

Ditec LCA

ΕN

Control panels for 1 or 2 230 V AC motors for swing gates

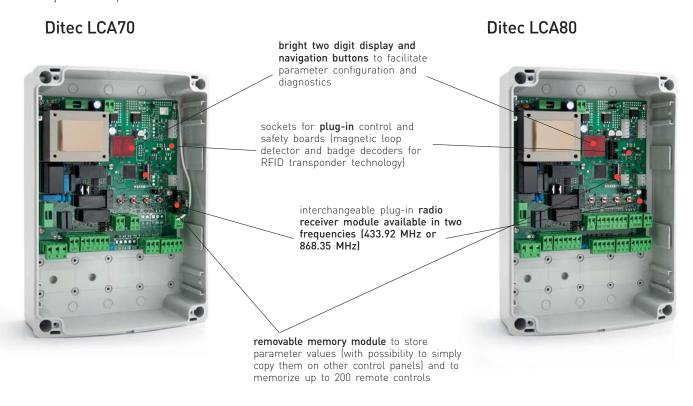
Ditec LCA

Ditec LCA is the new family of multifunction control panels for one or two 230 V AC motors for swing gates. Two versions of the control panel are available:

LCA70 - a control panel complete with 433.92 MHz receiver module, suitable for the needs of the majority of installations.

LCA80 - a premium control panel with exclusive features and advanced configuration options: with a larger number of inputs and outputs, this unit caters comprehensively for any possible application. The receiver module is optional, to let the customer choose between two different frequencies (433.92 MHz or 868.35 MHz).

The integrated display and menu with configuration wizard, standard on both panels, allows the installer to easily configure the electronic board in just few steps.





- menu with configuration wizard (Wizard WZ) to configure the control panel quickly and simply during initial setup: just choose the operating logic, the number of gate wings and whether or not to enable automatic closing, memorize the remote controls, and you're ready to qo!
- pre-configured operating logics: automatic operation with or without deceleration at end of travel, timer-controlled operation with or without deceleration at end of travel, and timercontrolled operation with force limitation
- more expert users can customised over 100 parameters, using the easy-to-use menu, the display and the navigation buttons
- password-protected access to configurations prevents modification by unauthorised persons
- unused inputs may be disabled to prevent subsequent installation of unauthorised accessories
- a choice of two frequencies [433.92 MHz and 868.35 MHz], to avoid disturbance or interference
- temperature sensor, which prevents the motors from icing in case of very cold weather, ice or snow (NIO - No Ice Option function)



- **GREEN mode:** in the majority of today's residential applications, the control panel remains in standby for around 90% of the time, and only actively controls opening and closing movements for 10% of the time. Ditec GREEN Mode (available on LCA80), reduces the electric power consumption of the control panel when in standby mode, offering immediate savings in electricity costs
- high traffic function: this function offers benefits during peak traffic times in condominium applications by reducing wait times for users while limiting the possibility of motor overheating. When enabled, the function monitors the intervals between consecutive open requests and temporarily extends the automatic close delay time in case of consecutive requests within short intervals
- compatible with **Entrematic Smart Connect**, the new system for

managing gates locally or remotely from a mobile app or PC



Ditec LCA control panels are the perfect choice to upgrade and modernise any swing gate: whether with external, articulated arm or in-ground gate openers. The innovative proprietary continuous position monitoring and control system (Ditec Virtual Encoder) even lets you control motors without encoders with the utmost precision and safety.

LCA control panels include the following functions and features:

- Time management functions: individual motor operating times, motor delay times, deceleration at end of opening and closing travel, obstacle detection, increased starting torque, acceleration at start of opening and closing movements, electric lock activation, movement reversal and closing force against mechanical stops
- Management functions for approach speed during opening and closing movements, thrust force against obstacles during normal operation and final approach, and force settings
- Adjustable obstacle thrust force sensitivity for both normal operation and for final approach during opening and closing
- Automatic ramp adjustment: in low temperature conditions, Ditec LCA authomatically increases the initial torque to the highest value whilst reducing the acceleration time to the lowest possible value
- Settings for pressure hold function for hydraulic actuators
- Safety device test
- 2 dedicated inputs (for open and closed positions) for self-testing resistive active safety edges (8.2kΩ) (on LCA80)
- 2 inputs for very low voltage logical limit switches for open and closed positions for each motor (on LCA80 only). Stop limit switches may also be managed, if connected in series with motor phase
- Slot for plug-in Ditec accessories
- Separate power outputs for 24 V AC and 24 V DC accessories
- 1 configurable 24 V DC output on LCA70 (2 outputs on LCA80) for accessories such as a courtesy light, flashing light and gate open indicator lamp, and active output with state dependent on state of gate
- Configurable 12 V AC output for electric lock, and dedicated output for 230 V AC flashing light



