### **ENTRE**/MATIC



Ditec ION EN

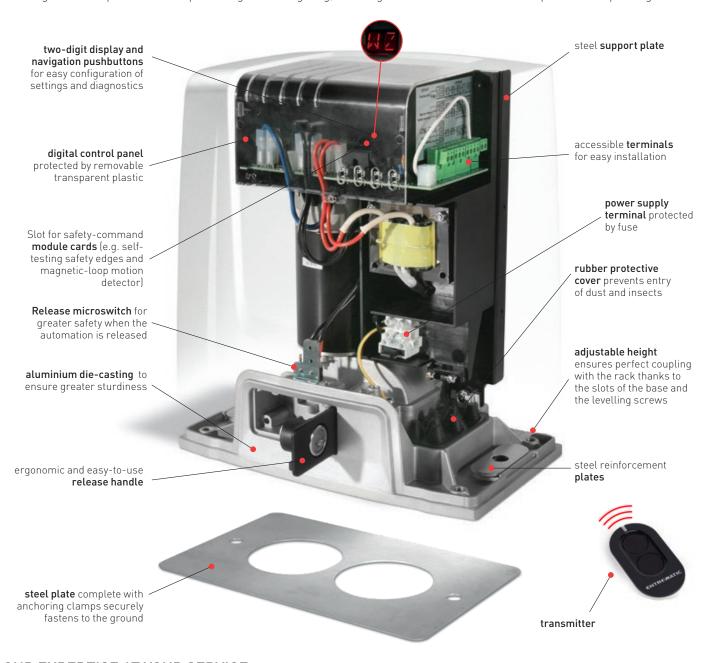
Automation for sliding gates up to 600 kg

www.entrematic.com

## Ditec ION

**Ditec ION** is the new 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 motors per 400 Kg and 600 Kg wing, and integrates the multifunction control panel in the operating device.



#### **OUR EXPERTISE AT YOUR SERVICE**

A complete range. A dedicated team of specialists. Excellence in technology and design. Passionate to be different. Entrematic is a complete business partner in entrance automation, aggregating specialist expertise and well-known brands. Ditec has been a leading brand for more than 40 years, offering a complete range of automation systems for gates, automatic pedestrian doors and rapid doors.

















# 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 868.65 MHz frequencies are available

## THE NEW DIGITAL CONTROL PANEL helps you out

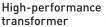
- possibility to comply with operating impact values without having to fit active sensitive edges
- compliant with standard 13849 with or without installation of active edges
- ready for magnetic limit switches for a more accurate adjustment of stopping points during opening or closing
- the **temperature 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 overtemperature
- energy saving mode to limit consumption in standby thanks to disconnection of the accessories



## ION6: SAME ADVANTAGES AS ION4 FOR 600 KG WINGS!



Steel pinion





#### FULL COMPLIANCE WITH EU DIRECTIVES AND STANDARDS



- 2014/30/EU EMCD Electromagnetic Compatibility Directive
- 2014/53/EU RED Radio Equipment Directive
- 2006/42/CE Machines 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 | top of range functions



### AES-128 and PROTECTED mode

Ditec ION is already ready to receive the new AES-128 radio transmission encryption protocol: you will therefore be able to use the transmitters of the ZEN serie in AES-128-bit Encrypted mode making the use of cloned transmitters impossible.

But that's not all! The control panel is capable of decrypting remote controls programmed with **ENGRYPTION** an installation code customisable as you like (PROTECTED Mode using configuration via



## SIMPLE AND SECURE ACCESS via smartphone and access

It is now possible to easily open the gate with a smartphone, via Bluetooth, activating access credentials for permanent or temporary access for other users, based on time periods that can be configured and adjusted at any time (with the optional accessory).



#### **OPTIMISED MANAGEMENT** of battery recharging

Thanks to the new management of recharging, the new 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 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 the automation remotely.

And that's not all! You can lock again the automation without having to act on the motor manually.

