Ditec

OPEN YOUR WORLD

Automation systems for gates, garage doors, industrial doors and automatic barriers

Catalogue NA-NE-EN-June 2025 issue

www.ditecautomations.com

EN

Automation systems for gates, garage doors, industrial doors and automatic barriers

Automation systems for gates, garage doors, industrial doors and automatic barriers


Dítec

01

AUTOMATION FOR SLIDING GATES

RESIDENTIAL AND CONDOMINIUM APPLICATIONS

Ditec ION 4B - 6B
weight up to 600 kg

Ditec NEOS Green 500 - 800
weight up to 800 kg

COMMERCIAL AND INDUSTRIAL APPLICATIONS

Ditec NEOS Green 1000
weight up to 1000 kg

Ditec CROSS 18
Ditec CROSS 20
Ditec CROSS 35
weight up to 3500 kg

AUTOMATION FOR RESIDENTIAL SLIDING GATES

Ditec ION B

Ditec ION B is the ideal solution for residential sliding gates, available in two models for wings up to 400 kg and 600 kg.
Smart: with the **Ditec SMART CONNECT PRO app**, you can quickly configure automation parameters, monitor its efficiency, and receive notifications for maintenance, all in just a few clicks. Local control via Bluetooth and remote control via Wi-Fi (from end of 2025)
Energy Saving: complying with the new European regulation 2023/826/EU, Ditec ION B minimizes standby consumption. With display and Bluetooth active <0.6W for ION4B and <0.8W for ION6B. Switching power supplies and new high-efficiency control panel
Safe: constant monitoring of impact forces and obstacle detection. AES-128 radio protocol protects against cloned transmitters

SMART ENERGY SAVING SAFE 24V VIRTUAL ENCODER

Product range

Weight up to 400 kg	Weight up to 600 kg
Ditec ION 4B	Ditec ION 6B

Technical specifications

Description	ION 4B	ION 6B
Electomechanical actuator	for sliding gates up to 400 kg	for sliding gates up to 600 kg
Stroke control	virtual encoder	virtual encoder
Capacity	400 kg	600 kg
Maximum opening width	20 m	20 m
Service class	intensive tested up to 150,000 cycles	intensive tested up to 150,000 cycles
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)
Power supply	100-240 Vca - 50/60 Hz	100-120 Vca / 200-240 Vca (selectable by switch) - 50/60 Hz
Power	100 W	150 W
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
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
Product dimensions (mm)	260x195x300	260x195x300
Weight (kg)	8.13	8.3
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.

	ION 4B - ION 6B
TECHNICAL FEATURES	
Control panel	LCU50DC built-in
Radio module	RCB100E
Radio frequency	433,92 (default) - 868,35 Mhz selectable from display)
Bluetooth	built-in in the radio module
Accessories power supply	24 Vdc / 0.3A
Stroke control	virtual encoder
Limit switch provision	■
Standby consumption according to European regulation 2023/826/EU	< 0.6 W for ION4B and < 0.8 W for ION6B with Bluetooth and active display
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
- Gate-open warning light (ON/OFF)	■ 24 Vcc
- Gate-open warning light with proportional blink rate	■ 24 Vcc
- Courtesy light	■
- Electrically operated lock	■
PROGRAMMABLE FUNCTIONS	
Configuration of programmable functions	display and navigation keys via App
Opening and closing thrust	adjustable
Force adjustment	electronic
Speed	adjustable
Soft Start / Soft Stop	adjustable
Braking/Slowing down	adjustable
Stop approach	adjustable
Operation time	adjustable
Automatic closing time	adjustable
Integrated datalogging (counters and recent alarm history)	■
Monitoring the level of automation efficiency	■
FW update	■ via SW FlashIT and USBPROG or via App
SAFETY AND PROTECTION FUNCTIONS	
Emergency stop	■
Safe closing (inversion)	■
Automatic force adjustment during movement	■
Safety Test Facility (for automatic safety devices)	■
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	■
NIO - Antifreeze system	■
OPTIONAL ACCESSORIES	
Battery continuity operation	■ with BBK750X2
Ready for integrated batteries	■
Remote external emergency release	■ with ASR2 and IONSBM
8.2 KΩ-resistance safety edge	■ with GOPAV
Magnetic loop detector	■ with LAB9

Ditec ION 4B - 6B

Automation for sliding gates weighing from 400 up to 600 kg

Ditec ION B guarantees quick installation and maintenance with its self-learning procedure, built-in display and **Ditec GATE CONNECT PRO App** that simplify configuration. The four predefined modes for residential and condominium use increase convenience.
End-user benefits: opening speed up to 30 cm/s to reduce waiting time, remote external unlocking, NiMH emergency batteries for continuity in case of power failure.
With the **Ditec GATE CONNECT App**, the customer can manage the automation both locally and remotely and control access
Ditec ION B, a professional, versatile and eco-friendly solution.

Electromechanical actuators complete with electronic control panel

Article Code	Description
NA**ION4B**	**24 Vdc** motor for gates up to 400 Kg with RCB100E dual-frequency 433/868 MHz radio receiver and integrated Bluetooth
NA**ION6B**	**24 Vdc** motor for gates up to 600 Kg with RCB100E dual-frequency 433/868 MHz radio receiver and integrated Bluetooth

DO IT - Set for sliding gates

Content: 1 gear motor + 1 built-in control panel LCU50DC with RCB100E bi-frequency radio receiver module 433-868 MHz and built-in Bluetooth + 2 rolling code remote control 2Ch 433 MHz (1xZEN2 + 1xZEN2W)+ 1 pair of LIN2 photocells+ 1 FL24 Flashing light complete with antenna and 5 m coaxial cable + 1 E409B warning panel

Article Code	Description
NA**DITION4BL**	**24 Vdc** complete set for gates up to 400 kg
NA**DITION6BL**	**24 Vdc** complete set for gates up to 600 kg

Simplified DO IT - Set for sliding gates

Content: 1 gear motor + 1 built-in control panel LCU50DC with RCB100E bi-frequency radio receiver module 433-868 MHz and built-in Bluetooth + 2 rolling code remote control 2Ch 433 MHz (1xZEN2 + 1xZEN2W)+ 1 pair of LIN2 photocells+ 1 E409B warning panel

Article Code	Description
NA**DITION4BLS**	**24 Vdc** simplified set for gates up to 400 kg
NA**DITION6BLS**	**24 Vdc** simplified set for gates up to 600 kg

Specific accessories

Article Code	Description
NA**IONRFK**	Retrofit steel plate for replacement of existing Ditec or competitor automation with steps 190, 200, 210, 240, 250, 263, 280 and 300 mm
NA**BBK750X2**	Kit consisting of electronic board for recharging batteries, 24 Vdc NiMH batteries to ensure continuity of service, complete with cables. Battery recharging from mains to manage blackouts
NA**IONSBM**	Accessory for remote release system (ION series)
NA**ASR2**	Remote release handle key-protected. Complete with 5 m metal cord
NA**KEYN**	Neutral key
NA**NES100FCM**	Magnetic limit switches
NA**CR4N4**	Black rack 1005 mm, module 4, in PA6 nylon and fiberglass with steel core, 4 fixing points with buttonhole, for sliding gates up to 500 Kg (screws not included)
NA**CR4N6**	Black rack 1018 mm, module 4, in PA6 nylon and fiberglass with steel core, 6 fixing points with buttonhole, for sliding gates up to 800 Kg (screws not included)
NA**CROSSCRI**	Galvanised steel rack, module 4, complete with mountings and screws - 30x12x1000 mm
NA**IONC**	Chain traction kit for ION serie (compatible with 1/2 "x 1/8" chain, not included)

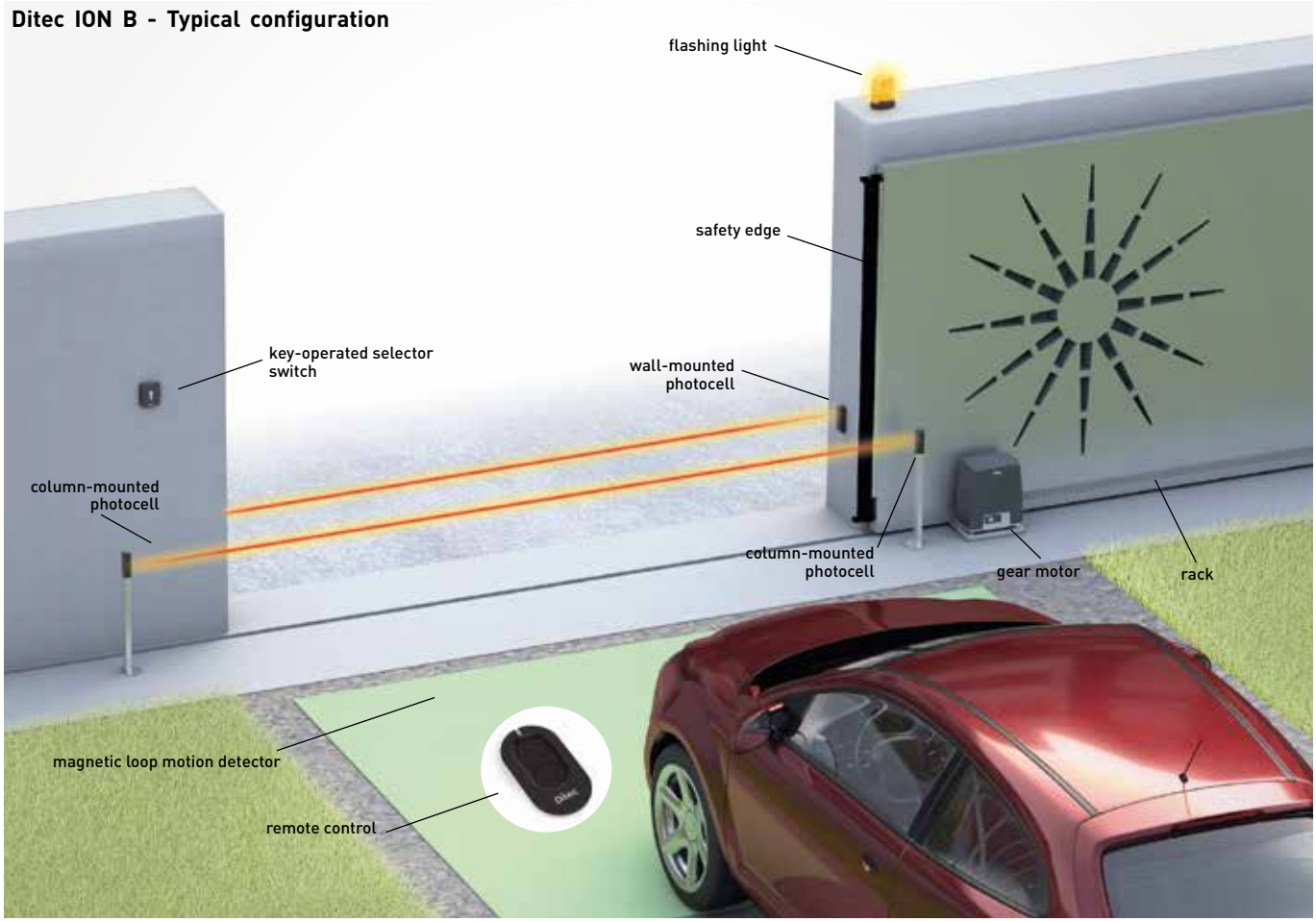
The automation system can be completed with Ditec command, control and safety devices.
■ radio controls > page 86 ■ switches > page 92 ■ photocells > page 96 ■ flashing lights > page 98 ■ safety edges > page 99

IONRFK

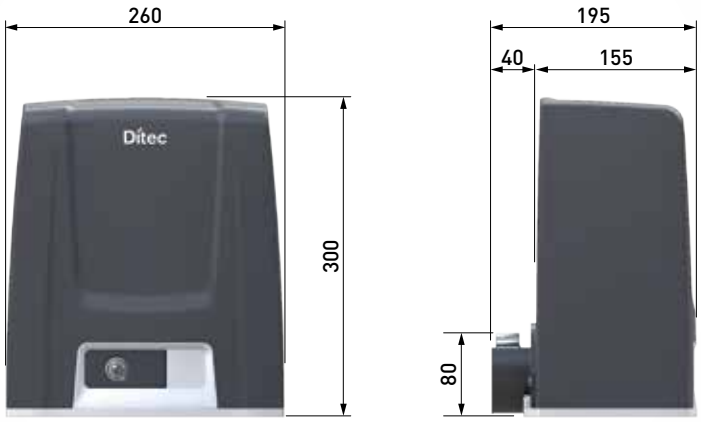
IONC

BBK750X2

Ditec ION B - Typical configuration



Dimensions



AUTOMATION FOR RESIDENTIAL, COMMERCIAL AND INDUSTRIAL SLIDING GATES

Ditec NEOS Green

Ditec NEOS Green is the sliding gate operator available in 3 sizes: 500 kg, 800 kg and 1000 kg.
Energy saving: standby consumption complies with the new European regulation 2023/826/EU. The new Ditec NEOS Green guarantees standby consumption with active display of less than 0.5 W
Safe: constant electronic control of impact forces and immediate obstacle detection
Versatile: position and speed can be precisely managed from the control panel at all times

ENERGY SAVING SAFE 24 V VIRTUAL ENCODER VERSATILE SETTING

Product range

Weight up to 500 kg	Weight up to 800 kg	Weight up to 1000 kg
Ditec NEOS 500 G	Ditec NEOS 800 G	Ditec NEOS 1000 G

Technical specifications

Description	NEOS 500 G	NEOS 800 G	NEOS 1000 G
Electromechanical actuator	for gates up to 500 kg	for gates up to 800 kg	for gates up to 1000 kg
Stroke control	virtual encoder	magnetic limit switch + virtual encoder	magnetic limit switch + virtual encoder
Max. door weight	500 kg	800 kg	1000 kg
Maximum stroke	20 m	20 m	20 m
Duty class	heavy duty - tested up to 150.000 cycles	heavy duty - tested up to 150.000 cycles	heavy duty - tested up to 150.000 cycles
Intermittent operation	S2 = 30 min; S3 = 60% (T=25°C)	S2 = 30 min; S3 = 60% (T=25°C)	S2 = 30 min; S3 = 60% (T=25°C)
Cycles / hour*	26 (T=25°C)	26 (T=25°C)	26 (T=25°C)
Countinuous cycles*	22 (T=25°C)	22 (T=25°C)	22 (T=25°C)
Power supply	230 Vac - 50/60 Hz	230 Vac - 50/60 Hz	230 Vac - 50/60 Hz 120 Vac - 50/60 Hz (J version)
Motor power supply	24 Vdc	24 Vdc	24 Vdc
Power input	1,5 A	1,5 A	2 A - 4 A (J version)
Thrust	500 N	800 N	1000 N
Opening and closing speed	0.1 - 0.25 m/s	0.1 - 0.24 m/s	0.1 - 0.19 m/s
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 rating	IP 24 D	IP 24 D	IP 24 D
Product dimensions (mm)	335 x 210 x 307	335 x 220 x 325	335 x 220 x 325
Weight (kg)	12.7	14	14.6
Control panel	CS12MG	CS12MG	CS12MG

