

Catalogue 2012

COMPANY

Leb Electronics was established in 1999 after a long experience, gained in the electronic sector. The firm specializes in development, designing and production of electronic devices **destined mainly to the automations of gates.**

Currently Leb Electronics is an **important supplier of electronic equipment for many Italian firms**, distinguishing itself for the innovation and reliability of the products.

The consolidation in the LEB's staff of experts in industrial mechanics, has allowed, subsequently, the **development of electro-mechanical operators containing innovative technical solutions that allows easy installations and reliability of operation.** Since 2005, Leb Electronics can offer a complete range of operators able to satisfy the main demands of the market.

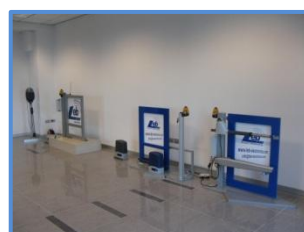
Currently the company is composed **by young and specialized staff**, with a complete and specific knowledge in its operational field. The distributive network is organized with Italian retailers and **importers in most important countries.**



A **large stock of articles** allows to process orders of customers quickly.

Leb Electronics always provides a **pre and post-sale technical support.** Besides, importers can benefit of technical trainings organized in Italy or, in case, near their headquarters.

The Company Mission is to produce and supply the customers with products containing **state-of-the-art electronics matching to modern, strong and reliable electro-mechanical operators**, and, at the same time, keeping an **excellent quality/price ratio.** User-friendly products on every aspect: **quality, easy installation, reliability, service and price.**



The excellent features of its products have allowed Leb Electronics to become a supplier of Companies operating in the DIY Market. Every year **more and more customers start to work with Leb Electronics** with mutual satisfaction.

INDEX

GENERAL INDEX



Sliding Gate Control Boards	Page 4
Swing Gate Control Boards	Page 5
Universal Control Boards	Page 6
Control Board 380 V Sliding Gate	Page 7
Control Boards 230 V Tubular/Rolling Shutter	Page 7



Remote controls	Page 8
------------------------	---------------



Radio Receivers	Page 9
------------------------	---------------



Accessories and security devices	Page 10
---	----------------



Sliding Gate Operators BOOST	Page 12
-------------------------------------	----------------



Swing Gate Operators TINY	Page 14
----------------------------------	----------------



Swing Gate Operators ARROW	Page 16
-----------------------------------	----------------



Articulated Swing Gate Operators TWIST	Page 18
---	----------------



Swing gate Underground Operators STONE	Page 20
---	----------------



Sectional Door Operators SPEEDY	Page 22
--	----------------

Table of Features of Control Boards	Page 24
Table of Compatibility Rx/Tx	Page 26
Where We Are	Page 28
Sales Conditions	Page 29

Control Boards 230 V

SLIDING GATE



Box included

CTR18 – 230Vac – 1 sliding gate motor or up-and-over garage leaf

- 32VA electric transformer
- Closure after crossing photocells
- Working times adjustable by trimmer
- Plug-in radio receiver can be connected by Molex

Card suitable for working in very cold weather conditions



Rx on board - Box included

CTR44 – 230Vac - 1 sliding gate motor

- Working times adjustable digitally
- Pedestrian opening by remote control
- Closure after crossing photocells
- Small dimensions



Rx on board - Box included

CTR31 – 230Vac – 1 sliding gate motor or up-and-over garage leaf

- Slow-down feature
- Working times adjustable digitally
- Pedestrian opening and courtesy light also by remote control
- Open gate indicator light
- Separated inputs for Opening and Closing

Control Board 12/24 V

For a complete list of control boards features, please refer to page 24



Rx on board - Box and trafo 100 VA included

CTR58 – 12/24Vdc – 1 sliding gate motors

- Slow-down feature
- Working times adjustable digitally
- Automatic programming procedure (just 1 push)
- Amperometric obstacle sensor

For a complete list of control boards features, please refer to page 24

Control Boards 230 V

SWING GATE



Box included

CTR17/S – 230Vac - 2 swing gate motors

- 32VA electric transformer
- Electro-lock control
- Working times adjustable by trimmer
- Plug-in radio receiver can be joined by Molex

Card suitable for working in very cold weather conditions



Rx on board - Box included

CTR32 – 230Vac - 2 swing gate motors

- Slow-down feature
- Working times adjustable digitally
- Pedestrian opening and courtesy light also by remote control
- Open gate indicator light
- Electro-lock control

Control Board 12/24 V

For a complete list of control boards features, please refer to page 24



Rx on board - Box and trafo 100 VA included

CTR57 – 12/24Vdc – 2 swing gate motors

- Slow-down function
- Working times adjustable digitally
- Automatic programming procedure (just 1 push)
- Amperometric obstacle sensor

Boxes

For a complete list of control boards features, please refer to page 24



IOS2 – Box for Control Board 230 V – RSK4/RPSK4

- Hinged lid box

Standard with Control Board



SCT6 – Box for Control Board 12/24 V

- Room for back-up battery

Standard with Control Board

Control Boards 230 V

UNIVERSAL



Box included

CTR19 – 230Vac – Universal *(Swing and Sliding gate, Garage leaf)*

- 32VA electric transformer
- Controlling up to 2 leaves with 4 electric limit switches
- Working times adjustable by trimmer
- Plug-in radio receiver can be joined by Molex

Card suitable for working in very cold weather conditions



Rx on board - Box included

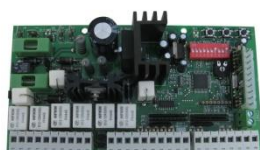
CTR54 – 230Vac – Universal *(Swing and Sliding gate, Garage leaf)*

- Obstacle sensing without encoder (amperometric sensor)
- Display on board
- Slow-down feature
- Working times adjustable digitally
- Controlling up to 2 leaves with 4 electric limit switches

For a complete list of control boards features, please refer to page 24

Control Board 12/24 V

UNIVERSAL



Rx on board - Box and trafo 100 VA included

CTR50 – 12/24Vdc – Universal *(Swing and Sliding gate, Garage door, Tubular)*

- Slow-down feature
- Working times adjustable digitally
- Automatic programming procedure (just 1 push)
- Amperometric obstacle sensor
- Controlling up to 2 leaves with 4 electric limit switches

