









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

Ditec ION

Ditec ION

Ditec ION is the range of electromechanical actuators for sliding gates designed to guarantee quality, sturdiness and reliability over time, and to facilitate their installation and maintenance.

The range is made up of **two motor size**, **one for 400 kg and one for 600 kg wing**, both featuring on-board multi-function control panel.



two-digit display and navigation pushbuttons

for easy configuration of settings and diagnostics

steel support plate

accessible **terminals** for easy installation

power supply terminal

protected by fuse

rubber protective cover

prevents entry of dust and insects

adjustable height

ensures perfect coupling with the rack thanks to the slots of the base and the levelling screws

steel reinforcement plates

Direc

transmitter

digital control panel

protected by removable transparent plastic

Slot for safety-command module cards (e.g. self-testing safety edges and magnetic-loop motion detector)

Release microswitch

for greater safety when the automation is released

aluminium die-casting

to ensure greater sturdiness

ergonomic and easy-to-use release handle

steel plate complete with anchoring clamps which securely fasten to the ground

FULL COMPLIANCE WITH EU DIRECTIVES AND STANDARDS

- ✓ 2014/30/EU EMCD Electromagnetic Compatibility Directive
- ✓ 2014/53/EU RED Radio Equipment Directive
- 2006/42/CE Machinery Directive (Annex II-B; Annex II-A; Annex I-Chapter 1)
- → Harmonised EU Standards: EN ISO 13849-1 and EN ISO 13849-2; EN 60335-1; EN61000-6-3; EN61000-6-2; ETSI EN 300 220-1; ETSI EN 300 220-2; ETSI EN 301 489-1; ETSI EN 301 489-3
- ◆ Other standards / technical specifications applied: EN12445; EN62233; EN55014-1



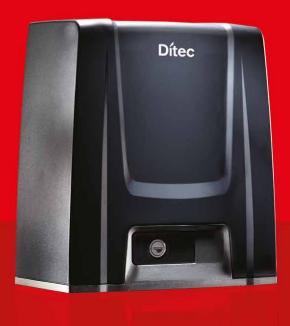
Ditec ION a versatile product

SELF-LEARNING PROCEDURE, guided menu, predefined configurations!

- Rapid self-learning procedure, which automatically records all stopping positions in two operations, self-adjusting to the most diverse installation contexts
- Guided menu (WZ) for fast and simplified configuration of the automation at the first start-up stage
- Steel plate (optional) to avoid building work in the case of replacement of existing Ditec or competitor automation
- Single-block base with pre-fractures for replacement of Cross 3E
- ✓ Three predefined configurations for residential and condominium use. But that's not all: removable storage allows operating settings to be saved and copied to another operating device
- In the event of disturbance/interference, 433.92 MHz and 868.35 MHz frequencies are available
- Available in 230 V AC 50-60 Hz and 120 V AC 50-60 Hz

THE NEW DIGITAL CONTROL PANEL helps you out

- Possibility to comply with operating impact values without having to fit active sensitive edges
- Compliant with EU standard 13849 with or without installation of active edges
- Ready for magnetic limit switches for a more accurate adjustment of stopping points during 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
- Energy saving mode which limits stand-by consumption by disconnecting accessories



ION6

IMPROVED PERFORMANCES FOR WINGS UP TO 600 KG!



HIGH-PERFORMANCE TRANSFORMER



LARGER PLATES FOR MORE STURDINESS

Ditec ION

top of range functions



AES-128 and PROTECTED mode

Ditec ION is ready to operate with the AES-128 radio transmission encryption protocol: you will be able to use the transmitters of the ZEN series in AES-128-bit Encrypted mode making the use of cloned transmitters impossible. The control panel is capable of decrypting remote controls programmed with an installation code customisable as you like (PROTECTED Mode using configuration via ZEN Pad).



OPTIMISED MANAGEMENT

of battery recharging

Thanks to the new management of recharging, the battery controller (optional) makes it possible to prolong the battery life and recharge duration in the event of an emergency.

It is also possible to install systems powered

It is also possible to install systems powered exclusively by solar energy, in stand-alone mode.



CONVENIENCE FIRST

remote releasing and resetting

In the event of an emergency it is possible to release your ION automation remotely. And that's not all! You can lock again the automation without having to act manually on the motor.