* Cycles estimated considering a 6 m gate, T=25°C and factory settings (default speed of 15 cm/s). Different speeds may affect the maximum number of cycles. NEOS500G, NEOS800G and NEOS1000G allow a configurable maximum speed as shown in the table. A cycle is considered an opening manoeuvre followed by a closing manoeuvre

NES100FCM

SBU

	NEOS 500 G - NEOS 800 G - NEOS 1000 G
GENERAL DATA	
Control panel	CS12MG built-in
Radio module	RCB50E
Radio frequency	433,92 (default) - 868,35 Mhz selectable from jumper)
Accessories power supply	24 Vdc / 0.6 A
Stroke control	virtual encoder for NEOS 500 G virtual encoder + magnetic limit switches for NEOS 800 G and NEOS 1000 G
Limit switch provision	■
Standby consumption according to European regulation 2023/826/EU	< 0.5 W with active display
Operating temperature	-20°C +55°C in standard conditions -35°C +55°C with NIO enabled
INPUTS	
Open control	■
Partial opening control	■
Close control	■
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)	■
OUTPUTS	
Number of 24 Vdc outputs	2
- Flashing light	24 Vdc
- Gate-open warning light (ON/OFF)	■
Configurable 230 Vac C-NO output	1, up to 400 W
- Flashing light	230 Vca
- Courtesy light	■
- Always closed contact - always open contact	■
- Automation closed, open, in movement, in opening, in closing	■
PROGRAMMABLE FUNCTIONS	
Configuration of programmable functions	display and navigation buttons
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)	■
Extended datalogging (in-depth recording of each event)	■
FW update	■ with micro USB cable and Amigo SW
SAFETY and PROTECTION FUNCTIONS	
Emergency stop	■
Safe closing (inversion)	■
Safety test function (for self-monitored safety devices)	■
ODS – Obstruction Detection System (causes the gate to stop or reverses movement when an obstacle is detected)	■
NIO - Antifreeze system	■
ACCESSORIES	
Battery continuity operation	■ with SBU
Battery arrangement built into the automation	■
Solar-powered operation in stand-alone mode	■ with SBU
8.2 KΩ-resistance safety edge	■ with GOPAV
Magnetic loop detector	■ with LAB9

* With SBU it is possible to use photovoltaic panels up to max 20 W to recharge the batteries.
The battery recharging time and the number of possible operations depend on the irradiation conditions

Ditec NEOS Green 500 G - 800 G - 1000 G

Automation for sliding gates weighing from 500 up to 1000 kg

Ditec NEOS Green is a complete product: **the choice of high-quality materials and the internal arrangement of components** are designed to be durable and to resist moisture, dust, and insects.
In addition to the self-learning procedure, there are **three preset configurations** for residential and condominium use and a removable memory on which to save operating parameters and duplicate them on another operator.
Total and partial (resettable) operation counters allow the total number of cycles performed to be known and a scheduled maintenance threshold to be set.
With the new RCB50E bi-frequency receiver, it is possible to choose between **433 MHz and 868 MHz frequency** using the jumper (default 433 MHz)

Electromechanicals actuators complete with an electronic control panel

Article Code	Description of Article
NA**NEOS500G**	24 Vdc operator for gates up to 500 kg with RCB50E dual-frequency 433/868 MHz radio receiver and magnetic limit switches (optional)
NA**NEOS800G**	24 Vdc operator for gates up to 800 kg with RCB50E dual-frequency 433/868 MHz radio receiver and magnetic limit switches
NA**NEOS1000G** NA**NEOS1000GJ***	24 Vdc operator for gates up to 1000 kg with RCB50E dual-frequency 433/868 MHz radio receiver and magnetic limit switches

*J version for 120 Vac power supply

DO IT - Sets for sliding gates

Content: 1 gear motor + 1 CS12MG built-in control panel with RCB50E bi-frequency 433/868 MHz radio receiver + 2 rolling code remote control 2Ch (1xZEN2 + 1xZEN2W) + 1 pair of LIN2 photocells + 1 FL24 Flashing light complete with antenna and 5 m coaxial cable + E409B warning panel

Article Code	Description of Article
NA**DITNEOS500GL**	Complete kit with NEOS500G operator for gates up to 500 kg
NA**DITNEOS800GL**	Complete kit with NEOS800G operator for gates up to 800 kg

Simplified DO IT - Set for sliding gates

Content: 1 gear motor + 1 CS12MG built-in control panel with RCB50E bi-frequency 433/868 MHz radio receiver + 2 rolling code remote control 2Ch (1xZEN2 + 1xZEN2W) + 1 pair of LIN2 photocells + 1 E409B warning panel

Article Code	Description of Article
NA**DITNEOS500GLS**	Simplified kit with NEOS500G operator for gates up to 500 kg
NA**DITNEOS800GLS**	Simplified kit with NEOS800G operator for gates up to 800 kg

Specific accessories

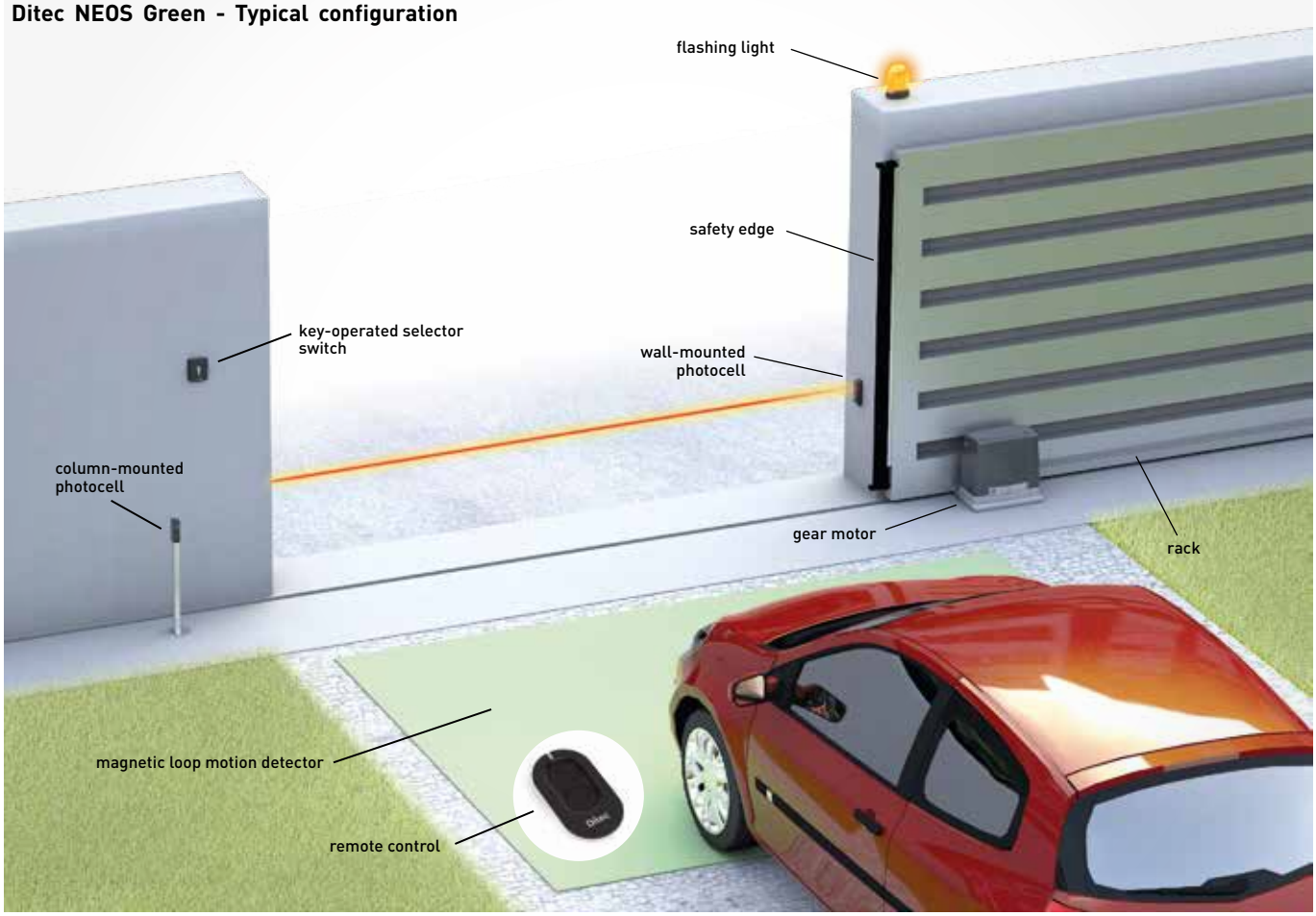
Article Code	Description of Article
NA**NES100PSU**	Steel base plate for heavy application
NA**NES100RFK**	Retrofit plate for adaptation to CROSS CS61 and CROSS 5-7-8-12-18 models and automation for sliding gates with steps 190, 200, 240 and 250 mm
NA**NES100WSP**	"OMEGA" lifting system which can be regulated from the ground
NA**NES100FCM**	Magnetic limit switches
NA**CR4N4**	Black rack 1005 mm, module 4, in PA6 nylon and fiberglass with steel core, 4 fixing points with buttonhole, for sliding gates up to 500 Kg (screws not included)
NA**CR4N6**	Black rack 1018 mm, module 4, in PA6 nylon and fiberglass with steel core, 6 fixing points with buttonhole, for sliding gates up to 800 Kg (screws not included)
NA**CROSSCRI**	Galvanised steel rack, module 4, with mountings and screws - 30x12x1000 mm
NA**NES100CKT**	Chain traction kit for NEOS serie
NA**CATG**	1/2" x 5/16" chain coupling
NA**CAT1**	1/2" x 5/16" chain - 5 m sections (price per meter)
NA**SBU**	Electronic board complete with cables, with three operating modes: continuity mode, with battery charging from power supply to handle blackouts, compatible with all 24 Vdc control panels; solar mode, with battery charging from photovoltaic panel, compatible with LCU40H, ION and NEOS Green; hybrid mode for battery charging via 230 Vac power supply and photovoltaic panel, compatible with LCU40H. Includes mounting brackets for 2 batteries (12V-2Ah, 178x35x62mm) for LCU40H panel, NEOS Green motors and QIK7EH barrier. Batteries not included (max 2 x 12V-7Ah). Photovoltaic panel not included (max 20W)

NES100PSU

NES100RFK

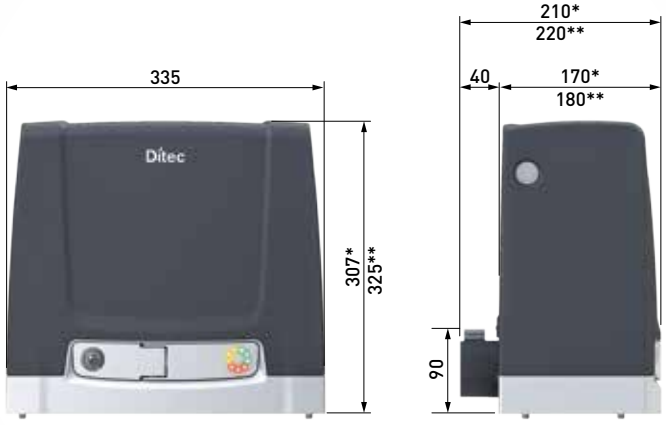
NES100CKT

Ditec NEOS Green - Typical configuration



The automation system can be completed with Ditec command, control and safety devices.
■ radio controls > page 86 ■ switches > page 92 ■ photocells > page 96 ■ flashing lights > page 98 ■ safety edges > page 99

Dimensions



*NEOS 500 Green **NEOS 800 Green and NEOS 1000 Green

AUTOMATION FOR COMMERCIAL, INDUSTRIAL AND CONDOMINIUM SLIDING GATES

Ditec CROSS

Ditec CROSS is the range of automation for sliding gates up to 3500 kg designed for commercial, industrial and condominium installations, guaranteeing maximum safety and reliability. **The automation is available in different solutions** with a standard 230 Vac or inverter control panel
Powerful: 230 Vac electronics guarantees maximum performances even under adverse conditions, thanks to a stronger dynamic thrust during the initial phase of operation. The 230 Vac inverter control panel allows to manage the three-phase motor ensuring a stronger thrust along the whole stroke
Complete range: 2 1800 Kg versions with integrated control panel, single-phase, 1 2000 Kg and 1 3500 Kg version with inverter control panel and magnetic limit switches
Reliable and robust: an automation tested to last a long time

POWERFUL 230V 400V INVERTER CONTROL RELIABLE AND ROBUST

Product range

Weight up to kg 1800	Weight up to kg 2000	Weight up to kg 3500
Ditec CROSS 18	Ditec CROSS 20	Ditec CROSS 35

Technical specifications

Descrizione	CROSS 18EP	CROSS 18VEP	CROSS 20VEI	CROSS 35VEI
Electromechanical actuator	for sliding gates up to 1800 kg	for sliding gates up to 1800 kg	for sliding gates up to 2000 kg	for sliding gates up to 3500 kg
Stroke control	lever-operated mechanical stop	magnetic limit switch	magnetic limit switch	magnetic limit switch
Capacity	1800 kg	1800 kg	2000 kg	3500 kg
Max stroke **	36 m	36 m	60 m	60 m
Service index	intensive up to 350,000 cycles	intensive up to 350,000 cycles	very intensive up to 450,000 cycles	very intensive up to 1,000,000 cycles
Intermittent operation	S2 = 60 min S3 = 55%	S2 = 60 min S3 = 55%	S2 = 90 min S3 = 90%	S1 = 100% continuous use
Cycles / hour *	19	19	27	32
Consecutive cycles *	33	33	44	continuous
Power absorption	230 Vac - 50 Hz	230 Vac - 50 Hz	230 Vac - 50/60 Hz	230 Vac - 50/60 Hz
Power input	3 A	3 A	3.5 A	4 A
Thrust	1800 N	1800 N	2000 N	3500 N
Opening speed	0.2 m/s	0.2 m/s	0.1 - 0.3 m/s	0.1 - 0.25 m/s
Closing speed	0.2 m/s	0.2 m/s	0.1 - 0.3 m/s	0.1 - 0.25 m/s
Release system for manual opening	key operated	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)	-20°C ÷ +55°C (-35°C ÷ +55°C with NIO enabled)
Protection level	IP X4	IP X4	IP X4	IP 55
Product dimensions (mm)	440x205x375	440x205x375	440x205x375	531x275x587
Weight (kg)	23,7	23,7	23,7	50
Control panel	LCA85	LCA85	LCU43A	LCU43B

* 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, CROSS35VEI of 25 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.