For a complete list of control boards features, please refer to page 24

Control Board 380 V

SLIDING GATE



Rx on board - Boxes included

AT380/C (AT380 + CTR44) – 380Vac sliding gate

- Controlling 1 motor three-phase 380Vac
- Working times adjustable digitally
- Closure after crossing photocells
- Pedestrian opening by remote control
- Adjustable over-current device for electric motor

For a complete list of control boards features, please refer to page 24

Control Boards 230 V

TUBULAR/ROLLING SHUTTER



Rx on board - Box included

CTR29 – 230Vac – For Tubular motor

- Working times adjustable digitally
- Separated inputs for Opening and Closing
- Possibility to operate in dead man's control mode



Rx on board - Box included

CTR30 – 230Vac – For Rolling Shutter motor

- Working times adjustable digitally
- Separated inputs for Opening and Closing
- Blinker and courtesy light outputs
- Safety device input
- Plug-in torque adjustment card can be joined by Molex



REG – Torque adjustment card

- Optional card for CTR30

For a complete list of control boards features, please refer to page 24

Remote controls



TSAW4N – Fixed code programmable by dip-switch

- 1024 code combinations
- Operating frequency 433.92 MHz
- 4 Channels
- Battery GP27A



TCP3 – Fixed code duplicator

- Fix code copying function
- Operating frequency 433.92 MHz
- 3 Channels (2 keys)
- Lithium cell CR2016 x 2 long life



DTR4 – Rolling Code

- Serialized code with 4,3 billion combinations
- Operating frequency 433.92 MHz
- 4 Channels
- Batteries lithium cell CR2016 x 2 long life



TRK4 – Rolling Code

- Serialized code with 4,3 billion combinations
- Operating frequency 433.92 MHz
- Battery GP27A
- 4 Channels



Secret Key Ready

SMARTY Rolling code or fixed code/cloner

- Serialized code with 4,3 billion combinations
- Switchable into rolling code or fixed code
- Fixed code copying function 64 bit
- Programmable with Secret Key System
- 4 Channels
- Batteries lithium cell CR2016 x 2 long life

SMARTY433 – 433 MHz

SMARTY868 – 433 MHz



Secret Key Ready

L0428R – Programmer for SMARTY (Secret Key System)

- Manage remotes and protect a specific receiver
- Compatible also with old TPW4 and TPK4 remotes
- Fixed code copying function
- Serial programming mode

For Rx/Tx compatibility list please refer to page 26

Radio Receivers



RWAU2 - 433,92 MHz - Plug-in radio receiver

- 2 Channels
- 2 operation mode (monostable and bistable)
- Compatible with all Leb's remote controls, TRP1 and RTA2

RPAU2 - 868,35 MHz - Plug-in radio receiver

- 2 Channels
- 2 operation mode (monostable and bistable)
- Compatible with SMARTY868



RKAU2 - 433,92 MHz - Radio receiver with terminal board

- 2 Channels
- 2 operation mode (monostable and bistable)
- Compatible with all Leb's remote controls, TRP1 and RTA2

RPAU2K - 868,35 MHz - Radio receiver with terminal board

- 2 Channels
- 2 operation mode (monostable and bistable)
- Compatible with SMARTY868



RWAU2SA - 433,92 MHz - Stand-alone radio receiver

- 2 Channels
- 2 operation mode (monostable and bistable)
- Compatible with all Leb's remote controls, TRP1 and RTA2

RPAU2SA - 868,35 MHz - Stand-alone radio receiver

- 2 Channels
- 2 operation mode (monostable and bistable)
- Compatible with SMARTY868



Secret Key Ready

RSK4 - 433,92 MHz - Rolling code receiver with terminal board

- 4 Channels, up to 1000 storable codes
- Secret Key System ready
- Wiegand interface for access control
- Compatible with SMARTY433, TRP1 and RTA2

RPSK4 - 868,35 MHz - Rolling code receiver with terminal board

- 4 Channels, up to 1000 storable codes
- Secret Key System ready
- Wiegand interface for access control
- Compatible with SMARTY868

1 back-up memory
card RSK4M
already on board



RSK4M - Back-up memory card



IOS2 - Box for RSK4/RPSK4

For Rx/Tx compatibility list please refer to page 26

Accessories



ANSE – Tuned antenna 433,92/868,36 MHz

- Helicoidal antenna for improved reception
- Supplied with 4 m coaxial cable RG58



FTE – Outdoor photocells 12Vdc/24Vac

- 15 m range
- Modulated infrared rays device
- Provided with focalizing lens
- Low current consumption



LMF2 – Pair of photocells external use 12Vdc/24Vac

- 15 m range
- Provided with focalizing lens
- Synchronism function with 24Vac power supply



CLE – Aluminium column for accessories

CLE5 50 cm high

CLE10 100 cm high

Price for each piece



SELE – Outdoor Key selector

- Base in aluminium
- Provided with 2 keys
- Double control

TRC2 – Key

- Blank key for SELE



Secret Key Ready

Wireless keyboard

- Operation with fixed or rolling code (selectable)
- Secret Key System Ready
- Night light and acoustic beep
- Protection degree IP64
- Lithium cell CR2016 x 2 long life

RTA2 – 433,92 MHz

RTA8 – 868,35 MHz

Accessories



TRP1 – Radio Transponder Rolling Code 433,92 MHz

- 12Vdc/24Vac power supply
- 5 transponder keys included
- Protection degree IP54

TRC1 – Transponder key



LP – Blinker

LP 24SL 24 Vac

LP 230SL 230 Vac



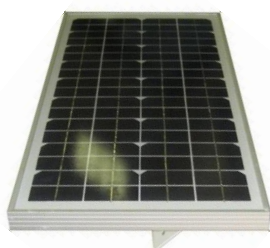
LMB1 – Blinker with built-in antenna

LMB1A/24 24 Vac

- Supplied with 4 m coaxial cable RG58

LMB1A/230 230 Vac

- Supplied with 4 m coaxial cable RG58



LMP20WB – Solar Panel 12-24 Vdc

- Current limit (battery protection)
- 20W power
- Equipped with 2 fixing brackets
- Voltage regulator included

