCESSORIES

## COMMON ACCESSORIES



**650ARMKITSTF**  
Multi-position adjustable bracket (for one operator)



**650ARMKITSTI**  
Tilting bracket for sloping gates (1 pcs)



**650ARMKITFCR**  
Adjustable mechanical stoppers (2 pcs)



**900OPTIC**  
Set of infrared safety photocells, 12/24 V, surface mount, beam alignment adjustable up to 15°, up to 20 m range



**700BAP2**  
Gate stopper wall/floor mount



**650ESV1-2**  
Vertical electric lock recommended for leaves longer than 3 m (1=LEFT - 2=RIGHT)



**900TOWERF**  
Photocell standard mounting post, painted aluminium, 49 cm, with removable cover for easy installation and photocell adjustment



**700BAP1**  
Gate stopper for light leaves



**650CVS**  
Curved manual lock



**900PIVOTL**  
Set of two adjustable photocells with temporary and fixed courtesy light



**750CUP**  
Control unit enclosure protective lid



**250SM126**  
Memory card for 126 radio codes



**250T-WIFI**  
Device for Wi-Fi connection 2,4 GHz to allow the smartphone to remotely control and program the control units via TauApp



**250T-CONNECT**  
Ethernet + Wi-Fi device - to enable through Tau Open application, the use of the smartphone remotely, to open/close and check the status of the gate



**750COL**  
Control unit mounting post

## 18/24 VOLT ACCESSORIES



**750D749MA**  
Electronic control unit for one or two DC gate operators with encoder, complete with 433,92 MHz rolling code radio receiver, battery charger, transformer and enclosure



**750D749MA-R**  
Electronic control unit for 1-2 DC fast operators with encoder, complete with 433,92 MHz rolling code radio receiver, battery charger, transformer and enclosure




**200BATT**  
12 Volt Battery, 7,2 Ah with cable



**K-030KITKB20**  
Battery cables kit (20 pcs)



**M-030000CC50**  
Multicore cable (2 x 2.5 sq.mm + 3 x 0.5 sq.mm)

 Use only M-030000CC50 cable or equivalent

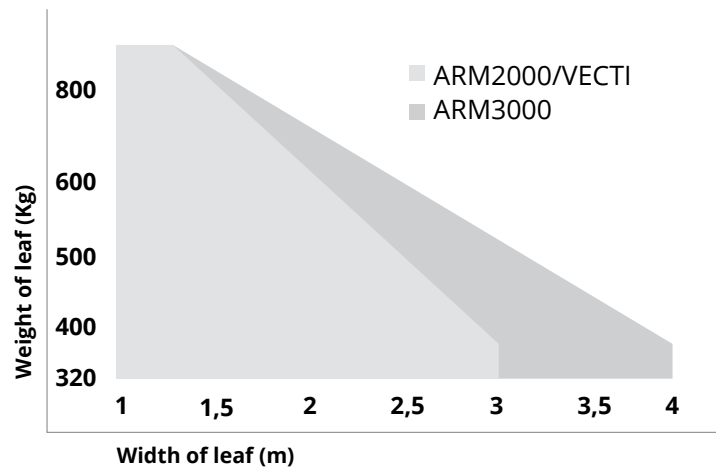
## 230 VOLT ACCESSORIES



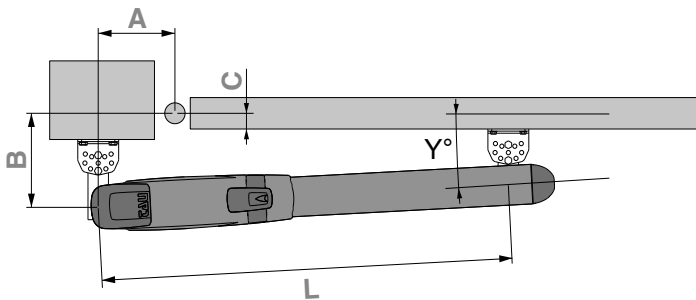
**750D770M**  
Electronic control unit for one or two 230 V gate operators with soft-stop and built-in 433,92 MHz rolling code radio receiver, complete with enclosure

## LIMIT TO USE\*

If the leaves are closed or less than 70% open, and the gate is installed in windy areas, the indicated lengths must be reduced by 30%.



## INSTALLATION SIZES (MM)\*



\* Follow the instructions for the installation

NB: In order to get the best performances, the operators have to be installed with A and B values as high as possible. To work correctly, the angle formed by the actuator and the gate (See the picture above for Y° value) must be > 2° (ARM2000/VECTI) both with the gate completely closed and completely open.

Model	Leaf opening	A	B	C	L
VECTI/-F ARM2000BI	90°	Min. 145	from 150 to 190	20	800
		Max. 175	150	20	800
	95°	Min. 150	from 150 to 185	20	800
		Max. 170	from 150 to 155	20	800
	100°	Min. 165	from 150 to 155	20	800
		Max. 170	150	20	800
<b>Recommended</b>	<b>100°</b>	<b>165</b>	<b>155</b>	<b>20</b>	<b>800</b>

Model	Leaf opening	A	B	C	L	
ARM3000BI	90°	Min. 150	from 160 to 235	20	910	
		Max. 190	from 160 to 185	20	910	
	95°	Min. 165	from 160 to 215	20	910	
		Max. 200	from 160 to 165	20	910	
	100°	Min. 180	from 160 to 180	20	910	
		Max. 200	from 160 to 165	20	910	
<b>Recommended</b>	<b>90°</b>	<b>175</b>	<b>195</b>	<b>20</b>	<b>910</b>	
ARM3000IFC	90°	Min. 150	from 160 to 235	20	890	
		Max. 190	from 160 to 185	20	890	
	95°	Min. 165	from 160 to 215	20	890	
		Max. 200	from 160 to 165	20	890	
	<b>Recommended</b>	<b>90°</b>	<b>175</b>	<b>195</b>	<b>20</b>	<b>890</b>

## Use and maintenance manuals



ARM2000



ARM3000



D749MA-R



D749MA



D770M