	CROSS18EP - CROSS18VEP	CROSS20VEI - CROSS35VEI
TECHNICAL FEATURES		
Control panel	ref. LCA85 (for CROSS18 range includes radio module)	ref. LCU43A (for CROSS20) and LCU43B (for CROSS35)
Radio module	RCB50E	RCB50E
Radio frequency	433,92 (default) 868,35 Mhz selectable from jumper)	433,92 (default) 868,35 Mhz selectable from jumper)
Mains power supply	230 Vac - 50/60 Hz	230 Vac - 50/60 Hz
Motor power supply	3 A	3.5 A (LCU43A) - 4 A (LCU43 B)
Accessory power supply 24 Vdc and 24 Vac	0.5 A max	max 0.5 A
Stroke management	virtual encoder and magnetic limit switches	virtual encoder and magnetic limit switches
Limit switch management	■	■
Operating temperature	-20°C ÷ +55°C in standard conditions (-35°C ÷ +55°C with NIO system active)	-20°C ÷ +55°C in standard conditions (-35°C ÷ +55°C with NIO system active)
Protection rating of electrical panel	IP55	IP55
INPUTS		
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 opening and closing	■ in opening and closing
OUTPUTS		
Flashing light	230 Vac max 25 W	24 Vdc
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	■	■
PROGRAMMABLE FUNCTIONS		
Configuration of programmable functions	display and navigation buttons	display and navigation buttons
Force adjustment	■ (electronics)	■ (electronics)
Thrust on obstructions	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
Extended datalogging on Micro SD (in-depth recording of each event)		■
FW update	■ using Amigo SW or USBPROG	■ using MicroSD or using Amigo SW and USBPROG
SAFETY AND PROTECTION FUNCTIONS		
Safety stop (emergency stop)	■	■
Closure safety (reversal)	■	■
Safety test function (for self-testing safety devices)	■	■
ODS – Obstruction Detection System (causes the gate to stop or reverses movement when an obstacle is detected)	■	■
NIO - Antifreeze system	■	■
OPTIONAL ACCESSORIES		
Magnetic loop detector	■ with LAB9	■ with LAB9

Ditec CROSS 18

Automation for sliding gates weighing up to to 1800 kg

Ditec CROSS 18 – up tp 1800 Kg. Intensive use.

Precise: thanks to an innovative proprietrary system of constant position estimation (Ditec Virtual Encoder), you can perfectly estimate the position with precision and safety, by configuring reduced speeds during the approach phase

Powerful: gear motor in die-cast aluminiium alloy with steel worm screw and grease lubricant suitable for temperatures from -35°C to +55°C

Versatile: vertical levelling screws and horizontal adjustment slots to adjust the automation system to the surface below and the gate rack

Electromechanical actuators for gates weighing up to 1800 Kg

Article Code	Description of Article
NA**CROSS18EP**	230 Vac powered gear motor for gates up to 1800 kg, heavy-duty, 230 Vac motor, integrated LCA85 control panel and RCB50E dual-frequency 433/868 MHz radio receiver. Version with mechanical limit switches
NA**CROSS18VEP**	230 Vac powered gear motor for gates up to 1800 kg, heavy-duty, 230 Vac motor, integrated LCA85 control panel and RCB50E dual-frequency 433/868 MHz radio receiver. Version with magnetic limit switches

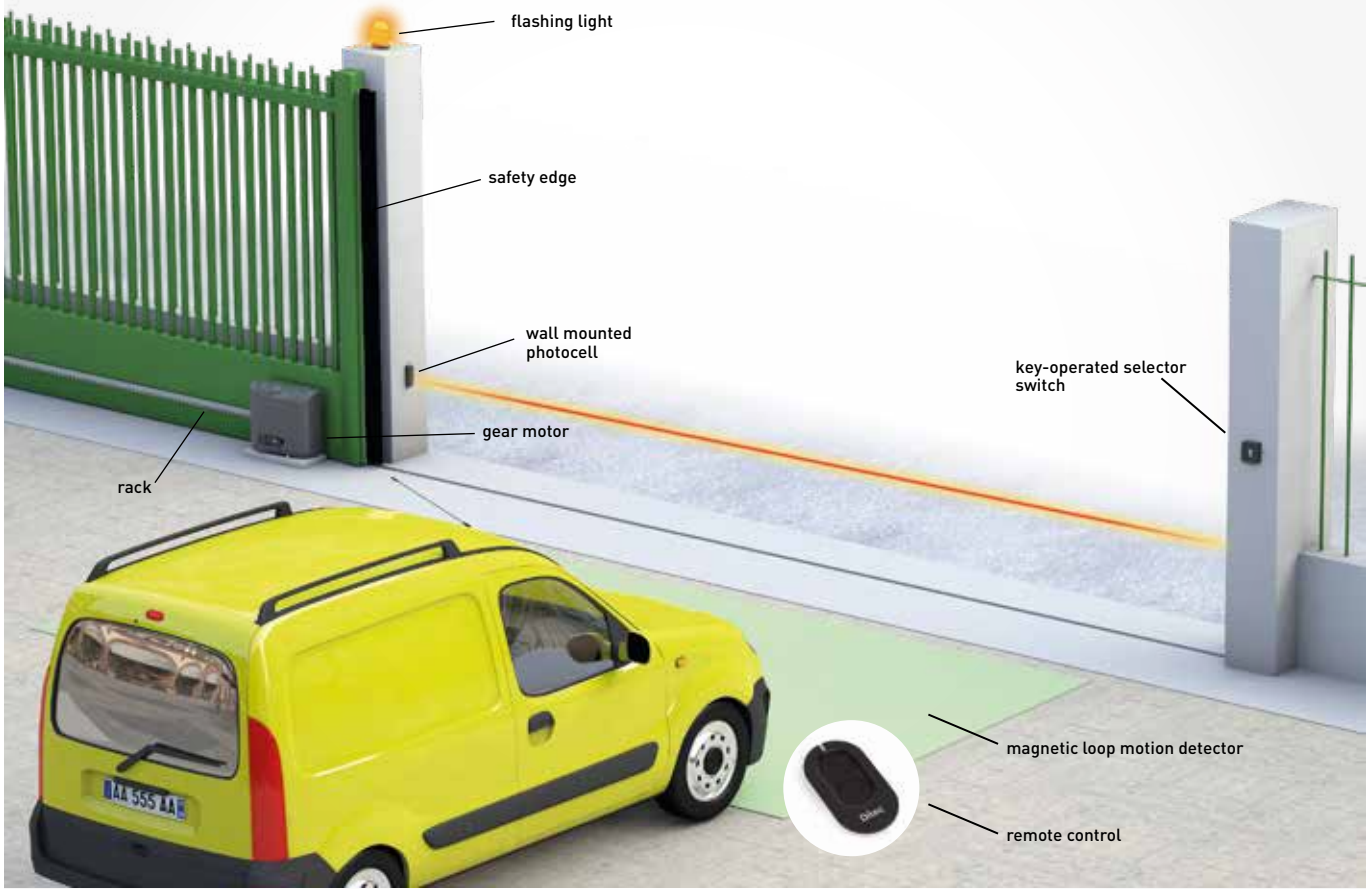
Accessories

Article Code	Description of Article
NA**CROSSCRI**	Galvanised steel rack, module 4, complete with mountings and screws - 30x12x1000 mm
NA**CROSSTC**	Chain drive kit for CROSS18-20 (compatible with 1/2" x 5/16" chain not included)
NA**CATG**	1/2" x 5/16" chain coupling
NA**CAT1**	1/2" x 5/16" chain - 5 m sections (price per meter)
NA**CROSSPM6**	Rack pinion module 6 complete with pinion cover bracket for CROSS 18-20
NA**CROSSCR6**	Galvanised steel rack - module 6 - 30x30x1000 mm

CROSSCRI

CROSSTC

Ditec CROSS 18 - Typical configuration



The automation system can be completed with Ditec command, control and safety devices.
■ radio controls > page 86 ■ switches > page 92 ■ photocells > page 96 ■ flashing lights > page 98 ■ safety edges > page 99

Dimension

Ditec CROSS 20

Automation for sliding gates weighing up to to 2000 kg

Ditec CROSS 20 – up to 2000 Kg. Very intensive use.

230 Vac inverter control panel: the use of the inverter guarantees more power and torque to the motor in all the stroke phases and preserves the hardware of the gate managing acceleration and deceleration ramps

Fast and silent: max configurable speed 30 cm/s for gates up to 2000 Kg, observing all the current standards

Not only for industrial but also for residential and condominium applications: the automation has been rigorously tested and certified to ensure full compliance with specific safety standards even for use in condominium.

Electromechanical actuators with inverter control for gates weighing up to 2000kg

Article Code	Description of Article
NA**CROSS20VEI**	230 Vac powered gear motor for gates up to 2000 kg, for very intensive use, 230 Vac three-phase motor, LCU43A integrated inverter control panel with RCB50E dual-frequency 433/868 MHz radio receiver. Version with magnetic limit switches

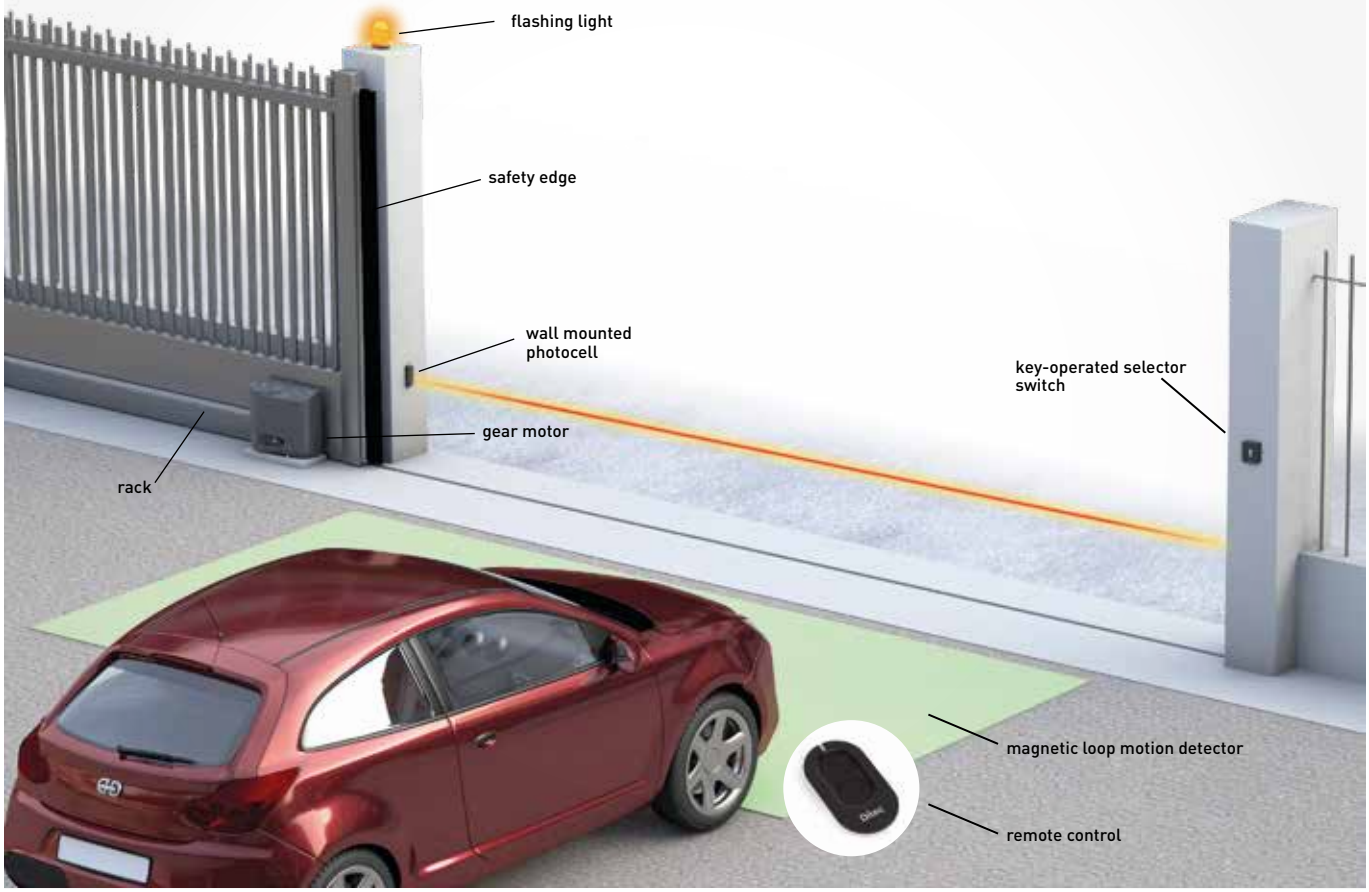
Accessories

Article Code	Description of Article
NA**CROSSCRI**	Galvanised steel rack, module 4, complete with mountings and screws - 30x12x1000 mm
NA**CROSSTC**	Chain drive kit for CROSS18-20 (compatible with 1/2" x 5/16" chain not included)
NA**CATG**	1/2" x 5/16" chain coupling
NA**CAT1**	1/2" x 5/16" chain - 5 m sections (price per meter)
NA**CROSSPM6**	Rack pinion module 6 complete with pinion cover bracket for CROSS 18-20
NA**CROSSCR6**	Galvanised steel rack - module 6 - 30x30x1000 mm

CROSSCRI

CROSSPM6

Ditec CROSS 20 - Typical configuration



The automation system can be completed with Ditec command, control and safety devices.
■ radio controls > page 86 ■ switches > page 92 ■ photocells > page 96 ■ flashing lights > page 98 ■ safety edges > page 99

Dimension

Ditec CROSS 35

Automation for sliding gates weighing up to 3500 kg

Ditec CROSS 35 - for up to 3500 Kg. 100% continuous use.

Reliable: auto-ventilated steel and bronze gear motor with an electric brake and a worm screw that is cemented, tempered and ground with a bronze crown and with oil-bath lubrication. The use of high-quality materials and durable components ensures reliable performance over time, minimizing downtime and maintenance operations

Practical: the sturdy lever-operated release system is easily accessible by opening a key-locked inspection door, guaranteeing access to qualified personnel only.

Inverter control: precise adjustment of speed and acceleration ensure a smooth and controlled movement.