BOOST Operators

SLIDING GATE



Irreversible operators for sliding gate BOOST

- Gearing completely made of solid steel in oil bath
- Fixing base plate included
- Unlocking lever very easy to use
- Magnetic limit switches
- Screws in stainless steel
- Equipped with control board and radio receiver
- Start-up power and slow-down function
- Electronic adjustment of the torque
- Pedestrian opening by remote control
- Automatic closing
- Separated inputs for Opening and Closing (only version 230V)

Version 24V

- Battery charger included
- Possibility to connect solar panel LMP20WB
- Obstacle sensing (current sensor)



MTC1 – Operator 24V for leaf up to 400 kg – (BOOST 4)

- Equipped with control board CTR50
- Radio receiver on board



MTC2 – Operator 230V for leaf up to 500 kg – (BOOST 5)

- Equipped with control board CTR31
- Radio receiver on board



MTC3 – Operator 230V for leaf up to 1000 kg – (BOOST 10)

- Equipped with control board CTR31 and receiver on board
- Ventilated for heavy duty



Fixing base plate for all operators BOOST

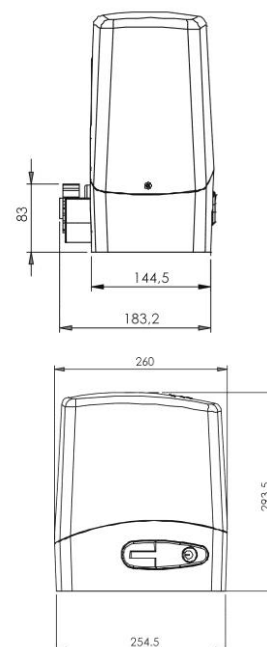
- 4 mm thickness
- Zinc-coated steel

Standard with Boost

BOOST Operators

SLIDING GATE

Technical Features		MTC1	MTC2	MTC3
Max leaf weight	kg	400	500	1000
Main power supply		230 V-50/60 HZ		
Motor power supply		24 Vdc	230 Vac	230 Vac
Mechanical motor power	W	60	90	120
Current absorption	A	5	1	1,2
Capacitor	µF	-	10	12
Thermic protection	°C	-	150	
Motor revolution	rpm	1400		
Operating speed	m/min	10		
Max torque	Nm	14	24	42
Rack module	M	4		
Operating temperature	°C	-20 ÷ +60		
Protection degree	IP	54		
Duty	%	70	30	70
Oil		Gearing Oil		
Limit switch		magnetic		
Operator weight	kg	9	9,5	11

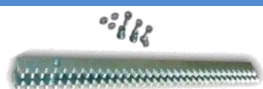


Nylon rack module 4

- Solid steel core 10 x10 mm inside nylon structure
- Screws and washers included
- Suitable for leaves up to 1000 kg

CRM 6 – 1 m bar with 6 fixing brackets

CRM 1 – 33 cm bar with 2 fixing brackets



CRM 5 – metal rack module 4

- 1 m bar, 12 x 30 mm with 3 fixing brackets



Kit for sliding gate

- BOOST operator equipped with control board (CTR31 o CTR50)
- Photocells FTE
- 2 remotes SMARTY
- Antenna ANSE
- Blinker (LP24SL or LP230SL)

KOS2 – BOOST 4 (24 V) for leaf up to 400 kg

KOS1 – BOOST 5 for leaf up to 500 kg

KOS3 - BOOST 10 for leaf up to 1000 kg

TINY Operators

SWING GATE



Irreversible operators for swing gate TINY

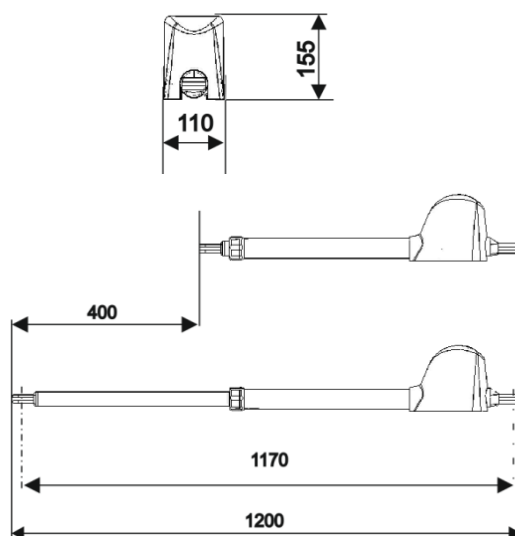
- Gearing completely made of solid steel and bronze
- Stainless steel shaft and painted zinc-coated steel pipe
- Unlocking system with Allen wrench included
- Adjustable and non-welding rear and front bracket included



TINY24 – Operator 24V for leaf up to 3 m

TINY230 – Operator 230V for leaf up to 3 m

Technical Features		TINY24	TINY230
Max leaf length	m	3	3
Max leaf weight	kg	250	300
Main power supply		230 V-50/60 HZ	
Motor power supply		24 Vdc	230 Vac
Mechanical motor power	W	30	40
Current absorption	A	2,5	0,8
Capacitor	μF	-	6
Thermic protection	$^{\circ}C$	-	150
Max thrust	N	1500	2200
Operating temperature	$^{\circ}C$	$-20 \div +60$	
Protection degree	IP	54	
Duty	%	70	30
Operator weight	kg	3,5	4



Kit for swing gate TINY



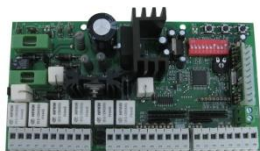
- 2 TINY operators
- Control board CTR50 for 24V or CTR32 for 230V
- Photocell FTE
- 2 remotes SMARTY
- Antenna ANSE
- Blinker (LP24SL o LP230SL)

