

Dítec
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SMART



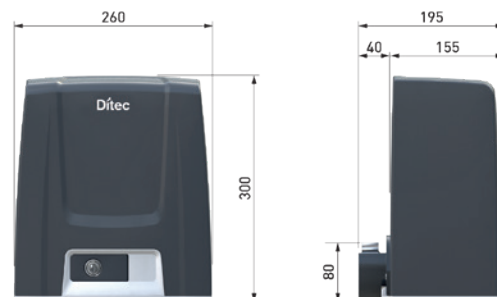
ENERGY
SAVING



SAFE

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

Dítec **ION B**



TECHNICAL SPECIFICATIONS

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

GENERAL DATA

Control panel	LCU50DC built-in
Radio module	RCB100E (433.92 - 868.35 Mhz selectable)
Bluetooth	built-in
Accessories power supply	24 Vdc / 0.3A
Limit switch provision	■
Energy saving	< 0.6 W for ION4B and < 0.8 W for ION6B Networked equipment
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	■ or via radio
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

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

Part of ASSA ABLDY

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Ditec ION B