#### **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 changes only by qualified personnel

#### **MAINTENANCE**

#### has never been quicker

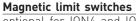
- Integrated diagnostics with counters and history for the most recent alarms, visible on the panel display
- In the case of extraordinary maintenance, from today you no longer have to remove all the automation! With Ditec ION it is possible to remove the control panel/transformer block unscrewing just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



#### SPECIFIC Ditec ION ACCESSORIES ARE EASY TO CHOOSE

#### Controller

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



optional for ION4 and ION6

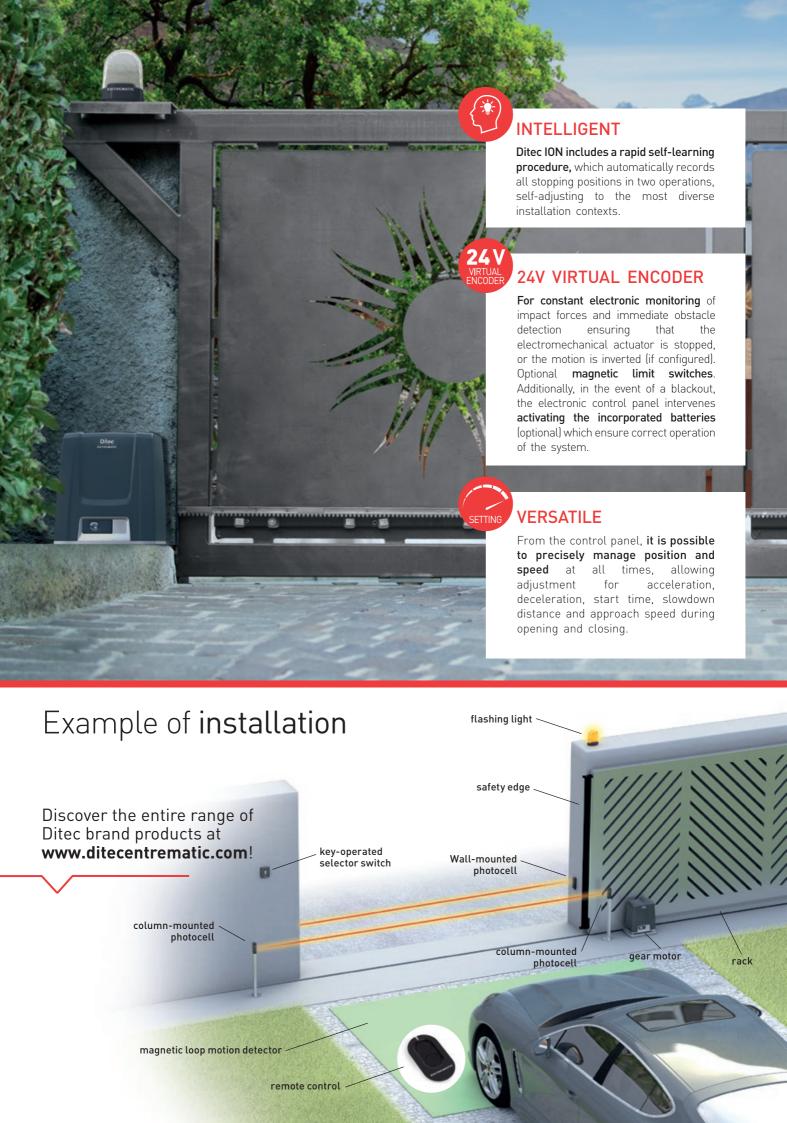




- in nylon, complete with screws (integrated supports) - 28x20x1000 mm
- in steel, complete with screws and supports - 30x12x1000 mm

- in steel for retrofit installations









#### **Technical specifications**

Description	ION 4	ION 6
Max. leaf weight	400 kg	600 kg
Stroke control	virtual encoder	virtual encoder
Maximum opening width	12 m	12 m
Service class	frequent tested up to 150,000 cycles	frequent tested up to 150,000 cycles
Power supply	230 V AC - 50-60 Hz	230 V AC - 50-60 Hz
Power absorption	24 V DC	24 V DC
Power input	0.45 A	0.6 A
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)	
Protection rating	IP 44	IP 44
Control panel	LCU48	LCU48

#### Main functions of the system

Main functions of the system		
TECHNICAL SPECIFICATIONS		
Control panel	built-in with radio incorporated	
Radio frequency	433.92 MHz standard, 868.65 MHz with ZENPRS or with ZENPR2	
433.92 MHz> 868.65 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	

PROGRAMMABLE FUNCTIONS			
Stroke control	virtual encoder		
Configuration of programmable functions	display and navigation keys		
Force adjustment	Electronic		
Speed setting			
Soft Start / Soft Stop	adjustable		
Braking/Slowing down	adjustable		
Stop approach	adjustable		
Adjustable automatic closing time			
Integrated datalogging (counters and recent alarm history)			
FW update	■ using Amigo		
SAFETY and PROTECTION FUNCTIONS			
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			
OPTIONAL ACCESSORIES			
Batteries	■ with IONSBU		
Ready for integrated batteries			
Stand-alone solar-power connection	■ with IONSBU		
8.2 KΩ-resistance safety edge	■ with GOPAV or SOF accessory		
Magnetic loop detector	■ with LAB9		



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