











Automation for sliding gates up to **600 kg**

Ditec ION B

Ditec **ION B**



FULL COMPLIANCE WITH EU DIRECTIVES AND STANDARDS

- ✓ 2006/42/CE Machines Directive regarding the following essential health and safety requirements 1.1.2, 1.1.3, 1.2.1, 1.2.2, 1.2.3, 1.2.4.2, 1.2.6, 1.3.9, 1.4.3, 1.7.2, 1.7.3, 1.7.4, 1.7.4.1, 1.7.4.2
- ∠ 2014/30/EU EMCD Electromagnetic Compatibility Directive
- ✓ 2014/53/EU RED Radio Equipment Directive

Steel plate complete with anchoring clamps ensuring secure

fastening to the ground

- **2011/65/EU** Restriction of hazardous substances (RoHS 2)
- **2015/863/EU -** Restriction of hazardous substances (RoHS 2 Amendment)
- Harmonised EU Standards: EN 60335-1; EN 60335-2-103; EN 12453; EN IEC 55014-1; EN IEC 55014-2; EN IEC 61000-6-1; EN IEC 61000-6-3; ETSI EN 300 220-1; ETSI EN 300 220-2; ETSI EN 300 328; ETSI EN 301 489-17; ETSI EN 301 489-1; ETSI EN 301 489-3; EN IEC 62311; EN IEC 62368-1
- ▶ Other standards/technical specifications applied: IEC 60335-1; IEC 60335-2-103: IEC 62368-1



transmitter



Ditec ION B a versatile product

- ▶ Bi-frequency radio receiver and built-in Bluetooth chip: thanks to the new RCB100E radio receiver module, both 433.92 MHz (default) and 868.35 MHz frequencies are available
- ▶ Rapid self-learning procedure, which automatically records all stopping positions in two operations, self-adjusting to the most diverse installation contexts
- Retrofit steel plate (optional) to avoid building work in the case of replacement of existing Ditec or competitor automation
- Ready for magnetic limit switches for a more accurate adjustment of stopping points in opening or closing
- ✓ The temperature sensor fine-tunes the gear motor performance in the event of cold, ice and snow (NIO - No Ice Option function) and protects the motor in the event of overheating
- ✓ In the event of an emergency, it is possible to release Ditec ION B automation remotely. And that's not all! You can lock again the automation without having to act manually on the motor
- ▶ Battery voltage-level display to check the battery status.



Automation efficiency level detection

- Ditec ION B is able to measure the level of efficiency of the installation, and provide feedback on the detected mechanical performance of the gate or on the choice of the automation. Mechanical maintenance could be recommended to restore efficiency or the adoption of an automation with higher performance may be suggested (e.g., motor with higher power)
- During normal use, the level of efficiency is continuously monitored by the advanced control unit, updating the perceived degradation status in real time. In case of significative variances, a notification is provided to indicate that maintenance is required



Encryption AES-128 and Protected mode

Ready to operate with the AES-128 radio transmission encryption protocol, making the use of cloned transmitters impossible. Ditec ION B is capable of decrypting remote controls programmed with a custom installation code (Ditec PROTECTED Mode)

ION6B

IMPROVED PERFORMANCES FOR GATES UP TO 600 KG! _



STEEL PINION



HIGH-PERFORMANCE SWITCHING POWER SUPPLY



LARGER PLATES
FOR MORE STURDINESS

OPTIONAL ACCESSORIES _



► Emergency battery kit

24 Vdc NiMH batteries with battery charging board and wirings



Chain traction kit



Magnetic limit switches



Remote manual release



- nylon rack, complete with screws (integrated supports)
- steel rack, complete with screws and supports



Plate

steel base perfect to simplify retrofit installations

SMART CONTROL



CONTROL AND MANAGEMENT of automation with your smartphone

In the age of complete connectivity, gate and garage automations have become essential components of modern living. Integrating these automations offers access to an unprecedented level of convenience and security.

Utilizing the Ditec App and the Web app, it's possible to:

- Control and monitor the status of the gate or garage from anywhere, ensuring safe and smooth access
- Receive real-time notifications to keep track of access and
- Simplify configuration and maintenance, reduce response time and improve efficiency
- Provide fast and effective remote support, monitor performance and resolve any problems in real time, ensuring superior service quality

Operational efficiency and reduced response times translate into economic benefits for both installers and end users, creating a win-win ecosystem for both parties.



New Ditec Apps and Cloud



Ditec GATE CONNECT PRO for professionals / installers

COMING SOON

Startup and configuration

- · Local or remote configuration and programming
- Guided start up (wizard)
- Retrieval of documentation, videos, training, ...
- FW update procedure

Routine maintenance: standard professional activities

- Retrieval of information from the automation
- Scheduling of intervention agenda based on number of cycles or time
- Geolocation
- Overview of events and access
- Transmitter management

Extraordinary maintenance:

- Early intervention
- · Notifications if something unexpected happens
- · Remote diagnostics
- Remote support and troubleshooting





Ditec GATE CONNECT for end users

Local and remote control via app Status notification

- (e.g. gate is opening now,...) User management,
- access control via Bluetooth
- Creation of scenarios and scheduled events
- Manage installer permissions





The new European Regulation 2023/826/EU establishes new eco-compatible design requirements for off mode, stand-by mode, and networked-stand-by energy consumption of electrical and electronic household and office equipment within the scope of Directive 2009/125/EC.