DISCOVER

the new electronic retrofit kits for 230 V AC installations

Ditec LCA a control panel for Professionals

- Total open/close cycle counter, to keep track of the total number of cycles performed by the motors.
- Resettable partial open/close cycle counter, for setting
- Integrated diagnostics with counters and recent alarms log

AES-128 ENCRYPTION and PROTECTED mode

Ditec LCA is already capable of receiving radio ENCRYPTION signals with AES-128 encryption: this lets you use encrypted mode, making the use of cloned transmitters impossible.



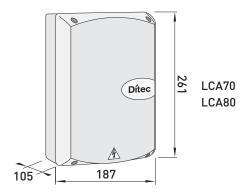
with remote controls programmed with a custom installation code of your choice (PROTECTED Mode, configured with ZENPAD).

FULLY COMPLIANT WITH ALL EU DIRECTIVES AND STANDARDS



- 2014/30/EU EMCD Electromagnetic compatibility directive
- 2014/53/EU RED Radio equipment directive
- 2006/42/EC Machines Directive (Annex II-B; Annex II-A; Annex I-Chapter 1)
- 2011/65/EU RoHS 2 Restriction of Hazardous Substances Directive concerning the use of hazardous substances in electrical and electronic equipment
- EU standard for functional safety: EN ISO 13849-1:2015





Main functions of the system

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Description	LCA70	LCA80
	433.92 MHz in standard configuration	433.92 MHz with ZENRS or with BIXR2
Radio frequency	868.35 MHz with ZENPRS or with BIXPR2	868.35 MHz with ZENPRS or with BIXPR2
Interchangeable receiver module		_
433.92 MHz> 868.35 MHz	220 V AC FO II-	220 V AC FO He
Mains power supply	230 V AC - 50 Hz	230 V AC - 50 Hz
Motor power supply	230 V AC - 50 Hz 2 x 2 A max; 1 x 4 A max	230 V AC - 50 Hz 2 x 2 A max; 1 x 4 A max
Accessory power supply 24V DC and 24V AC	max 0.3A	max 0.5A
Stroke management	End stop detection or limit switch	End stop detection or limit switch
Limit switch management	Limit switch in series with motor phases	Limit switch in series with motor phases and logical limit switches in open and closed positions for each motor
Energy saving (GREEN mode)	·	
Operating temperature	-20°C ÷ +55°C in standard conditions (-35°C ÷ +55°C with NIO system active)	-20°C ÷ +55°C in standard conditions (-35°C ÷ +55°C with NIO system active)
Protection rating of electrical panel	IP55	IP55
Opening control	as alternative to inching control	
Partial opening control.		-
Closing control	_	-
Stop control	from remote control unit only	-
Inching control		
Hold-to-run control selectable from display	•	
Automatic closing contact management		■ in open and closed positions
Safety edge with 8.2kΩ resistance	230 V AC max 25 W	
Flashing light		230 V AC max 25 W
Electric lock	12 V AC max 15 W (configurable)	12 V AC max 15 W (configurable)
Number of configurable 24 V DC outputs	1	2
- gate open warning light (ON/OFF)		•
- gate open warning light with proportional flash mode		•
- courtesy light		•
- 24 V DC LED flashing light		•
Configuration of programmable functions	display and navigation buttons	display and navigation buttons
Force setting		•
Speed setting		•
Operating time setting		
Obstacle thrust force setting		•
Braking/deceleration		
End stop approach distance		■
Automatic closing time		
Compatibility with hydraulic motors		
High traffic management		
Integrated datalogging (counters and recent alarm log)	Viewable on display	Viewable on display
FW update	With Amigo and USBPROG software	With Amigo and USBPROG software
Safety stop (emergency stop)		
Closure safety (reversal)		-
Safety test function (for self-testing safety devices)		
ODS - Obstruction Detection System (stops current movement or reverses movement if an obstacle is detected)		
NIO - Antifreeze system		-
Magnetic loop detector	■with accessory LAB9	■with accessory LAB9





Entrematic Italy S.p.A.

Largo U. Boccioni, 1 · 21040 Origgio (VA) · Italy Tel +39 02 963911 · Fax: +39 02 9650314

ditec@entrematic.com www.ditecentrematic.com Cod. N228B - 07/2020 Ditec LCA