Electromechanical actuator for sliding gates weighing up to 3500 kg

Article Code	Description of Article
NA**CROSS35VEI**	230 Vac powered gear motor for gates up to 3500 kg, for very intensive use, 230 Vac three-phase motor, LCU43B integrated inverter control panel with RCB50E dual-frequency 433/868 MHz radio receiver. Version with magnetic limit switches

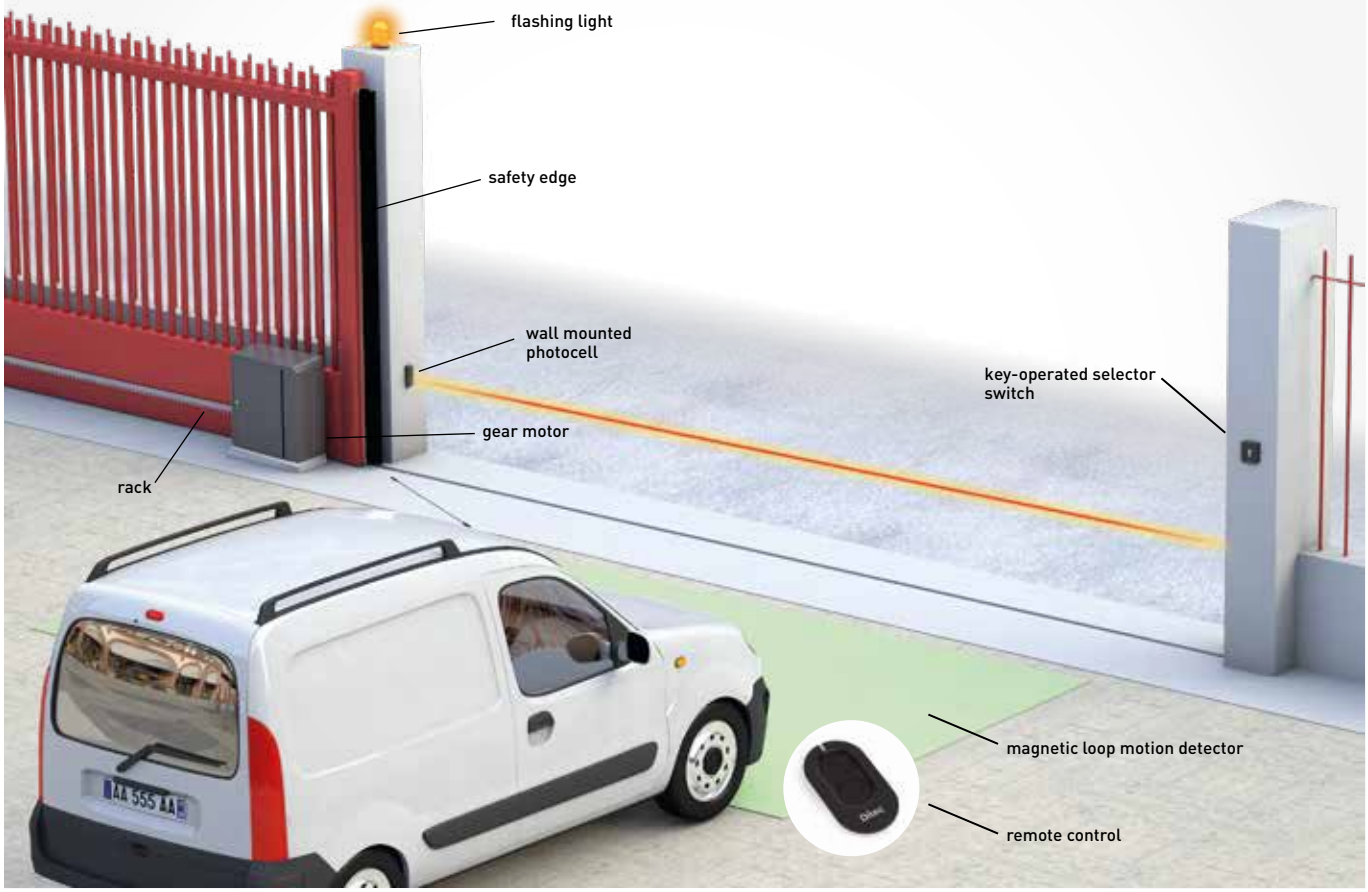
Accessories

Article Code	Description of Article
NA**CROSSCR6**	Galvanised steel rack - module 6 - 30x30x1000 mm
NA**CROSS35PM4**	Primary shaft group with M4 pinion for CROSS35VEI

CROSSCR6

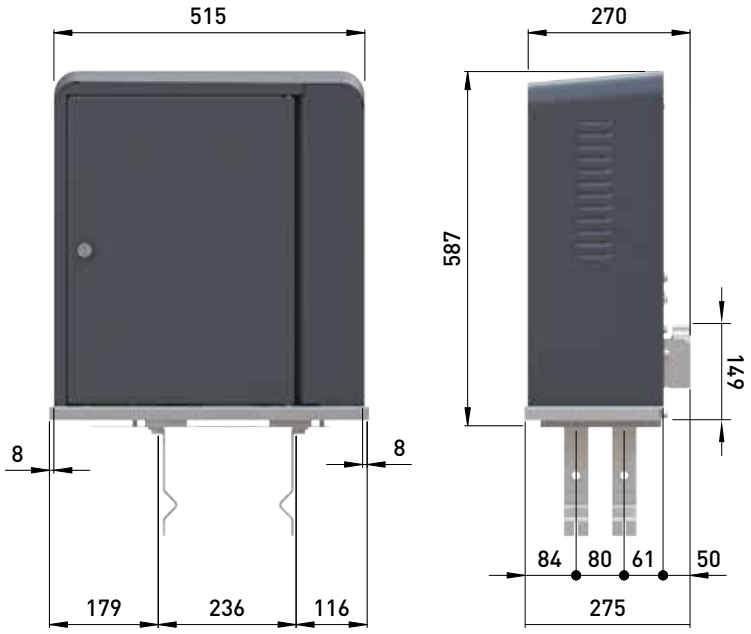
CROSS35PM4

Ditec CROSS 35 - Typical configuration



The automation system can be completed with Ditec command, control and safety devices.
■ radio controls > page 86 ■ switches > page 92 ■ photocells > page 96 ■ flashing lights > page 98 ■ safety edges > page 99

Dimensions




Dítec

02

AUTOMATION SYSTEMS FOR SWING GATES

EXTERNAL AUTOMATION SYSTEM

Ditec TS 35
telescopic up to 3.5 m wide wing

Ditec PWR 25
Ditec PWR 35
Ditec PWR 50
linear up to 5 m wide wing

Ditec FACIL
with articulated arm up to 2.3 wide wing

Ditec ARC
with articulated arm up to 5 m wide wing

UNDERGROUND AUTOMATION SYSTEM

Ditec CUBIC
up to 4 m wide wing

TELESCOPIC
AUTOMATION SYSTEM
FOR SWING GATES

Ditec TS 35

Ditec TS 35 is the **230 Vac irreversible telescopic operator for swing gates** for frequent use and residential applications.
Quick to install: with the gate closed, fix the motor onto the pillar using the pre-drilled bracket plate, extend the telescopic arm and fasten it to the gate wing.
Reliable and sturdy: stainless steel motor shaft, gears and screw. pre-drilled brackets **thicker** than competitors to withstand more effectively the torsional and shear forces
Kit with advanced accessories: advanced functions available, together with Ditec control and security accessories

EASY TO INSTALL

RELIABLE AND STURDY

KIT WITH ADVANCED ACCESSORIES

Product range

For wing up to 3,5 m
Ditec TS 35

Technical specifications

Description	TS35ACD - TS35ACS
Electromechanical actuator	irreversible
Maximum load	400 kg x 1,5 m 300 kg x 3,5 m
Motor power feed	230 Vac - 50/60 Hz
Max power	330 W
Max absorption	1.5 A
Max thrust	3500 N
Opening speed	18 s ÷ 22 s / 90°
Maximum stroke	400 mm
Actuator maximum opening	110°
Intermittent operation	S2 = 10 min / S3 = 30%
Service class	frequent, tested up to 100,000 cycles
Release system for manual opening	key-operated
Operating temperature	-20°C ÷ +55°C in standard conditions (-35°C ÷ +55°C with NIO system)
Protection rating	IP33
Weight (kg)	4
Control panel	LCA70 or LCA80

	TS35ACD - TS35ACS	TS35ACD - TS35ACS
TECHNICAL FEATURES		
Control panel	LCA70 for 1 or 2 230 Vac motors w	LCA80 for 1 or 2 230 Vac
Radio module	RCB50E	RCB50E (optional)
Radio frequency	433,92 (default) 868,35 Mhz selectable from jumper)	433,92 (default) 868,35 Mhz selectable from jumper)
Mains power supply	230 Vac - 50/60 Hz	230 Vac - 50/60 Hz
Motor power supply	230 Vac; 2 x 2 A max; 1 x 4 A max	230 Vac; 2 x 2 A max; 1 x 4 A max
24 Vdc and 24 Vac accessories power supply	0,3 A	0,5 A
Stroke control	end stop detection and time calculation	end stop detection and time calculation
Limit switch provision		■
Temperatura di funzionamento	-20°C ÷ +55°C in standard conditions (-35°C ÷ +55°C with NIO enabled)	-20°C ÷ +55°C in standard conditions (-35°C ÷ +55°C with NIO enabled)
Control panel protection level	IP55	IP55
Control panel dimensions (mm)	187x261x105	187x261x105
INPUTS		
Opening control	shared with step-by-step control, which can be selected via 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	■
Step-by-step control	■	■
Hold-to-run control	■	■
Automatic closing contact management	shared with partial opening control, selected via display	■
OUTPUTS		
Flashing light	230 Vac 25 W max	230 Vac 25 W max
Electrically operated lock	12 Vac 15 W max	12 Vac 15 W max
8.2 KΩ-resistance safety edge	■ with GOPAV	■ during opening and closing (terminal connectors already integrated in the control panel)
24 Vdc number of configurable outputs	1	2
- gate-open warning light (ON/OFF)	■	■
- gate-open warning light with proportional blink rate	■	■
- courtesy light	■	■
- 24 Vdc led flashing light	■	■
PROGRAMMABLE FUNCTIONS		
Configuration of programmable functions	display and navigation keys	display and navigation keys
Force adjustment	■	■
Approach speed	adjustable	adjustable
Thrust on obstructions	adjustable	adjustable
Braking/Slowing down	adjustable	adjustable
Stop approach	adjustable	adjustable
Operation time	adjustable	adjustable
Automatic re-closing time	adjustable	adjustable
Compatibility with hydraulic motors	■	■
Heavy traffic management	■	■
Integrated datalogging (counters and recent alarm history)	■ can be viewed on display	■ can be viewed on display
FW update	■ using Amigo SW and USBPROG	■ using Amigo SW and USBPROG
SAFETY AND PROTECTION FUNCTIONS		
Emergency stop	■	■
Safe closing (inversion)	■	■
Safety Test Facility (for automatic safety devices)	■	■
ODS – Obstacle Detection System (causes the gate to stop or to reverse movement when an obstacle is detected)	■	■
NIO - Antifreeze system	■	■
OPTIONAL ACCESSORIES		
Magnetic loop detector	■ with LAB9	■ with LAB9

Ditec TS 35

Telescopic automation for swing gates up to 3.5 m wide wing

Ditec TS 35 AC - up to 3.5 wide wing. Frequent use.
Ditec control and accessories kit:
- **LIN2 compact photocells** adjustable beam direction
- **Ditec ZEN remote controls** with rolling code or AES-128 encrypted protocol, with literally billions of billions of possible combinations to make cloning impossible
- **Ditec FLM multi-voltage flashing light** with built-in flashing circuit and with a choice of white, blue, green, yellow or orange signal light colours

Telescopic electromechanical actuators for wings up to 3.5 m

Article Code	Description of Article
NA**TS35ACD**	Irreversible, for frequent use, 230 Vac right motor actuator for gate wings up to 3.5 m. Complete with brackets
NA**TS35ACS**	Irreversible, for frequent use, 230 Vac left motor actuator for gate wings up to 3.5 m. Complete with brackets
NA**K2TS35AC**	Pair of TS 35 telescopic actuators (one right, one left) for frequent use, 230 Vac motor, for gate wings up to 3.5 m

DO IT - Set for double wing swing gates

Content: 2 telescopic actuators + 1 LCA70 control panel with RCB50E bi-frequency 433/868 MHz radio receiver + 1 pair of LIN2 photocells + 2 rolling-code 2-channel remote controls (1 x ZEN2 + 1 x ZEN2W) + 1 FLM flashing light complete with aerial and 5 m of coaxial antenna cable per aerial

Article Code	Description of Article
NA**DITS35L**	Complete kit for double wing swing gates up to 7 m (3.5 + 3.5 m)

Simplified DO IT - Set for double wing swing gates

Contents: 2 telescopic operators + 1 LCA70 control panel with RCB50E bi-frequency 433/868 MHz radio receiver + 1 pair of LIN2 photocells + 2 rolling code 2-channel remote controls (1 x ZEN2 + 1 x ZEN2W)

Article Code	Description of Article
NA**DITS35LS**	Simplified kit for double wing swing gates up to 7 m (3.5 + 3.5 m)

Control panel

Article Code	Description of Article
NA**LCA70**	For 1 or 2 230 Vac motors, 1 x 4 A, 2 x 2 A. with RCB50E dual-frequency 433/868 MHz radio receiver
NA**LCA80***	For 1 or 2 230 Vac motors, 1 x 4 A, 2 x 2 A. RCB50E dual-frequency 433/868 MHz radio receiver (not included)

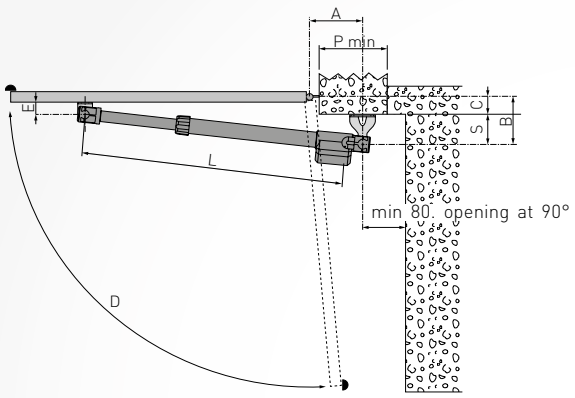
* available while stocks last

TS 35

Ditec TS 35 - Typical configuration

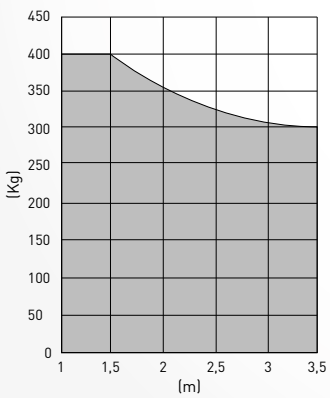
The automation system can be completed with Ditec command, control and safety devices.
■ radio controls > page 86 ■ switches > page 92 ■ photocells > page 96 ■ flashing lights > page 98 ■ safety edges > page 99