It abrogates the previous Regulation 1275/2008/EC and its amendments, adding some specific product categories, among them motor-operated building elements, like gate and door operators.

The new European Regulation will become mandatory from May 2025.



ENERGY < 0.6 W*

New Ditec ION B consumes less in standby than regulatory requirements with an active display and an active Bluetooth network device, thanks to:

- Switching power supplies (instead of transformer)
- High-efficiency control unit that reduces energy losses
- More precise control of output voltage and ability to better adapt to input voltage fluctuations
- Low heat dissipation leading to longer component life and higher reliability over time
- *< 0.6 W networked equipment for ION4B
- < 0.8 W networked equipment for ION6B



Dítec





TECHNICAL SPECIFICATIONS

realisticate of earliest forth			
DESCRIPTION	ION4B	ION6B	
Max. leaf weight	400 kg	600 kg	
Stroke control	Virtual encoder	Virtual encoder	
Maximum opening width	20 m	20 m	
Service class	Intensive use Tested up to 150,000 cycles	Intensive use Tested up to 150,000 cycles	
Power supply	100 Vac - 240 Vac 50-60 Hz	100-120 Vac - 200-240 Vac (selectable by switch), 50-60 Hz	
Power absorption	24 Vdc	24 Vdc	
Thrust	600 N pickup current	800 N pickup current	
Opening and closing speed	0.1 - 0.3 m/s	0.1 - 0.3 m/s	
Release system for manual opening	key operated	key operated	
Intermittence	S2 = 60 min; S3 = 70% (T=25°C)	S2 = 60 min; S3 = 70% (T=25°C)	
Cycles / hour*	40 (T=25°C)	40 (T=25°C)	
Continuous cycles*	56 (T=25°C)	56 (T=25°C)	
Operating temperature	-20°C/+55°C (-35°C/+55°C with NIO enabled)	-20°C/+55°C (-35°C/+55°C with NIO enabled)	
Protection rating	IP 44	IP 44	
Control panel	LCU50DC	LCU50DC	

^{*}Estimated cycles considering a 6-meter gate and factory settings (default speed of 20 cm/s). Different speeds may affect the maximum number of cycles. ION4B/ION6B allows a configurable maximum speed of up to 30 cm/s. A cycle is considered an opening followed by a closing.

MAIN FUNCTIONS OF THE SYSTEM

LCU50DC built-in		
RCB100E (433.92 - 868.35 Mhz selectable)		
built-in		
24 Vdc / 0.3A		
< 0.6 W for ION4B and < 0.8 W for ION6B Networked equipment		
-20°C +55°C in standard conditions -35°C +55°C with NIO enabled		
shared with inching control, which can be selected from the display		
_		
shared with emergency stop, which can be selected from the display		
shared with emergency stop, which can be		
shared with emergency stop, which can be selected from the display		
shared with emergency stop, which can be selected from the display or via radio		
shared with emergency stop, which can be selected from the display or via radio		
shared with emergency stop, which can be selected from the display or via radio shared with partial opening control, which		

OUTPUTS	
24 Vdc number of configurable outputs	2
- Flashing light	24 Vdc
- Electrically operated lock	
- Gate-open warning light (ON/OFF)	
- Gate-open warning light with proportional blink rate	
- Courtesy light	

PROGRAMMABLE FUNCTIONS		
Stroke control	virtual encoder	
Configuration of programmable functions	display and navigation keys via App	
Opening and closing thrust	■ adjustable	
Speed	■ adjustable	
Soft Start / Soft Stop	■ adjustable	
Automatic re-closing time	■ adjustable	
Pre-flashing time in opening and closing	■ adjustable	
Integrated datalogging (counter and recent alarm history)		
Monitoring the level of automation efficiency		
FW update		

SAFETY AND PROTECTION FUNCTIONS		
Emergency stop		
Safe closing (inversion)		
Automatic force adjustment during movement		
D-ODS Dynamic Obstacle Detection system (automatic adjustment of the thresholds to reduce the possibility of false obstacle detection)	•	
Execution methods for force detection tests in accordance with EN 13241-1	•	

ACCESSORIES	
Battery	■ with BBK750X2
Emergency release	■ with ASR2 and IONSBM
8.2 KΩ-resistance safety edge	■ with GOPAV
Magnetic loop detector	■ with LAB9



Ditec S.p.A. Largo U. Boccioni, 1 21040 Origgio (VA) • Italy

Tel +39 02 963911 info@ditecautomations.com www. ditecautomations. com