KPT6 – TINY 24 V for leaf up to 3 m

KPT7 – TINY 230 V for leaf up to 3 m

Accessories

SWING GATE



Rx on board - Box and trafo 100 VA included

CTR50 – 12/24Vdc – Universal *(Swing and Sliding gate, Garage door, Tubular)*

- Slow-down feature
- Working times adjustable digitally
- Automatic programming procedure (just 1 push)
- Amperometric obstacle sensor
- Controlling up to 2 leaves with 4 electric limit switches



Rx on board – Box included

CTR32 – 230Vac - 2 swing gate motors

- Slow-down function
- Working times adjustable digitally
- Pedestrian opening and courtesy light also by remote control
- Open gate indicator light
- Electro-lock control



FTE – Outdoor photocells 12Vdc/24Vac

- 15 m range
- Modulated infrared rays device
- Provided with focalizing lens
- Low current consumption



ANSE – Tuned antenna 433,92/868,36 MHz

- Helicoidal antenna for improved reception
Supplied with 4 m coaxial cable RG58



LP – Blinker

LP 24SL 24 Vac

LP 230SL 230 Vac

Irreversible operators for swing gate ARROW

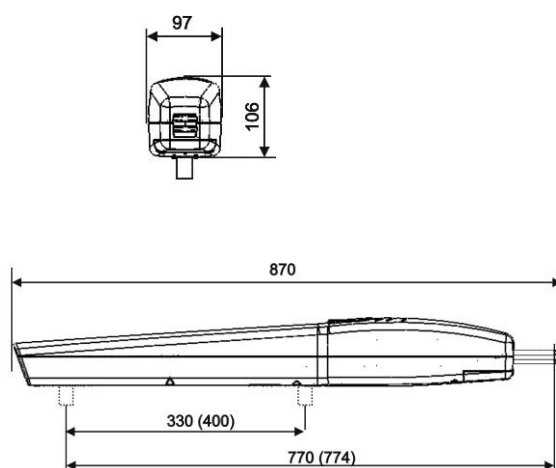


- Die-cast aluminium body and epoxy powder coating
- Gearing completely made of solid steel and bronze
- Protected and easy unlocking system with Allen wrench included
- Built-in capacitor
- 2 Mechanical stoppers (open and close) included
- Adjustable and non-welding rear and front bracket included

AL400DC – ARROW 24V for leaf up to 4 m

AL400AC – ARROW 230V for leaf up to 4 m

Caratteristiche tecniche		ARROW 24	ARROW 230
Max leaf length	m	4	4
Max leaf weight	kg	250	300
Main power supply		230V-50/60HZ	
Motor power supply		24 Vdc	230 Vac
Mechanical motor power	W	40	40
Current absorption	A	3,2	1
Capacitor	µF	-	6
Thermic protection	°C	-	150
Max thrust	N	1800	2500
Operating temperature	°C	-20 ÷ +60	
Protection degree	IP	54	
Duty	%	70	30
Operator weight	kg	6	6,5



ARROW Operators

SWING GATE



Kit for swing gate ARROW

- 2 ARROW operators
- Control board CTR50 for 24V or CTR32 for 230V
- Photocells FTE
- 2 remotes SMARTY
- Antenna ANSE
- Blinker (LP24SL o LP230SL)

KL02 – ARROW 24 V for leaf up to 4 m

KL01 – ARROW 230 V for leaf up to 4 m



2 Mechanical stoppers

Standard with ARROW

Accessories



Rx on board - Box and trafo 100 VA included

CTR50 – 12/24Vdc – Universal *(Swing and Sliding gate, Garage door, Tubular)*

- Slow-down feature
- Working times adjustable digitally
- Automatic programming procedure (just 1 push)
- Amperometric obstacle sensor
- Controlling up to 2 leaves with 4 electric limit switches



Rx on board – Box included

CTR32 – 230Vac - 2 swing gate motors

- Slow-down function
- Working times adjustable digitally
- Pedestrian opening and courtesy light also by remote control
- Open gate indicator light
- Electro-lock control



FTE – Outdoor photocells 12Vdc/24Vac

- 15 m range
- Modulated infrared rays device
- Provided with focalizing lens
- Low current consumption

TWIST Operators

ARTICULATED ARM SWING GATE



Irreversible operator 24V articulated arm TWIST

- Gearing completely made of solid steel and bronze
- Die-cast aluminium base and epoxy powder coating
- Aluminium articulated arm with mechanical stopper
- Unlocking system with Allen wrench included
- Opening up to 110°
- Built-in CTR50 control board with room for back-up batteries
- Suitable in case of large and deep pillars

TWIST24CS – TWIST with control board CTR50

TWIST24S – TWIST without control board

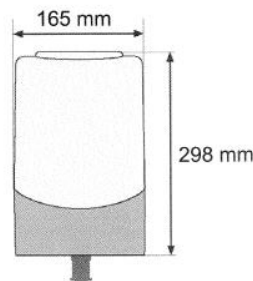
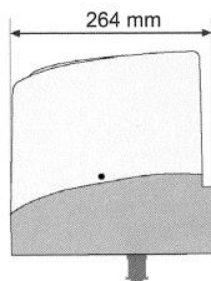
Operator equipped
with zinc-coated steel
articulated arm



TWIST24C – TWIST with control board CTR50

TWIST24 – TWIST without control board

Technical Features		TWIST24
Max leaf length	m	2,5
Max leaf weight	kg	300
Main power supply		230 V-50/60 HZ
Motor power supply		24 Vdc
Mechanical motor power	W	30
Current absorption	A	2,5
Capacitor	µF	-
Thermic protection	°C	-
Max torque	Nm	250
Operating temperature	°C	-20 ÷ +60
Protection degree	IP	54
Duty	%	70
Operator weight	kg	5,5



Kit for swing gate with articulated arm TWIST

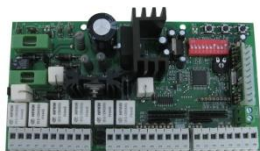
- 2 TWIST operators
- Control board CTR50
- Photocells FTE
- 2 remotes SMARTY
- Antenna ANSE
- Blinker LP24SL