Installation measurements

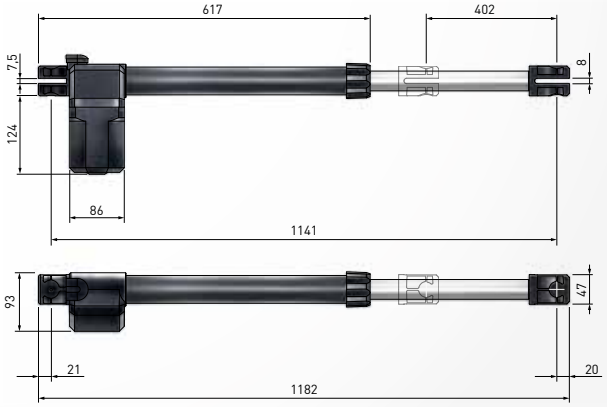


A	B	C	S	D	E	L	P min
150	130	15	115	110°	46	1120	170
160	120	30	90	105°			180
160	160	45	115	100°			180
100	165	50	115	90°			120
130	160	70	90	95°			150
120	200	85	115	95°			140
150	200	85	115	90°			170
130	190	100	90	95°			150
130	220	105	115	90°			150

Operation limits



Dimensions



EXTERNAL AUTOMATION SYSTEM FOR SWING GATES

Ditec PWR

Ditec PWR is the range of operating units for swing gates in residential, condominium and industrial applications.
Safe: The 24 Volt DC motor with a virtual encoder allows for constant adjustment of the force of impact and immediate detection of obstructions
Easy to install thanks to specific design characteristics: installation mounting tool for fast assembly, pre-drilled fixing plates, mechanical stops that only need adjustment.
Complete line: a frequent use motor for wing up to 2.5 m (Ditec PWR 25), one intensive-use motor for wing up to 3.5 m (Ditec PWR 35) and four very-intensive-use motors for wing up to 5 m (Ditec PWR 50 series), three at 24 Vdc and one at 230 Vac

SAFE 24V VIRTUAL ENCODER
EASY TO INSTALL
COMPLETE RANGE

Product range

For wing up to 2.5 m	For wing up to 3.5 m	For wing up to 5 m
Ditec PWR 25	Ditec PWR 35	Ditec PWR 50

Technical specifications

Description	PWR25H	PWR35H
Electromechanical actuator	irreversible for up to 2.5 m wide wing	irreversible for up to 3.5 m wide wing
Stroke control	mechanical stop	mechanical stop (magnetic limit switch optional)
Maximum capacity	400 kg x 1.5 m 200 kg x 2.5 m	600 kg x 1.75 m 250 kg x 3.5 m
Power absorption	24 Vdc	24 Vdc
Maximum power	5 A	5.5 A
Power input	55 W nom. / 120 W max	65 W nom. / 132 W max
Thrust	2000 N	3000 N
Opening time	10÷60 s / 90°	14÷80 s / 90°
Max travel	350 mm	450 mm
Actuator maximum opening	110°	110°
Intermittent operation	30 consecutive cycles at 20°C	50 consecutive cycles at 20°C
Service index	frequent tested up to 150,000 cycles	intensive tested up to 300,000 cycles
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 level	IP44	IP44
Weight (kg)	7.8	9
Control panel	LCU30H - LCU30HJ LCU40H - LCU40HJ*	LCU30H - LCU30HJ LCU40H - LCU40HJ*

*J version for 120 Vac power supply

Technical specifications

Description	PWR50H	PWR50HV	PWR50HR	PWR50AC
Electromechanical actuator	irreversible for up to 5 m wide wing	irreversible for up to 5 m wide wing	reversible for up to 5 m wide wing	non reversible / reversible for up to 5 m wide wing
Stroke control	mechanical stops (magnetic limit switch optional)	magnetic limit switch (mechanical stops optional)	mechanical stop (magnetic limit switch optional)	mechanical stop (in open position)
Maximum capacity	800 kg x 1.75 m 280 kg x 5 m	800 kg x 1.75 m 280 kg x 5 m	800 kg x 1.75 m 280 kg x 5 m	800 Kg x 1,75 m 280 Kg x 5 m
Power absorption	24 Vdc	24 Vdc	24 Vdc	230 Vac - 50 Hz
Maximum power	12 A	12 A	12 A	1,1 A
Power input	65 W nom. / 288 W max	65 W nom. / 288 W max	65 W nom. / 288 W max	250 W
Thrust	6000 N	6000 N	6000 N	6000 N
Opening time	14÷80 s / 90°	14÷80 s / 90°	14÷80 s / 90°	32 s / 90°
Max travel	500 mm	500 mm	500 mm	500 mm
Actuator maximum opening	120°	120°	120°	120°
Intermittent operation	60 consecutive cycles at 20°C	60 consecutive cycles at 20°C	60 consecutive cycles at 20°C	30 consecutive cycles at 20°C
Service index	very Intensive tested up to 450,000 cycles	very Intensive tested up to 450,000 cycles	super Intensive tested up to 600,000 cycles	very Intensive tested up to 450,000 cycles
Release system for manual opening	key-operated	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)	-20°C ÷ +55°C (-35°C ÷ +55°C with NIO enabled)
Protection level	IP44	IP44	IP44	IP44
Weight (kg)	10.5	10.5	10.5	10.5
Control panel	LCU40H - LCU40HJ*	LCU40H - LCU40HJ*	LCU40H - LCU40HJ*	LCA70 or LCA80

*J version for 120 Vac power supply

PWR25H

PWR35H

PWR50 serie

	PWR25H - PWR35H	PWR25H - 35H -50H - 50HV - 50HR
TECHNICAL FEATURES		
Control panel	LCU30H for 1 or 2 24 Vdc motors	LCU40H for 1 or 2 24 Vdc motors
Radio module	RCB50E	RCB50E (optional)
Radio frequency	433,92 (default) 868,35 Mhz (selectable from jumper)	433,92 (default) 868,35 Mhz (selectable from jumper)
Mains power supply	230 Vac or 120 Vac - 50/60 Hz	230 Vac or 120 Vac - 50/60 Hz
Motor power supply	24 Vdc - 2 x 6 A	24 Vdc - 2 x 12 A
Accessories power supply	24 Vdc - 0.3 A (0.5 A max.)	24 Vdc - 0.5 A
Stroke control	virtual encoder	virtual encoder
Limit switch provision	■	■
Operating temperature	-20°C ÷ +55°C in standard conditions / -35°C ÷ +55°C with NIO enabled	
Control panel protection level	IP55	IP55
Control panel dimensions (mm)	187x261x105	238x357x120
INPUTS		
Opening control	shared with step-by-step control, selected via 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	■
Step-by-step control	■	■
Hold-to-run control	■ selected via display	■
Automatic closing contact management	shared with partial opening control, selected via display	■
OUTPUTS		
Flashing light	24 Vdc	24 Vdc
Electrically operated lock	12 Vdc / 15 W	12 Vdc / 15 W
Gate-open warning light (ON/OFF)	■ shared with electrically operated lock or flashing light	■
Gate-open warning light with proportional blink rate	■ shared with electrically operated lock or flashing light	■
Courtesy light	■ shared with electrically operated lock or flashing light	■ shared with electrically operated lock or flashing light
PROGRAMMABLE FUNCTIONS		
Configuration of programmable functions	display and navigation keys	display and navigation keys
Force adjustment	electronic	electronic
Speed	adjustable	adjustable
Soft Start/Soft Stop	adjustable	adjustable
Braking/Slowing down	adjustable	adjustable
Stop approach	adjustable	adjustable
Operation time	adjustable	adjustable
Automatic re-closing time	adjustable	adjustable
Integrated datalogging (counters and recent alarm history)	■ can be viewed on display	■ can be viewed on display and on a PC with Amigo SW
Extended datalogging with micro SD (in-depth records for every event)		■ can be viewed on a PC with Amigo SW
FW update	■ using Amigo SW and USBPROG	■ using MicroSD or using Amigo SW and USBPROG
SAFETY AND PROTECTION FUNCTIONS		
Emergency stop	■	■
Safe closing (inversion)	■	■
Safety Test Facility (for automatic safety devices)	■	■
ODS – Obstacle Detection System (causes the gate to stop or to reverse movement when an obstacle is detected)	■	■
NIO - Antifreeze system	■	■
OPTIONAL ACCESSORIES		
Battery continuity operation	■ with SBU	■ with SBU
Possibility of integrated batteries in the control panel		■
Stand-alone solar-powered installation		■ con SBU*
Hybrid solar-powered installation		■ with SBU
8.2 KΩ-resistance safety edge	■ with GOPAV	■ with GOPAV
Magnetic loop detector	■ with LAB9	■ with LAB9

* With SBU it is possible to use photovoltaic panels up to max 20 W to recharge the batteries.
The battery recharging time and the number of possible operations depend on the irradiation conditions

	PWR50AC	PWR50AC
TECHNICAL FEATURES		
Control panel	LCA70 for 1 or 2 230 Vac motors	LCA80 for 1 or 2 230 Vac motors
Radio module	RCB50E	RCB50E
Radio frequency	433,92 (default) 868,35 Mhz (selectable from jumper)	433,92 (default) 868,35 Mhz (selectable from jumper)
Mains power supply	230 Vac - 50/60 Hz	230 Vac - 50/60 Hz
Motor power supply	230 Vac; 2 x 2 A max; 1 x 4 A max	230 Vac; 2 x 2 A max; 1 x 4 A max
24 Vdc and 24 Vac accessories power supply	0,3 A	0,5 A
Stroke control	end stop detection and time calculation	end stop detection and time calculation
Limit switch provision		■
Operating temperature	-20°C ÷ +55°C in standard conditions (-35°C ÷ +55°C with NIO enabled)	
Control panel protection level	IP55	IP55
Control panel dimensions (mm)	187x261x105	187x261x105
INPUTS		
Opening control	shared with step-by-step control, which can be selected via 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	■
Step-by-step control	■	■
Hold-to-run control	■	■
Automatic closing contact management	shared with partial opening control, selected via display	■
OUTPUTS		
Flashing light	230 Vac 25 W max	230 Vac 25 W max
Electrically operated lock	12 Vac 15 W max	12 Vac 15 W max
8.2 KΩ-resistance safety edge	■ with GOPAV	■ during opening and closing (terminal connectors already integrated in the control panel)
24 Vdc number of configurable outputs	1	2
- gate-open warning light (ON/OFF)	■	■
- gate-open warning light with proportional blink rate	■	■
- courtesy light	■	■
- 24 Vdc led flashing light	■	■
PROGRAMMABLE FUNCTIONS		
Configuration of programmable functions	display and navigation keys	display and navigation keys
Force adjustment	■	■
Approach speed	adjustable	adjustable
Thrust on obstructions	adjustable	adjustable
Braking/Slowing down	adjustable	adjustable
Stop approach	adjustable	adjustable
Operation time	adjustable	adjustable
Automatic re-closing time	adjustable	adjustable
Compatibility with hydraulic motors	■	■
Heavy traffic management	■	■
Integrated datalogging (counters and recent alarm history)	■ can be viewed on display	■ can be viewed on display
FW update	■ using Amigo SW and USBPROG	■ using Amigo SW and USBPROG
SAFETY AND PROTECTION FUNCTIONS		
Emergency stop	■	■
Safe closing (inversion)	■	■
Safety Test Facility (for automatic safety devices)	■	■
ODS – Obstacle Detection System (causes the gate to stop or to reverse movement when an obstacle is detected)	■	■
NIO - Antifreeze system	■	■
OPTIONAL ACCESSORIES		
Magnetic loop detector	■ with LAB9	■ with LAB9

Ditec PWR 25, Ditec PWR 35, Ditec PWR 50

Automation for swing gates up to 5 m wide wing

Ditec PWR 25 and 35 - for wing up to 3.5 m. Frequent and intensive use
Easy: simply loosen a single screw to remove the plastic cover and access the electrical wire terminals.
Sturdy: actuator consisting of two robust aluminium die castings which guarantee optimal protection against shearing forces and torsion.

Ditec PWR 50 - for wing up to 5 m. Intensive to super intensive use
Practical: manual release that guarantees opening with minimum effort and a removable cover for easy access to the screw for adjustment and maintenance.
Simple: accurate adjustment of mechanical limit stops directly on the screw (PWR50H, PWR50HR and PWR50AC in opening). Pre-mounted and wired magnetic limit switches (PWR50HV). In addition, there is a slotted mounting plate to weld the bracket quickly and easily

Electromechanical actuators for wings up to 2.5 - 3.5 - 5 m

Article Code	Description of Article
NA**PWR25H**	Irreversible for frequent use, **24 Vdc** motor for wing up to 2.5 m. Complete with brackets, mechanical limit stops and plastic screw protection
NA**PWR35H**	Irreversible for intensive use, **24 Vdc** motor for wing up to 3.5 m. Complete with brackets, mechanical limit stops and plastic screw protection
NA**PWR50H**	Irreversible for very intensive use, **24 Vdc** motor, for wing up to 5 m. Complete with brackets, mechanical limit stops (PWRFM) and screw-protecting dustproof brushes
NA**PWR50HV**	Irreversible for very intensive use, **24 Vdc** motor, for wing up to 5 m. Complete with brackets, pre-fitted magnetic limit switches (PWR50ML) and screw-protecting dustproof brushes
NA**PWR50HR**	Reversible for super intensive use, **24 Vdc** motor, for wing up to 5 m. Complete with brackets, mechanical limit stops (PWRFM) and screw-protecting dustproof brushes
NA**PWR50AC**	Reversible - irreversible, for very intensive use, 230 Vac motor, for wing up to 5 m. Complete with brackets, mechanical limit stop in opening (PWRFM)

DO IT - Set for double wing swing gates

Content: 2 actuators + 1 LCU30H control panel with RCB50E bi-frequency 433/868 MHz radio receiver + 1 pair of LIN2 photocells + 2 rolling-code remote control 2-Ch (1 x ZEN2 + 1 x ZEN2W) + 1 FL24 Flashing light complete with aerial and 5 m of coaxial cable per aerial + E409B warning panel

Article Code	Description of Article
NA**DITPWR25HL**	Complete set for double wing swing gates up to 5 m (2.5 + 2.5 m)

Content: 2 actuators + 1 LCU40H control panel with RCB50E bi-frequency 433/868 MHz radio receiver + 1 pair of LIN2 photocells + 2 rolling-code remote control 2-Ch (1 x ZEN2 + 1 x ZEN2W) + 1 FL24 Flashing light complete with aerial and 5 m of coaxial cable per aerial + E409B warning panel

Article Code	Description of Article
NA**DITPWR35HL**	Complete set for 2 double swing gates up to 7 m (3.5 + 3.5 m)

Simplified DO IT - Set for double wing gate

Content: 2 actuators + 1 LCU30H control panel with RCB50E bi-frequency 433/868 MHz radio receiver + 1 pair of LIN2 photocells + 2 rolling code remote control 2-Ch (1xZEN2 + 1xZEN2W) + E409B warning panel

Article Code	Description of Article
NA**DITPWR25HLS**	Simplified set for double wing gate up to 5 m wide (2.5 m + 2.5 m)
NA**DITPWR35HLE**	Simplified set for double wing gate up to 7 m wide (3.5 m + 3.5 m)

Content: 2 actuators + 1 LCU40H control panel with RCB50E bi-frequency 433/868 MHz radio receiver + 1 pair of LIN2 photocells + 2 rolling code remote control 2-Ch (1xZEN2 + 1xZEN2W) + E409B warning panel