SIMPLE AND SECURE ACCESS

via smartphone, locally you can manage remotely

With Entrematic Smart Connect, you can manage the automation through smartphone, tablet and pc, locally or remotely, via Wi-Fi or Ethernet. Open, close and request the status of your access, configure new users and integrate HD real-time video.

With Secure Virtual Access (SVA), entrances can be managed via Bluetooth, enabling credentials that give users permanent or occasional access, according to configurable time bands which can be modified at any time.

AUTOMATION designed for you!

- Total operation counter keeps track of the total number of cycles carried out by the operating device
- Partial operation counter (can be reset) to set a programmed maintenance threshold at which the flashing light will tell your customer that it's time to carry out servicing!
- Possibility of locking the configurations with an access password to permit configuration changes only by qualified personnel

MAINTENANCE has never been quicker

- Integrated diagnostics with counters and history for the most recent alarms, visible on the panel display
- ✓ In the case of extraordinary maintenance, you no longer have to remove all the automation! With Ditec ION it is possible to remove the control panel/transformer block unscrewing just two screws and accessing the mechanical parts directly

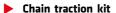


SPECIFIC ACCESSORIES _



Energy controllers

to manage batteries and solar energy production, complete with assembly brackets





Magnetic limit switches optional for ION4 and ION6



Remote manual release

optional for ION4 and ION6



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



steel base perfect to simplify for retrofit installations



Dítec





TECHNICAL SPECIFICATIONS

DESCRIPTION	ION 4 - ION 4J	ION 6 - ION 6J
Max. leaf weight	400 kg	600 kg
Stroke control	virtual encoder	virtual encoder
Maximum opening width	12 m	12 m
Service class	frequent use tested up to 150,000 cycles	frequent use tested up to 150,000 cycles
Power supply	230 V AC - 50/60 Hz 120 V AC - 50/60 Hz (J version)	230 V AC - 50/60 Hz 120 V AC - 50/60 Hz (J version)
Power absorption	24 V DC	24 V DC
Max current absorption	0.45 A 0.9 A (J version)	0.6 A 1.2 A (J version)
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
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	LCU48	LCU48

MAIN FUNCTIONS OF THE SYSTEM

GENERAL DATA	
Control panel	built-in with radio incorporated
Radio frequency	433.92 MHz standard, 868.35 MHz with ZENPRS or with ZENPR2
433.92 MHz> 868.35 MHz interchangeable receiver module	
Mains power supply	230 V AC - 50/60 Hz
Accessories power supply	24 V DC / 0.3A
Limit switch provision	
Energy saving	reduced consumption in standby
Operating temperature	-20°C +55°C in standard conditions -35°C +55°C with NIO enabled

INPUTS	
Open control	shared with inching control, which can be selected from the display
Partial opening control	
Close control	shared with emergency stop, which can be selected from the display
Stop control	via Radio or shared with partial opening control, which can be selected from the display
Inching control	
Hold-to-run command	
Automatic contact closing management (enable or disable automatic closing with external timer or a remote signal)	shared with partial opening control, which can be selected from the display

OUTPUT	
Flashing light	24 V DC
Electrically operated lock	shared with flashing light
Gate-open warning light (ON/OFF)	■ shared with flashing light
Gate-open warning light with proportional blink rate	■ shared with flashing light
Courtesy light	shared with flashing light

virtual encoder
display and navigation keys
Electronic
adjustable
adjustable
adjustable
using Amigo and USBPROG

SAFETY AND PROTECTION FUNCTIONS	5
Emergency stop	
Safe closing (inversion)	
Safety Test Facility (for automatic safety devices)	
ODS – Obstruction Detection System (causes the gate to stop or reverses movement when an obstacle is detected)	•
NIO - Antifreeze system	

atteries	with IONSBU and IONKSBU
eady for integrated batteries	
and-alone solar-power connection	■ with IONSBU
? KΩ-resistance safety edge	■ with GOPAV or SOF accessory
agnetic loop detector	■ with LAB9



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

Tel +39 02 963911 Fax +39 02 9650314 info@ditecautomations.com www.ditecautomations.com

Cod. N231B - 03/2021 Ditec ION