KA02S – With aluminium articulated arm and stopper

KA02 – With zinc-coated articulated arm

ARTICULATED ARM SWING GATE

Accessories



Rx on board - Box and trafo 100 VA included

CTR50 – 12/24Vdc – Universal *(Swing and Sliding gate, Garage door, Tubular)*

- Slow-down feature
- Working times adjustable digitally
- Automatic programming procedure (just 1 push)
- Amperometric obstacle sensor
- Controlling up to 2 leaves with 4 electric limit switches



FTE – Outdoor photocells 12Vdc/24Vac

- 15 m range
- Modulated infrared rays device
- Provided with focalizing lens
- Low current consumption



SELE – Outdoor Key selector

- Base in aluminium
- Provided with 2 keys
- Double control

TRC2 – Key

- Blank key for SELE



ANSE – Tuned antenna 433,92/868,36 MHz

- Helicoidal antenna for improved reception
- Supplied with 4 m coaxial cable RG58



LP – Blinker

LP 24SL 24 Vac

- Supplied with 4 m coaxial cable RG58

LP 230SL 230 Vac

- Supplied with 4 m coaxial cable RG58

STONE Operators

UNDERGROUND SWING GATE



Irreversible underground swing gate operator STONE

- Foundation box made of zinc-coated steel
- Heavy duty lid and foundation with drainage holes
- Gearing completely made of steel and bronze
- Waterproof motor
- 2 internal mechanical stoppers on version 110°
- 2 internal electric limit switches on version 180°
- Unlocking system with broached lever



U024DC/MT – STONE 24V

U0230AC/MT – STONE 230V

Caratteristiche tecniche		STONE 24/110	STONE 230/110	STONE 24/180	STONE 230/180
Opening	°	110	110	180	180
Main power supply		230 V-50/60 HZ			
Motor power supply		24 Vdc	230 Vac	24 Vdc	230 Vac
Max leaf length	m	2,5			
Max leaf weight	kg	250	350	250	350
Mechanical motor power	W	60	90	60	90
Current absorption	A	5	1,2	5	1,2
Capacitor	µF	-	10	-	10
Thermic protection	°C	-	150	-	150
Max torque	Nm	270	330	270	330
Operating temperature	°C	-20 ÷ +60			
Protection degree	IP	67			
Duty	%	70	30	70	30
Operator weight	kg	15			



CAINT/110 – Foundation box for STONE 110°

- Equipped with transmission levers 110°, mechanical stoppers and unlocking system
- Zinc-coated steel with drainage holes

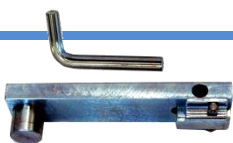
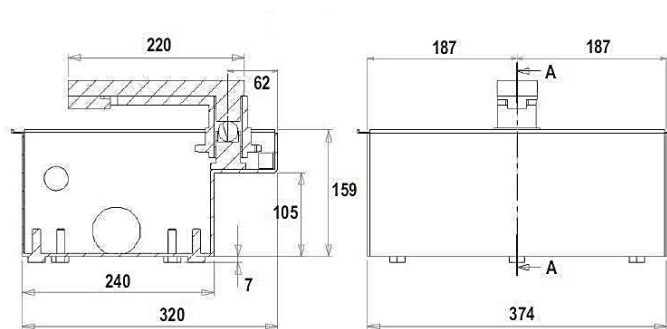
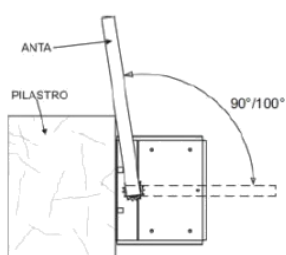
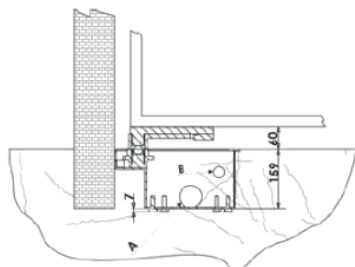


CAINT/180 – Foundation box for STONE 180°

- Equipped with chain transmission 180°, magnetic limit switches and unlocking system
- Zinc-coated steel with drainage holes

STONE Operators

UNDERGROUND SWING GATE



Unlocking system

Standard with foundation box

Kit underground operator STONE

- 2 STONE operators
- 2 Foundation boxes
- 2 Unlocking levers
- Control board
- Photocells FTE
- 2 remotes SMARTY
- Antenna ANSE
- Blinker (LP24SL o LP230SL)



KU03 – STONE 24V opening 110°

- With CTR50 control board

KU04 – STONE 230V opening 110°

- With CTR32 control board

KU02 – STONE 24V opening 180°

- With CTR50 control board

KU01 – STONE 230V opening 180°

- With CTR54 control board

SPEEDY Operators

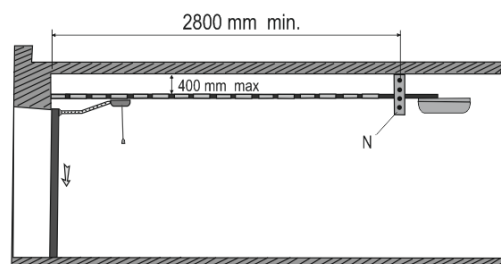
SECTIONAL AND GARGE DOORS

Sectional leaf operator 24 V SPEEDY

- Gearing made of bronze
- Supplied with 3 m guide and pre-assembled chain
- Guide made of aluminium pieces 1 m x 3
- Equipped with chain stretcher
- Provided with wall plugs and brackets for installation
- 1 remote control DTR4 included
- Control board CTR47 with built-in radio receiver
- Toroidal transformer
- Easy and automatic programming
- 2 magnetic limit switches
- Soft start and soft stop
- Obstacle detection
- Courtesy light control also by remote control



Technical features		SPEEDY 60	SPEEDY 80
Main power supply		230 V-50/60 HZ	
Motor power supply		24 Vdc	
Mechanical motor power	W	40	60
Current absorption	A	4	6,5
Max thrust	N	600	800
Max door height	mm	2700	
Speed	m/sec.	0, 1/0,2	
Operating temperature	°C	-20 ÷ +60	
Duty	%	70	
Operator weight	kg	8	9