Article Code	Description of Article
NA**DITPWR35HLS**	Simplified set for double wing gate up to 7 m wide (3.5 m + 3.5 m)

Control panels 24 Vdc

Article Code	Description of Article
NA**LCU30H** - NA**LCU30HJ***	For one or two **24 Vdc** / 2 x 6 A max motors with RCB50E dual-frequency 433/868 MHz radio receiver
NA**LCU40H** - NA**LCU30HJ***	For one or two **24 Vdc** / 2 x 12 A max motors with RCB50E dual-frequency 433/868 MHz radio receiver

*J version 120 Vac power supply

Control panels 24 Vdc

Article Code	Description of Article
NA**LCU30H - NALCU30HJ***	For one or two **24 Vdc** / 2 x 6 A max motors with RCB50E dual-frequency 433/868 MHz radio receiver
NA**LCU40H - NALCU30HJ***	For one or two **24 Vdc** / 2 x 12 A max motors with RCB50E dual-frequency 433/868 MHz radio receiver

*J version 120 Vac power supply

Control panel 230 Vac

Article Code	Description of Article
NA**LCA70**	For 1 or 2 230 Vac motors, 1 x 4 A, 2 x 2 A. RCB50E dual-frequency 433/868 MHz radio receiver
NA**LCA80***	For 1 or 2 230 Vac motors, 1 x 4 A, 2 x 2 A. RCB50E dual-frequency 433/868 MHz radio receiver (not included)
NA**RCB50E**	Plug-in 433 - 868 MHz bi-frequency receiver module for control panels with built-in radio decoder. Male connector

* available while stocks last

Specific accessories

Article Code	Description of Article
NA**PWRMI**	Installation mounting tool for electromechanical actuators
NA**PWR35ML**	Magnetic limit switches for PWR35H
NA**PWR50ML**	Magnetic limit switches assembly for PWR50H and PWR50HR
NA**PWRACF**	Limit switch set in opening and closing for PWR50AC motor
NA**PWRFM**	Internal mechanical limit stop for PWR50 series
NA**PWRSBM**	Accessory for a remote release system for PWR25H and PWR35H electromechanical actuators
NA**ASR**	Remote release system: key-protected container, release lever, control pushbutton, 5 m cord

PWR range

PWRMI

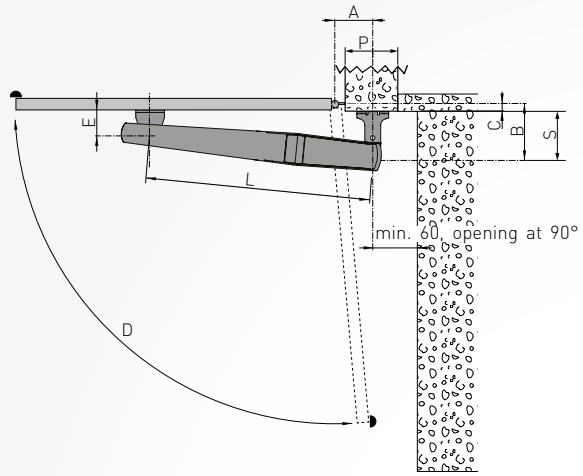
PWR35ML

PWR50ML

PWRFM

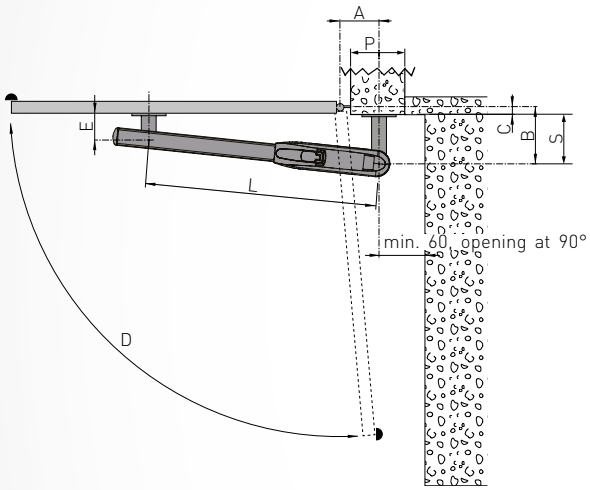
ASR + PWRSBM

Installation measurements



Ditec PWR 25 - 35

	A	B	C	S	D	E	L	P min
PWR25H	90	160	50	110	95°	90	700	110
	110	160	50	110	100°			120
	150	130	50	80	110°			160
	130	150	70	80	90°			140
	110	180	100	80	90°			120
	100	190	110	80	90°			110
PWR35H	90	190	50	140	95°	110	850	100
	130	190	50	140	100°			140
	150	190	50	140	110°			160
	130	180	70	110	90°			140
	130	210	100	110	90°			140
	110	260	150	110	90°			120
	100	280	200	80	90°			110

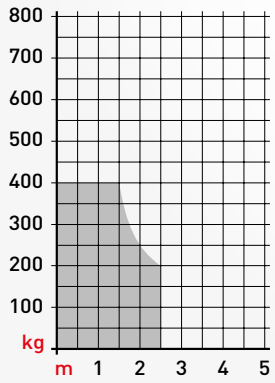


Ditec PWR 50

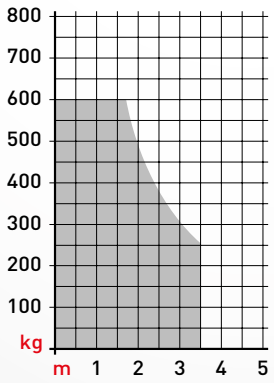
	A	B	C	S	D	E	L	P min
PWR50H PWR50HV PWR50HR PWR50AC	200	190	20	170	120°	120	910	220
	200	200	50	150	110°			220
	100	220	50	170	90°			120
	130	210	70	140	95°			150
	170	220	100	120	95°			190
	200	190	100	90	100°			220
	150	220	150	70	95°			170
	130	290	220	70	90°			150

Operation Limits

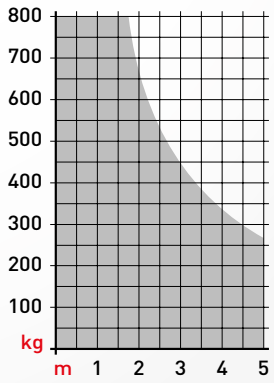
PWR25H



PWR35H



PWR50 series

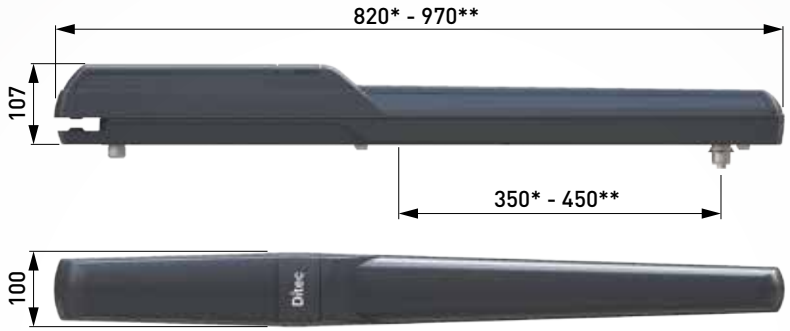


Ditec PWR 25H - PWR 35H - Typical configuration

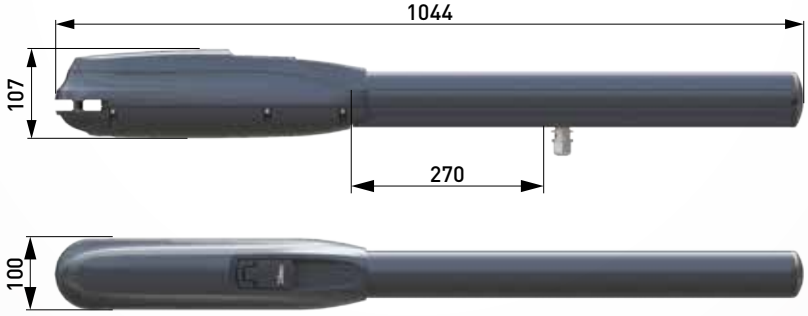
Installation diagram also applicable for the PWR 50 versions

The automation system can be completed with Ditec command, control and safety devices.
■ radio controls > page 86 ■ switches > page 92 ■ photocells > page 96 ■ flashing lights > page 98 ■ safety edges > page 99

Dimensions



*Ditec PWR25H **Ditec PWR35H



Ditec PWR50H - PWR50HV - PWR50HR - PWR50AC

AUTOMATION WITH ARM
FOR SWING GATES

Ditec FACIL

Ditec FACIL is an articulated-arm automation system for gates with wing up to 2.3 m or weighing up to 300 kg, suitable for medium and large sized pillars that may even be out-of-plumb.
Safe: The 24 Volt DC motor with a virtual encoder allows for constant adjustment of the force of impact and immediate detection of obstructions.
Easy to install: it can be installed in just two steps thanks to the motor's brackets that can be attached very quickly without any welding.
Versatile: the manual key-operated release system is located at the front and is easily accessible. Ready for optional remote release system and optional batteries.

SAFE 24V VIRTUAL ENCODER
EASY TO INSTALL
VERSATILE SETTING

Product range

For wing up to 2.3 m
Ditec FACIL 3H - Ditec FACIL 3TH

Technical specifications

Description	FACIL 3TH	FACIL 3H
Electromechanical actuator	irreversible for up to 2.3 m wide wing	irreversible for up to 2.3 m wide wing
Stroke control	rotary limit switch (optional)	rotary limit switch (optional)
Maximum capacity	200 kg x 2.3 m 300 kg x 1 m	200 kg x 2.3 m 300 kg x 1 m
Service index	frequent	frequent
Intermittent operation	S2 = 30 min S3 = 50%	S2 = 30 min S3 = 50%
Power absorption	24 Vdc	24 Vdc
Power input	6 A	6 A
Torque	200 Nm	200 Nm
Opening time	10÷55 s/90°	10÷55 s/90°
Actuator maximum opening	110°	110°
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 level	IP 54	IP 54
Product dimensions (mm)	188x285x332	188x285x332
Weight (kg)	13.9	11.3
Control panel	LCU30HFC	LCU30H - LCU30HJ* LCU40H - LCU40HJ*

*J version 120 Vac power supply

	FACIL 3TH - FACIL 3H	FACIL 3H
TECHNICAL FEATURES		
Control panel	LCU30HFC (FACIL 3TH) and LCU30H (FACIL 3H) for 1 or 2 24 Vdc motors	LCU40H for 1 or 2 24 Vdc motors
Radio module	RCB50E	RCB50E
Radio frequency	433,92 (default) 868,35 Mhz (selectable from jumper)	433,92 (default) 868,35 Mhz (selectable from jumper)
Mains power supply	230 Vac or 120 Vac - 50/60 Hz	230 Vac or 120 Vac - 50/60 Hz
Motor power supply	24 Vdc - 2 x 6 A	24 Vdc - 2 x 12 A
Accessories power supply	24 Vdc - 0.3 A (0.5 A max.)	24 Vdc - 0.5 A
Stroke control	virtual encoder	virtual encoder
Limit switch provision	■	■
Operating temperature	-20°C ÷ +55°C in standard conditions (-35°C ÷ +55°C with NIO enabled)	
Control panel protection level	IP55	IP55
Control panel dimensions (mm)	187x261x105	238x357x120
INPUTS		
Opening control	shared with step-by-step control, selected via 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	■
Step-by-step control	■	■
Hold-to-run control	■ selected via display	■
Automatic closing contact management	shared with partial opening control, selected via display	■
OUTPUTS		
Flashing light	24 Vdc	24 Vdc
Electrically operated lock	12 Vdc / 15 W	12 Vdc / 15 W
Gate-open warning light (ON/OFF)	■ shared with electrically operated lock or flashing light	■
Gate-open warning light with proportional blink rate	■ shared with electrically operated lock or flashing light	■
Courtesy light	■ shared with electrically operated lock or flashing light	■ shared with electrically operated lock or flashing light
PROGRAMMABLE FUNCTIONS		
Configuration of programmable functions	display and navigation keys	display and navigation keys
Force adjustment	electronic	electronic
Speed	adjustable	adjustable
Soft Start/Soft Stop	adjustable	adjustable
Braking/Slowing down	adjustable	adjustable
Stop approach	adjustable	adjustable
Operation time	adjustable	adjustable
Automatic re-closing time	adjustable	adjustable
Integrated datalogging (counters and recent alarm history)	■ can be viewed on display	■ can be viewed on display and on a PC with Amigo SW
Extended datalogging with micro SD (in-depth records for every event)		■ can be viewed on a PC Amigo SW
FW update	■ using Amigo SW and USBPROG	■ using MicroSD or using Amigo SW and USBPROG
SAFETY AND PROTECTION FUNCTIONS		
Emergency stop	■	■
Safe closing (inversion)	■	■
Safety Test Facility (for automatic safety devices)	■	■
ODS – Obstacle Detection System (causes the gate to stop or to reverse movement when an obstacle is detected)	■	■
NIO - Antifreeze system	■	■
OPTIONAL ACCESSORIES		
Battery continuity operation	■ with SBU	■ with SBU
Possibility of integrated batteries in the control panel		■
Stand-alone solar-powered installation		■ with SBU*
Hybrid solar-powered installation		■ with SBU
8.2 KΩ-resistance safety edge	■ with GOPAV	■ with GOPAV
Magnetic loop detector	■ with LAB9	■ with LAB9

* With SBU it is possible to use photovoltaic panels up to max 20 W to recharge the batteries.
The battery recharging time and the number of possible operations depend on the irradiation conditions

Ditec FACIL

Automation for swing gates up to 2.3 - 5 m wide wing

Ditec FACIL is available in two irreversible versions: one with a built-in control unit and one without a control unit.
The **ABS casing** offers a greater resistance to atmospheric agents.
The shape of the articulated arm and the way it is attached to the casing have been designed to avoid any shearing problems.
The automation system is fitted with **adjustable open-close mechanical stops**.

