Data sheet

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INVERTER CONTROL

RELIABLE AND STURDY

Automation system for sliding gates up to **2000 Kg**

Ditec **CROSS 18-20**

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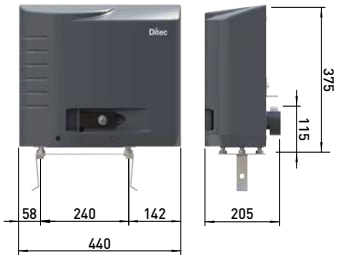

TECHNICAL SPECIFICATIONS

DESCRIZIONE	CROSS 18EP	CROSS 18VEP	CROSS 20VEI
Electromechanical actuator	for sliding gates up to 1800 kg	for sliding gates up to 1800 kg	for sliding gates up to 2000 kg
Stroke control	lever-operated mechanical stop	magnetic limit switch	magnetic limit switch
Capacity	1800 kg	1800 kg	2000 kg
Service index	intensive - up to 350,000 cycles	intensive - up to 350,000 cycles	very intensive - up to 450,000 cycles
Intermittent operation	S2 = 60 min - S3 = 55%	S2 = 60 min - S3 = 55%	S2=90 min - S3=90%
Cycles / hour *	19	19	27
Consecutive cycles *	33	33	44
Power absorption	230 Vac - 50 Hz (60 Hz version on request)	230 Vac - 50 Hz (60 Hz version on request)	230 Vac - 50/60 Hz
Power input	3 A	3 A	3.5 A
Thrust	1800 N	1800 N	2000 N
Opening speed	0.2 m/s	0.2 m/s	0.1 - 0.3 m/s
Closing speed	0.2 m/s	0.2 m/s	0.1 - 0.3 m/s
Max stroke **	36 m	36 m	60 m
Release system for manual opening	key operated	key operated	key operated
Operating temperature	-20°C ÷ +55°C (-35°C ÷ +55°C with NIO enabled)	-20°C ÷ +55°C (-35°C ÷ +55°C with NIO enabled)	-20°C ÷ +55°C (-35°C ÷ +55°C with NIO enabled)
Protection level	IP X4	IP X4	IP X4
Product dimensions (mm)	440x205x375	440x205x375	440x205x375
Control panel	LCA85	LCA85	LCU43A

* Cycles are indicative considering a gate with a length of 10 m, T=25°C and factory settings (a default speed of 20 cm/s - for a different wing length than indicated, please refer to the technical manual). CROSS20VEI allows a speed of 30 cm/s (adjustable). Each cycle is considered an opening maneuver followed by a closing maneuver.
** The maximum stroke of the gate has been calculated considering a default speed of 20 cm/s

TECHNICAL FEATURES

Description	LCA85	LCU43A
Radio frequency	433.92 MHz with ZENRS (already included in the CROSS range) or BIXR2 868,35 MHz with ZENPRS or with BIXPR2	433.92 MHz in standard configuration 868.35 MHz with ZENPRS or with BIXPR2
Interchangeable receiver module 433.92 MHz --> 868.35 MHz	■	■
Mains power supply	230 Vac - 50/60 Hz	230 Vac - 50/60 Hz
Motor power supply	3 A	3.5 A
Accessory power supply 24 Vdc and 24 Vac	0.5 A max	max 0.5 A
Stroke management	virtual encoder and limit switches	virtual encoder and limit switches
Limit switch management	■	
Energy saving (GREEN mode)	reduced consumption in standby*	reduced consumption in standby*
Operating temperature	-20°C ÷ +55°C in standard conditions (-35°C ÷ +55°C with NIO system active)	
Protection rating of electrical panel	IP55	IP55
Opening control	■	■
Partial opening control	■	■
Closing control	■	■
Stop control	■	■
Inching control	■	■
Hold-to-run control selectable from display	■	■
Hold-to-run control only in closing. Automatic opening	■	■
Automatic closing contact management	■	■
Safety edge with 8.2kΩ resistance	■ in open and closed positions	■ in open and closed positions
Flashing light	230 Vac max 25 W	24 Vcc
* Limitation of current absorbed by accessories on standby		
Number of configurable 24 Vdc outputs	2	2
- gate open warning light (ON/OFF)	■	■
- gate open warning light with proportional flash mode	■	■
- courtesy light	■	■
- 24 Vdc LED flashing light	■	■
- status indicator light for stop, safety, maintenance alarm	■	■
Configuration of programmable functions	display and navigation buttons	display and navigation buttons
Force adjustment	■ (electronics)	■ (electronics)
Thrust on obstructions	adjustable	adjustable
Speed		adjustable
Braking/deceleration	■	■
Approach space before the limit switches	adjustable	adjustable
Automatic closing time	adjustable	adjustable
High traffic management	■	■
Integrated datalogging (counters and recent alarm log)	viewable on display	viewable on display
Extended datalogging on Micro SD		■
FW update	using Amigo SW or USBPROG	using MicroSD or using Amigo SW and USBPROG
Safety stop (emergency stop)	■	■
Closure safety (reversal)	■	■
Safety test function (for self-testing safety devices)	■	■
ODS – Obstruction Detection System	■	■
NIO - Antifreeze system	■	■
Magnetic loop detector	■ with accessory LAB9	■ with accessory LAB9