SPD60 – Kit SPEEDY 24V sectional door 600N

- 3 m guide with pre-assembled chain
- 1 remote control SMARTY included
- Wall plugs and brackets for installation



SPD80 – Kit SPEEDY24V sectional leaf 800N

- 3 m guide with pre-assembled chain
- 1 remote control SMARTY included
- Wall plugs and brackets for installation

SECTIONAL AND GARGE DOORS

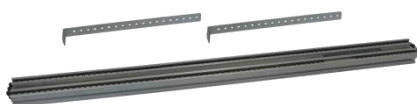
SPEEDY Operators



KBS1A – Adapter arm for up-and-over garage leaf



KFC1 - External release wire



GEK01 – 1 m additional guide with chain

Accessories



FTE – Outdoor photocells 12Vdc/24Vac

- 15 m range
- Modulated infrared rays device
- Provided with focalizing lens
- Low current consumption



SELE – Outdoor Key selector

- Base in aluminium
- Provided with 2 keys
- Double control

TRC2 – Key

- Blank key for SELE



RTA2 – Wireless keyboard

- Operation frequency 433.92 MHz
- Operation with fixed or rolling code (selectable)
- Night light
- Acoustic beep
- Protection degree IP64
- Lithium cell CR2016 x 2 long life

Table of features of control boards

Technical Features/Control Boards	CTR18	CTR44	CTR31	CTR58	CTR17	CTR32	CTR57
Motor power supply	230V	230V	230V	12/24V	230V	230V	12/24V
Opening system	Slide ⁴	Slide	Slide ⁴	Slide	Swing	Swing	Swing
Control of 1 or 2 motors	1	1	1	1	2	2	2
Radio receiver on board (Fix code &/or Rolling)		✓	✓	✓		✓	✓
Possibility to operate single leaf (for swing)					✓	✓	✓
Possib. 0 secs delay between leaves (for swing)					✓	✓	
Control of electric limit switches	✓	✓	✓	✓			
Time programming (mechanical stoppers)	✓	✓	✓	✓	✓	✓	✓
Control of encoder							
Obstacle detector (amperometric sensor)				✓			✓
Slow down feature			✓	✓		✓	✓
Pedestrian opening <u>R</u> adio or <u>M</u> anual		R	RM	R	M	RM	R
Separated inputs for Open and Close controls			✓				
Dedicated input emergency Stop control	✓	✓	✓		✓	✓	
Step by step mode	✓	✓	✓	✓	✓	✓	✓
Condominium mode	✓	✓	✓	✓	✓	✓	✓
Automatic closing (time)	✓	✓	✓	✓	✓	✓	✓
Closure after crossing the photocell	✓	✓					
Torque adjustment	✓	✓	✓	✓	✓	✓	✓
Maximum start-up power	✓	✓	✓	✓	✓	✓	✓
Safety rib input	✓		✓	✓	✓	✓	
Microprocessor auto-test on safety inputs							
Electric-lock input	✓		✓		✓	✓	
Kickback function for electric-lock					✓	✓	
Control of blinker (pre-flashing, flashing, etc.)	✓	✓	✓	✓	✓	✓	✓
Courtesy light	✓		✓		✓	✓	
Open gate light indicator						✓	
Inputs' state LED	✓		✓		✓	✓	
Display on board							
Built-in Battery charger				✓			✓
Opening control by clock	✓		✓	✓	✓	✓	✓
Possibility to program all the operation times							

⁴ Suitable also for up-and-over garage leaf

Table of features of control boards

Technical Features/Control Boards	CTR19	CTR54	CTR50	CTR29	CTR30	AT380 + CTR44	CTR47**
Motor power supply	230V	230V	12/24V	230V	230V	380V	24V
Opening system	Univ*	Univ*	Univ*	Tubol	Roll	Slide	Sectional
Control of 1 or 2 motors	2	2	2	1	1	1	1
Radio receiver on board (Fix code &/or Rolling)		✓	✓	✓	✓	✓	✓
Possibility to operate single leaf (for swing)	✓	✓	✓				
Possib. 0 secs delay between leaves (for swing)	✓	✓	✓				
Control of electric limit switches	✓ (4)	✓ (4)	✓ (4)			✓	✓
Time programming (mechanical stoppers)	✓	✓	✓	✓	✓	✓	
Control of encoder		✓	✓				
Obstacle detector (amperometric sensor)		✓	✓				✓
Slow down feature		✓	✓				✓ ¹
Pedestrian opening <u>R</u> adio or <u>M</u> anual	M	RM	RM			R	
Separated inputs for Open and Close controls		✓		✓	✓		
Dedicated input emergency Stop control	✓	✓	✓			✓	
Step by step mode	✓	✓	✓	✓	✓	✓	✓
Condominium mode	✓	✓	✓			✓	
Automatic closing (time)	✓	✓	✓		✓	✓	✓
Closure after crossing the photocell		✓				✓	
Torque adjustment	✓	✓			✓		
Maximum start-up power	✓	✓	✓				✓
Safety rib input	✓ ²	✓	✓		✓ ²		
Microprocessor auto-test on safety inputs		✓ ³	✓ ³				
Electric-lock input	✓	✓	✓				
Kickback function for electric-lock	✓	✓	✓				
Control of blinker (pre-flashing, flashing, etc.)	✓	✓ ³	✓		✓	✓	✓
Courtesy light		✓			✓		✓
Open gate light indicator		✓					
Inputs' state LED	✓	✓	✓				
Display on board		✓					
Built-in Battery charger			✓				
Opening control by clock	✓	✓	✓				
Possibility to program all the operation times		✓					