Irreversible electromechanical actuators for up to 2.3 m wing

Article Code	Description of Article
NA**FACIL3TH**	Irreversible electromechanical actuator, for intensive use, 24 Vdc motor, for up to 2.3 m wing complete with pre-wired transformer and support bracket for LCU30HFC control unit
NA**FACIL3H**	Irreversible electromechanical actuator, for intensive use, **24 Vdc** motor, for up to 2.3 m wing

DO IT - Set for double swing gate

Content: 1 FACIL3TH actuator + 1 LCU30HFC electronic board in plastic cover with RCB50E bi-frequency 433/868 MHz radio receiver module + 1 FACIL3H actuator + 2 rolling code remote control 2-Ch (1xZEN2 + 1xZEN2W) + 1 pair of LIN2 photocells + 1 FL24 flashing light complete with aerial and 5 m long coaxial cable + E409B warning panel

Article Code	Description of Article
NA**DOITFCL**	Complete set for double wing swing gates up to 4.6 m (2.3 m + 2.3 m)

Simplified DO IT - Set for double swing gate

Content: 1 FACIL3TH actuator + 1 LCU30HFC electronic board in plastic cover with RCB50E bi-frequency 433/868 MHz radio receiver module + 1 FACIL3H actuator + 2 rolling code remote control 2Ch (1xZEN2 + 1xZEN2W) + 1 pair of LIN2 photocells + 1 E409B warning panel

Article Code	Description of Article
NA**DOITFCLS**	Simplified set for double wing swing gates up to 4.6 m (2.3 m + 2.3 m)

Electronic board and control panels

Article Code	Description of Article
NA**LCU30HFC**	Electronic control unit in plastic cover for FACIL3TH motor with RCB50E dual-frequency 433/868 MHz radio receiver
NA**LCU30H**-NA**LCU30HJ***	For one or two **24 Vdc** / 2 x 6 A max motors with RCB50E dual-frequency 433/868 MHz radio receiver
NA**LCU40H**-NA**LCU40HJ***	For one or two **24 Vdc** / 2 x 12 A max motors with RCB50E dual-frequency 433/868 MHz radio receiver

*J version for 120 Vac power supply

Specific accessories

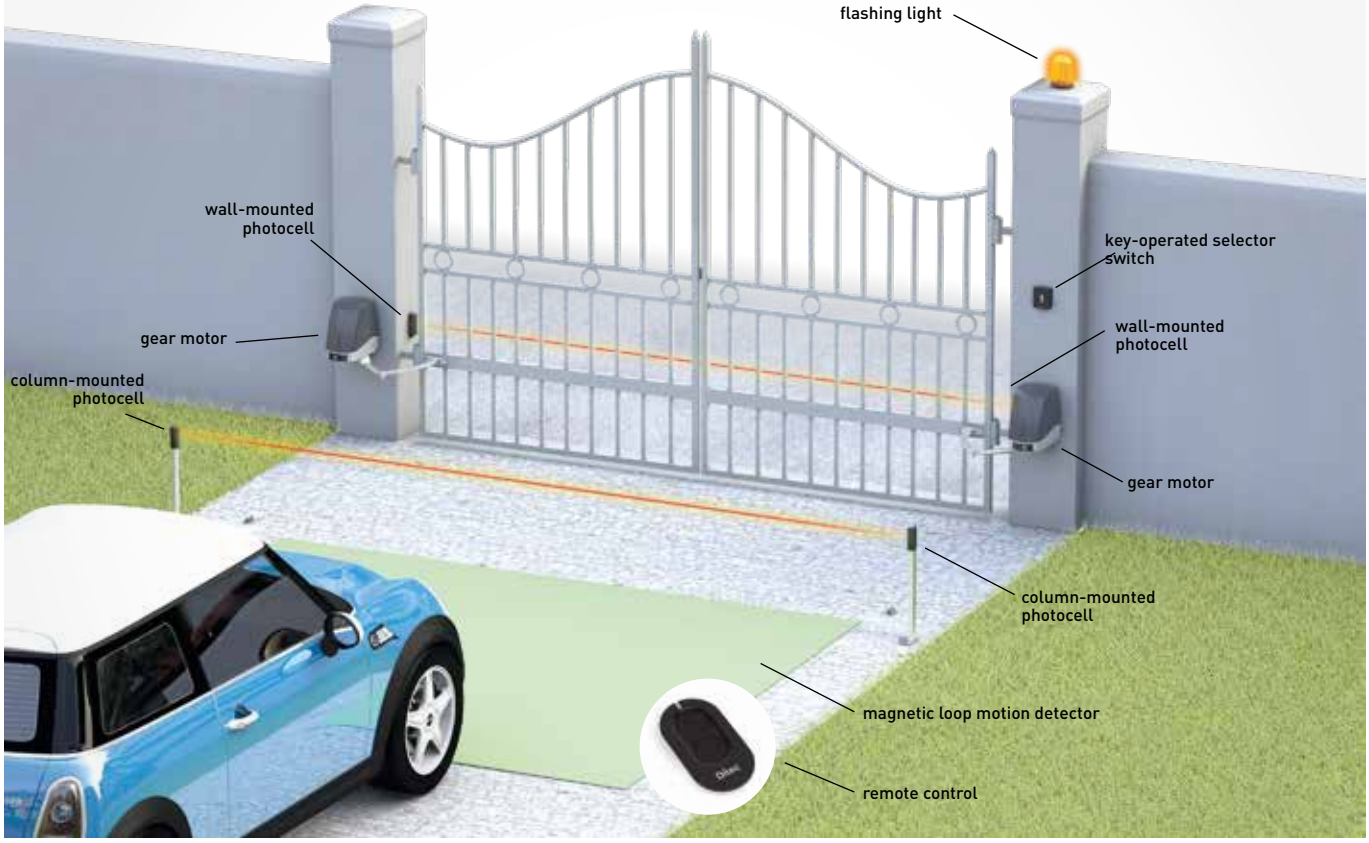
Article Code	Description of Article
NA**FACILBD**	Straight arm
NA**BOXFC1**	Limit switch unit
NA**DEB04**	Remote release key-operated handle with lanyard L 5 m, complete with specific brackets for FACIL

FACILBD

BOXFC1

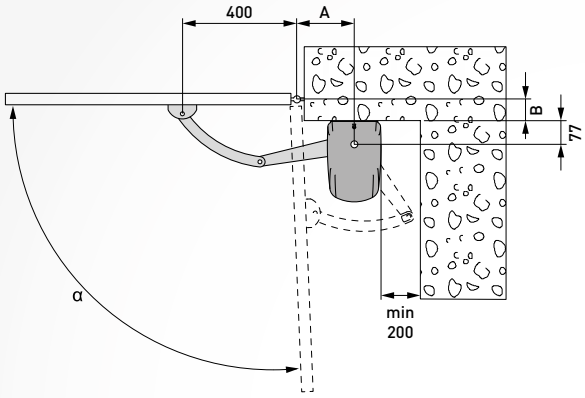
DEB04

Ditec FACIL - Typical configuration



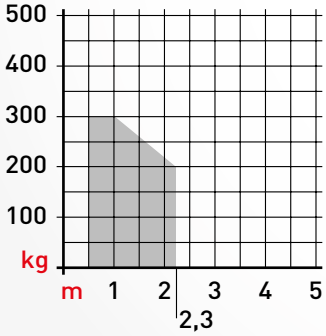
The automation system can be completed with Ditec command, control and safety devices.
■ radio controls > page 86 ■ switches > page 92 ■ photocells > page 96 ■ flashing lights > page 98 ■ safety edges > page 99

Installation measurements



B (mm)	A (mm)								
	120	130	140	150	160	170	180	190	200
0	90°	90°	95°	95°	100°	100°	105°	105°	110°
50	90°	90°	95°	95°	95°	95°	95°	95°	95°
100	90°	90°	90°	90°	90°	90°	90°	90°	/
150	90°	90°	90°	90°	90°	90°	90°	/	/
200	90°	90°	90°	90°	90°	/	/	/	/

Operation Limits



Dimensions

Ditec ARC

Ditec ARC is the articulated arm automation system suitable for large pillars that may even be out-of-plumb.
Safe: The 24 Vdc motor with a virtual encoder provides constant adjustment of the force of impact and immediate detection of obstructions.
Sturdy: suitable for gates with wing up to 5 m wide or weighing up to 500 kg.
Versatile: the automation system is suitable for opening to an angle of up to 130°, it has an optional remote-operated release system and an optional plate for lateral installation.

SAFE 24V VIRTUAL ENCODER ROBUST VERSATILE SETTING

Product range

For wing up to 2.5 m	For wing up to 5 m
Ditec ARC BH	Ditec ARC 1BH

Technical specifications

Description	ARC BH	ARC 1BH
Electromechanical actuator	irreversible for up to 2.5 m wide wing	irreversible for up to 5 m wide wing
Stroke control	rotary limit switch (optional)	rotary limit switch (optional)
Maximum capacity	200 kg x 2 m 150 kg x 2.5 m	500 kg x 3 m 250 kg x 5 m
Service index	intensive	intensive
Intermittent operation	S2 = 30 min S3 = 50%	S2 = 30 min S3 = 50%
Power absorption	24 Vdc	24 Vdc
Power input	3 A	12 A
Torque	150 Nm	300 Nm
Opening time	12÷100 s/90°	09÷50 s/90°
Actuator maximum opening	130°	130°
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 level	IP 54	IP 54
Product dimensions (mm)	374x130x150	374x130x150
Weight	13,9	13,9
Control panel	LCU30H - LCU30HJ* LCU40H - LCU40HJ*	LCU40H - LCU40HJ*

*J version 120 Vac power supply

	ARC BH	ARC BH, ARC 1BH
TECHNICAL FEATURES		
Control panel	LCU30H for 1 or 2 24 Vdc motors	LCU40H for 1 or 2 24 Vdc motors
Radio module	RCB50E	RCB50E
Radio frequency	433,92 (default) 868,35 Mhz (selectable from jumper)	433,92 (default) 868,35 Mhz (selectable from jumper)
Number of motors	1 or 2	1 or 2
Mains power supply	230 Vac or 120 Vac - 50/60 Hz	230 Vac or 120 Vac - 50/60 Hz
Motor power supply	24 Vdc - 2 x 6 A	24 Vdc - 2 x 12 A
Accessories power supply	24 Vdc - 0.3 A (0.5 A max.)	24 Vdc - 0.5 A
Stroke control	virtual encoder	virtual encoder
Limit switch provision	■	■
Operating temperature	-20°C ÷ +55°C in standard conditions (-35°C ÷ +55°C with NIO enabled)	
Control panel protection level	IP55	IP55
Control panel dimensions (mm)	187x261x105	238x357x120
INPUTS		
Opening control	shared with step-by-step control, selected via 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	■
Step-by-step control	■	■
Hold-to-run control	■ selected via display	■
Automatic closing contact management	shared with partial opening control, selected via display	■
OUTPUTS		
Flashing light	24 Vdc	24 Vdc
Electrically operated lock	12 Vdc / 15 W	12 Vdc / 15 W
Gate-open warning light (ON/OFF)	■ shared with electrically operated lock or flashing light	■
Gate-open warning light with proportional blink rate	■ shared with electrically operated lock or flashing light	■
Courtesy light	■ shared with electrically operated lock or flashing light	■ shared with electrically operated lock or flashing light
PROGRAMMABLE FUNCTIONS		
Configuration of programmable functions	display and navigation keys	display and navigation keys
Force adjustment	electronic	electronic
Speed	adjustable	adjustable
Soft Start/Soft Stop	adjustable	adjustable
Braking/Slowing down	adjustable	adjustable
Stop approach	adjustable	adjustable
Operation time	adjustable	adjustable
Automatic re-closing time	adjustable	adjustable
Integrated datalogging (counters and recent alarm history)	■ can be viewed on display	■ can be viewed on display and on a PC with Amigo SW
Extended datalogging with micro SD (in-depth records for every event)		■ can be viewed on a PC Amigo SW
FW update	■ using Amigo SW and USBPROG	■ using MicroSD or using Amigo SW and USBPROG
SAFETY AND PROTECTION FUNCTIONS		
Emergency stop	■	■
Safe closing (inversion)	■	■
Safety Test Facility (for automatic safety devices)	■	■
ODS – Obstacle Detection System (causes the gate to stop or to reverse movement when an obstacle is detected)	■	■
NIO - Antifreeze system	■	■
OPTIONAL ACCESSORIES		
Battery continuity operation	■ with SBU	■ with SBU
Possibility of integrated batteries in the control panel		■
Stand-alone solar-powered installation		■ with SBU*
Hybrid solar-powered installation		■ with SBU
8.2 KΩ-resistance safety edge	■ with GOPAV	■ with GOPAV
Magnetic loop detector	■ with LAB9	■ with LAB9

* With SBU it is possible to use photovoltaic panels up to max 20 W to recharge the batteries.
The battery recharging time and the number of possible operations depend on the irradiation conditions

Ditec ARC

Automation for swing gates up to 5 m wide wing

Ditec ARC is available in two versions depending on the length of the wing. Thanks to its virtual encoder control units it is possible to achieve accurate **speed setting** with the possibility to configure slowdowns and startups, avoiding mechanical stress during closing or opening.
In the event of a temporary power outage, there is the possibility to connect to **batteries**, to guarantee continued operation and enable the system a large number of operations while the electricity supply is being restored.

Irreversible electromechanical actuators for 2.5 - 5 m wide wing

Article Code	Description of Article
NA**ARCBH**	Irreversible electromechanical actuator, for intensive use, **24 Vdc** motor, for up to 2.5 m wing
NA**ARC1BH**	Irreversible electromechanical actuator, for intensive use, **24 Vdc** motor, for up to 5 m wing

Control panels

Article Code	Description of Article
NA**LCU30H** NA**LCU30HJ***	For one or two **24 Vdc** / 2 x 6 A max motors with RCB50E dual-frequency 433/868 MHz radio receiver
NA**LCU40H** NA**LCU40HJ***	For one or two **24 Vdc** / 2 x 12 A max motors with RCB50E dual-frequency 433/868 MHz radio receiver