*Univ = Universal, control of any kind of opening

¹Also soft start

²Photocells must be excluded

³Excludible

**CTR47 Available only with SPEEDY operator

Table of Compatibility Tx/Rx Leb Electronics

				 100 codes storable RWAU2, RKAU2, RWAU2SA	 1000 codes storable
ARTICLES	FEATURES	433,92 MHz	Transmission Tx	<u>RX on board on CTR</u> (50 codes storable, far storing not available)	RSK4 (Rolling code only)
TSAW4N	Dip Switch		FIXED CODE	<ul style="list-style-type: none"> 1024 code combinations default 12 bit codification 1010101010 settable with dip switch 	
TCP3	Only Copier	 +  Cloned with TSAW4N	FIXED CODE	<ul style="list-style-type: none"> same characteristics as cloned TSAW4N auto power-off 	
DTR4	HCS301		ROLLING	<ul style="list-style-type: none"> serialized 4,3 billion code combinations 	
TRK4			ROLLING	<ul style="list-style-type: none"> serialized 4,3 billion code combinations far storing Rx*** auto power-off 	<ul style="list-style-type: none"> serialized 4,3 billion code combinations auto power-off
SMARTY 433	Universal		ROLLING OR FIXED CODE	<ul style="list-style-type: none"> Rolling or fixed code serialized 4,3 billion code (RC) copier 64 bit far storing Rx*** auto power-off 	<ul style="list-style-type: none"> Rolling or fixed code serialized 4,3 billion code (RC) copier 64 bit far storing Rx*** auto power-off
RTA2	Wireless		ROLLING OR FIXED CODE	<ul style="list-style-type: none"> default 20 (12 bit also possible) code to be entered manually in keyboard 1 to 5 digit 	<ul style="list-style-type: none"> code to be entered manually in keyboard 1 to 5 digit
TRP1	To be powered through mains		ROLLING	<ul style="list-style-type: none"> keys already serialized 	<ul style="list-style-type: none"> keys already serialized
ARTICLES		868,35 MHz	Transmission Tx	RPAU2, RPAU2K, RPAU2SA	RPSK4
TPK4	Universal		ROLLING OR FIXED CODE	<ul style="list-style-type: none"> Rolling or fixed code serialized 4,3 billion code (RC) copier 64 bit far storing Rx*** auto power-off 	<ul style="list-style-type: none"> Rolling or fixed code serialized 4,3 billion code (RC) copier 64 bit far storing Rx*** auto power-off
RTA8	Wireless		ROLLING OR FIXED CODE	<ul style="list-style-type: none"> default 20 (12 bit also possible) code to be entered manually in keyboard 1 to 5 digit 	<ul style="list-style-type: none"> code to be entered manually in keyboard 1 to 5 digit

***Far storing Rx makes possible to store new rolling code radio transmitters without manually operating on Rx, with a simple radio transmitter already stored

Secret Key System



SMARTY

SMARTY, beside its standard features, is a programmable remote to be used in order to implement Secret Key System.



L0428R

Hand device for programming SMARTY to be used in Secret Key System.



RSK4/RPSK4

Classic receiver for rolling code, can be switched for operating in Secret System mode.

What is Secret Key System of Leb electronics?

It is a total protection and managing system of any radio transmitter stored with access key in a specific receiver RSK4 (433,92 MHz) or RPSK4 (868,35 MHz). It is based on native Rolling Code transmission. In addition to standard working mode of Tx/Rx, it makes possible deleting, storing and replacing any code with our SMARTY remote, but only if previously authorized by installer or administrator. Moreover, it makes possible to store, with a PC and a dedicated included Software, codes directly to the receiver. Database back-up copy can be also stored on memory card RSK4M, already on board on receiver as a standard.

How does Secret Key System work?

Any radio transmitter SMARTY can be a rolling code or fixed code/copier remote, but inside there is also a highly technological electronic circuit programmable by L0428R, able to turn its transmission into "Secret Key" standard. Beside normal use, the remote can now transmit instructions to the specific receiver in order to modify previously stored codes or enter a new ones.

How many parts Secret Key System consist of?

It's an user-friendly and very easy system. It consists of

- ✓ Receiver RSK4(433,92 MHz) o RPSK4 (868,35 MHz),
- ✓ Radio transmitter SMARTY433 (433,92 MHz) or SMARTY868 (868,35 MHz)
- ✓ Portable programmer L0428R
- ✓ Software Secret Key of Leb electronics (optional and free of charge)

What are the advantages in using Secret Key System?

The system is very useful when in need of controlling a large number of remotes and codes. The installer can count on a database of codes and only himself has privileges for **programming the Rx**. All the authorised codes of transmitters can be stored in the Rx all together at once by PC. Beside, new radio transmitters can be stored, removed or changed without being on installation site. Moreover back-up copies of database can be stored away in case of failure or damage of Rx.

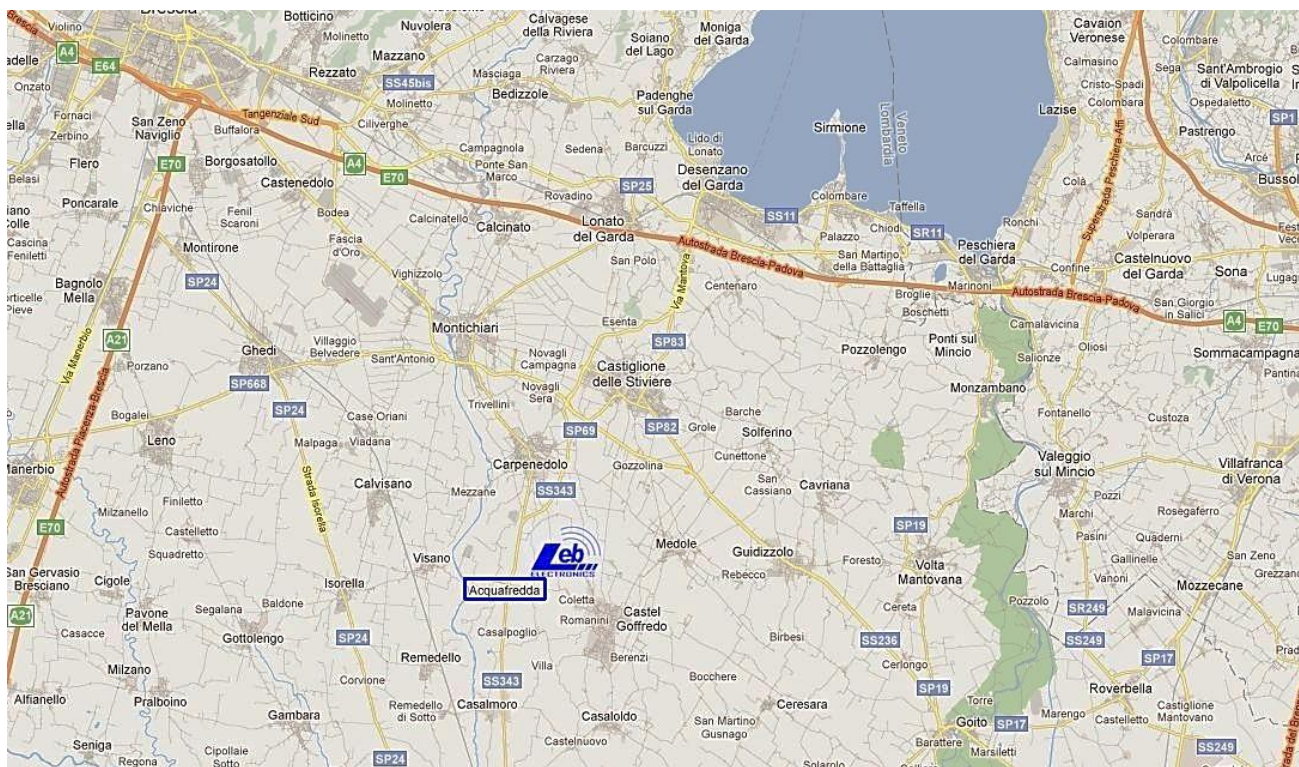
WHERE WE ARE

Leb Electronics headquarter is located in **Acquafredda (BS)**, **Via Caduti del Lavoro, 1 (Z.I.), CAP 25010**

GPS coordinates:

DMS 45°18'39,2" N 10°25'13,8" E

DDD 45,31099 10,42051



Coming from A4 highway, take the Desenzano exit and keep driving towards Asola/Parma up to getting to Acquafredda.

Coming from highway A21, take the Manerbio exit and follow Leno indication, once there keep following Gottolengo indication and once there keep driving to Acquafredda.



General Sales conditions

ARTICLE 1 WARRANTY

1.1. With exception of what expressly agreed each time between the parts, Leb Electronics guarantees the conformity of the supplied products and anything else explicitly agreed. Warranty due to defects is limited only to product defects due to materials or manufacturing defects that can be referred to Leb Electronics.

The warranty does not apply in case of:

- Malfunctions or damages related to transport;
- Malfunctions or damages caused by anomalies of the electrical mains or any incorrect use of the product;
- Tampering or damages caused by unauthorized personnel and/or due to use of non-genuine Leb Electronics articles and/or spare parts;
- Defects and/or damages caused by chemical agents and/or atmospheric phenomena (e.g. lightning strikes, etc.);
- Replacement of parts which are subjected to usagel wearing, as lamps, batteries, etc.
- Products without an identification plate.

This warranty shall expire in case any non-genuine Leb Electronics accessory is installed.

1.2 Warranty on Leb Electronics operators has a validity of 20 months beginning from the start-up date, when a suitable evidence of that is available, and in any case not longer than 24 months from the production date.

The warranty is subjected to an expressly written request to Leb Electronics to act according to the points here below indicated. No return of goods or debit notes will be accepted if not previously authorized by Leb Electronics. With this request, within a reasonable time and at its own will, Leb Electronics will either:

- a) supply the buyer with free of charge and ex-works products of the same quality and type of the faulty or non-standard ones; Leb Electronics can also ask the buyer to send back the faulty goods at its own expenses; these goods will become Leb Electronics' property.
- b) Repair at its own expenses the faulty products, or modify non-standard products. In this case, all transport costs will be at the buyer's expenses.
- c) Supply spare parts free of charge: all transport costs are at the buyer's expenses.

1.3 The warranty, as per this article, absorbs and replaces all legal warranties due to defects and differences and excludes any other Leb Electronics liabilities that could be originated by

the supplied products; in particular, the Buyer will not be able to claim any other further requests.

Leb Electronics shall not be responsible for any further claims once the warranty period has expired.

ARTICLE 2 CLAIMS

2.1 It is understood that, as applied by Italian Law nr. 21 June 1971, art. 1:

"Claims regarding quantity, weight, gross weight and colour, or claims regarding faults and defects in quality compliance which the Buyer could discover on delivery of the goods, shall be submitted by the Buyer within 7 days from the delivery, under penalty of nullity of the warranty".

ARTICLE 3 DELIVERY

3.1 Any liability from damages ensuing from total or partial delayed or failed delivery, shall be excluded.

ARTICLE 4 PAYMENT

4.1 Any delayed or irregular payment shall entitle Leb Electronics to cancel any ongoing agreement, including arrangements not related to the current issue, as well as entitling Leb Electronics to claim damages, if any.

4.2 Leb Electronics shall however have the right to claim overdue interests at bank rate in Italy increased by 5 points. In case of failed payment Leb Electronics shall have the right to cancel all warranties on goods, regarding the Customer as insolvent.

4.3 The Buyer shall be bound to full payment, even when claims or disputes are under way.

ALL INFORMATION HAVE BEEN WRITTEN AND CHECKED WITH THE GREATEST CARE.

HOWEVER WE DO NOT TAKE ANY RESPONSIBILITY FOR ERRORS OR OMISSIONS.

LEB ELECTRONICS CAN CHANGE, AT ANY TIME AND WITHOUT PREVIOUS WARNING THE CHARACTERISTICS AND THE PRICES OF ALL ITS PRODUCTS.

ALL PRICES MENTIONED IN THIS DOCUMENT ARE IN EUROCURRENCY AND WITHOUT VAT.

MINIMUM ORDER IS EURO 500. BELOW THIS AMOUNT LEB ELECTRONICS HAS THE RIGHT NOT TO CONFIRM ORDER.



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