*J version 120 Vac power supply

Specific accessories

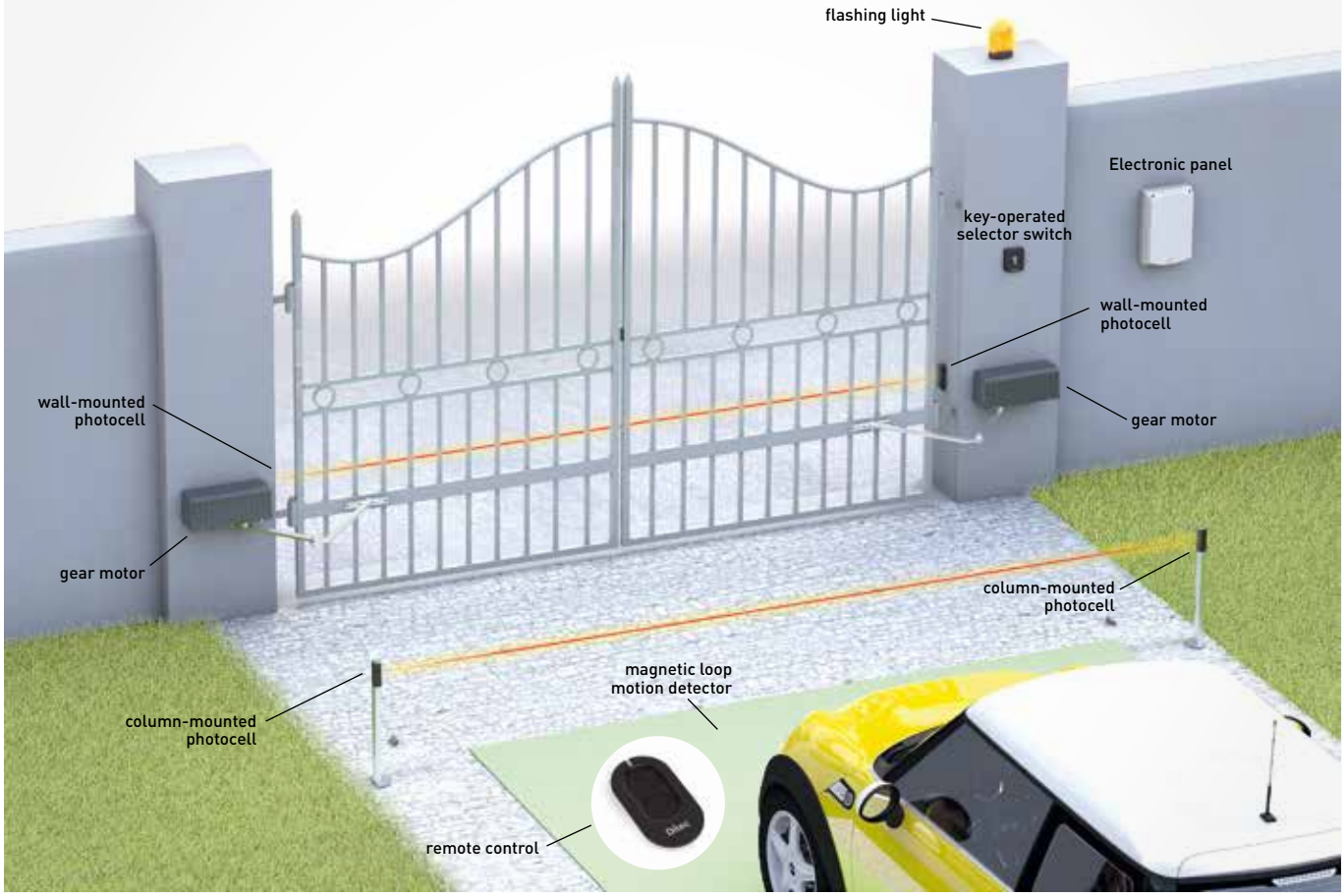
Article Code	Description of Article
NA**ARCPL**	Gear motor side fastening plate
NA**ARCFB**	Adjustable stop
NA**BOXFC1**	Limit switch unit
NA**DEB04**	Remote release key-operated handle with lanyard L 5 m, complete with specific brackets for ARC

ARCPL **ARCFB**

BOXFC1

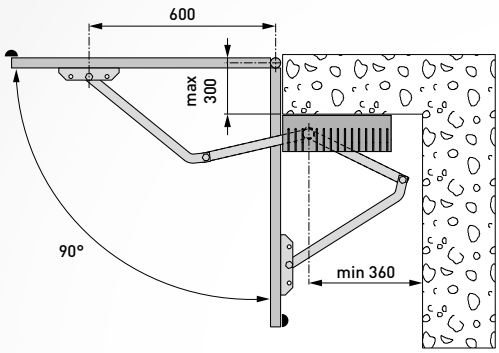
DEB04

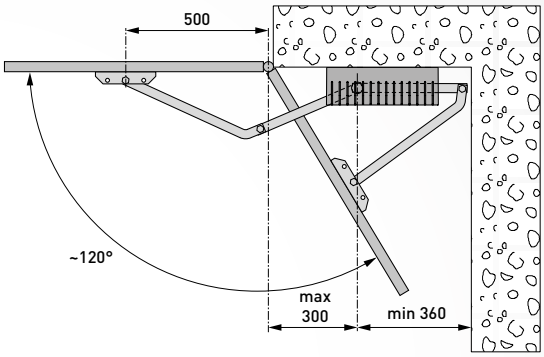
Ditec ARC - Typical configuration



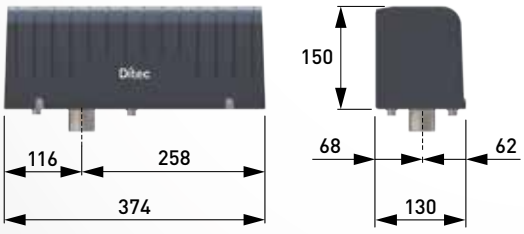
The automation system can be completed with Ditec command, control and safety devices.
■ radio controls > page 86 ■ switches > page 92 ■ photocells > page 96 ■ flashing lights > page 98 ■ safety edges > page 99

Installation measurements

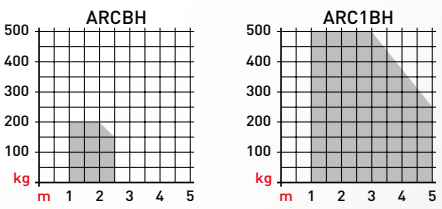




Dimensions



Operation Limits



UNDERGROUND AUTOMATION SYSTEM FOR SWING GATES

Ditec CUBIC

Ditec CUBIC is the underground automation system for swing gates with wing up to 4 m or weighing up to 800 kg.
Complete line: a 230 Vac version and two 24 Vdc versions. A fast model for of up to 2 m wide wing which opens up in 6 seconds (at 90°) is also available. There are two types of foundation casing and lever systems which can handle wings up to 4 m and open up to 180°.
Safe: The 24 Volt DC motor with a virtual encoder allows for constant adjustment of the force of impact and immediate detection of obstructions. Limit switch as standard or optional magnetic limit switch.
Robust and reliable: the foundation casing is available with a protective cataphoresis treatment or in stainless steel.

COMPLETE RANGE

SAFE 24V VIRTUAL ENCODER

RELIABLE AND STURDY

Product range

	For wing up to 2 m	For wing up to 2.5 m	For wing up to 3.5 m	For wing up to 4 m
110° opening	CUBIC6HV* with CUBIC6L linkage unit	CUBIC6HV* with CUBIC6LG linkage unit	CUBIC6-CUBIC6H with CUBIC6L linkage unit	CUBIC6-CUBIC6H with CUBIC6LG linkage unit
	For wing up to 2.3 m			
180° opening	CUBIC6-CUBIC6H with CUBIC6TC linkage unit			

* rapid version

For more information see page 44

Technical specifications

Description	CUBIC 6	CUBIC 6H	CUBIC 6HV
Electromechanical actuator	irreversible for up to 4 m wide wing	irreversible for up to 4 m wide wing	irreversible for up to 2.5 m wide wing
Stroke control	magnetic limit switch (optional)	magnetic limit switch (optional)	magnetic limit switch (optional)
Maximum capacity	800 kg x 2 m 350 kg x 4 m	800 kg x 2 m 350 kg x 4 m	350 kg x 1 m 200 kg x 2.5 m
Service index	frequent	intensive	intensive
Intermittent operation	S2 = 15 min S3 = 25%	S2 = 30 min S3 = 50%	S2 = 30 min S3 = 50%
Power supply	230 Vac - 50 Hz	24 Vdc	24 Vdc
Power input	1.5 A	12 A	12 A
Torque	340 Nm	340 Nm	220 Nm
Opening time	18 s/90°	12÷45 s/90° with CUBIC6L 15÷55 s/90° with CUBIC6LG	6÷25 s/90° with CUBIC6L 8÷30 s/90° with CUBIC6LG
Actuator maximum opening	110° or 180°	110° or 180°	110°
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 degree	IP 67	IP 67	IP 67
Weight (kg)	11.03	12.88	12.81
Control panel	LCA70 LCA80	LCU40H - LCU40HJ*	LCU40H - LCU40HJ*

*J version 120 Vac power supply

	CUBIC 6	CUBIC 6	CUBIC 6H-6HV
TECHNICAL FEATURES			
Control panel	LCA70 for 1 or 2 230 Vac motors	LCA80 for 1 or 2 230 Vac motors	ref. LCU40H for 1 or 2 24 Vdc motors
Radio module	RCB50E	RCB50E (optional)	RCB50E
Radio frequency	433,92 (default) 868,35 Mhz (selectable from jumper)	433,92 (default) 868,35 Mhz (selectable from jumper)	433,92 (default) 868,35 Mhz (selectable from jumper)
Mains power supply	230 Vac - 50/60 Hz	230 Vac - 50/60 Hz	230 Vac - 50/60 Hz
Motor power supply	230 Vac; 2 x 2A; 1 x 4 A	230 Vac; 2 x 2A; 1 x 4 A	24 Vdc - 2 x 12 A
Accessories power supply	24 Vdc + 24 Vac - 0,3 A	24 Vdc + 24 Vac - 0,5 A	24 Vdc - 0.5 A
Stroke control	end stop detection and time calculation		virtual encoder
Limit switch provision		■	■
Operating temperature	-20°C ÷ +55°C in standard conditions (-35°C ÷ +55°C with NIO enabled)		
Control panel protection level	IP55	IP55	IP55
Control panel dimensions (mm)	187x261x105	187x261x105	238x357x120
INPUTS			
Opening control	shared with step-by-step control, which can be selected via 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	■	■
Step-by-step control	■	■	■
Hold-to-run control	■	■	■
Automatic closing contact management	shared with partial opening control, selected via display	■	■
OUTPUTS			
Flashing light	230 Vac 25 W max	230 Vac 25 W max	24 Vdc
Electrically operated lock	12 Vac 15 W max	12 Vac 15 W max	12 Vdc / 15 W
24 Vdc number of configurable outputs	1	2	1
-gate-open warning light (ON/OFF)	■	■	■
-gate-open warning light with proportional blink rate	■	■	■
-courtesy light	■	■	yes, shared with electrically operated lock or flashing light
- 24 Vdc led flashing light	■	■	■
PROGRAMMABLE FUNCTIONS			
Configuration of programmable functions	display and navigation keys	display and navigation keys	display and navigation keys
Force adjustment	■ (electronic)	■ (electronic)	■ (electronic)
Speed			adjustable
Approach speed	adjustable	adjustable	
Soft Start/Soft Stop			adjustable
Thrust on obstructions	adjustable	adjustable	adjustable
Braking/Slowing down	adjustable	adjustable	adjustable
Stop approach	adjustable	adjustable	adjustable
Operation time	adjustable	adjustable	adjustable
Automatic re-closing time	adjustable	adjustable	adjustable
Compatibility with hydraulic motors	■	■	
Heavy traffic management	■	■	
Integrated datalogging (counters and recent alarm history)	■ visualizzabile su display	■ visualizzabile su display	■ can be viewed on the display and on a PC with Amigo SW
Extended datalogging with micro SD (in-depth records for every event)			■ can be viewed on a PC with Amigo SW
FW update	■ using Amigo SW and USBPROG	■ using Amigo SW and USBPROG	■ using MicroSD or using Amigo SW and USBPROG
SAFETY AND PROTECTION FUNCTIONS			
Emergency stop	■	■	■
Safe closing (inversion)	■	■	■
Safety Test Facility (for automatic safety devices)	■	■	■
ODS – Obstacle Detection System (causes the gate to stop or to reverse movement when an obstacle is detected)	■	■	■
NIO - Antifreeze system	■	■	■
OPTIONAL ACCESSORIES			
Battery continuity operation			■ with SBU
Provision for control-panel integrated batteries			■
Stand-alone solar-powered installation			■ with SBU*
Hybrid solar-powered installation			■ with SBU
8.2 KΩ-resistance safety edge	■ with GOPAV	■ during opening and closing (terminal connectors already integrated in the control panel)	■ with GOPAV
Magnetic loop detector	■ with LAB9	■ with LAB9	■ with LAB9

* With SBU it is possible to use photovoltaic panels up to max 20 W to recharge the batteries.
The battery recharging time and the number of possible operations depend on the irradiation conditions

Ditec CUBIC

Underground automation system for swing gates up to 4 m wide wing

Ditec CUBIC does not create any aesthetic disturbance: this automation system is ideal for main entrance prestige doors or gates in buildings of a certain or particular architectural value or historical relevance or wherever any interference with style, aesthetics, and elegance must be avoided.
Simple and functional, this is an **underground system** made up of an underground foundation casing made of stainless steel with anti-rust treatment (cataphoresis), where one gear motor and a mechanical lever system are placed.
The gear motor and the lever systems (CUBIC6L / CUBIC6LG) can handle gate wing of various sizes and opening angle up to 110°. The chain operated linkage unit (CUBIC6TC) can handle an opening angle up to 180°.

Irreversible electromechanical actuators for wing up to 3.5 m with linkage unit for small foundation casing or wing up to 4 m with linkage unit for large foundation casing

Article Code	Description of Article
NA**CUBIC6**	Irreversible electromechanical actuator, for frequent use, 230 Vac motor with built-in limit switch
NA**CUBIC6H**	Irreversible electromechanical actuator, for intensive use, **24 Vdc** motor with built-in limit switch

Fast and irreversible electromechanical actuators for wing up to 2 m with linkage unit for small foundation casing or wing up to 2.5 m with linkage unit for large foundation casing

Article Code	Description of Article
NA**CUBIC6HV**	Fast, irreversible electromechanical actuator, for intensive use, **24 Vdc** motor with built-in limit switch

Small foundation casings and linkage

Article Code	Description of Article
NA**DITCBC**	1 CUBIC6C small foundation casing + 1 CUBIC6L linkage unit + 1 CUBIC6SBL lever-operated release system, for wing up to 3,5 m
NA**CUBIC6C**	Small foundation casing with built-in cover
NA**CUBIC6CM**	Small foundation casing with built-in stainless steel cover
NA**CUBIC6CY**	Small stainless steel foundation casing with built-in stainless steel cover
NA**CUBIC6L**	Linkage unit with 110° opening angle; the release system may be operated from both sides (with CUBIC6SBL lever or with CUBIC6SBD key)
NA**CUBIC6TC**	Chain operated linkage unit for 180° opening angle

Large foundation casings and linkage

Article Code	Description of Article
NA**CUBIC6CG**	Large foundation casing with built-in cover
NA**CUBIC6LG**	Linkage unit with 110° opening angle, the release system may be operated from both side (with a CUBIC6SBL lever or with a CUBIC6SBD key), for a large foundation casing

DO IT - Set 230 Vac for double wing swing gates

Content: 2 CUBIC6 gear motors + 1 LCA70 control panel with RCB50E bi-frequency 433/868 MHz radio receiver + 1 pair of LIN2 photocells + 2 rolling code remote control 2-Ch (1xZEN2 + 1xZEN2W) + 1 FLM flashing light complete with aerial and 5 m long coaxial cable + E409B warning panel

Article Code	Description of Article
NA**DITCB230PL**	Complete 230 Vac set for double wing swing gates up to 8 m (4 m + 4 m) - foundation casing, linkage unit and release system not included

Simplified DO IT - Set 230 Vac for double wing swing gates

Content: 2 CUBIC6 gear motors + 1 LCA70 control panel with RCB50E bi-frequency 433/868 MHz radio receiver + 1 pair of LIN2 photocells + 2 rolling code remote control 2-Ch (1xZEN2 + 1xZEN2W) + E409B warning panel

Article Code	Description of Article
NA**DITCB230PLS**	Simplified 230 Vac set for double wing swing gates up to 8 m (4 m + 4 m) - foundation casing, linkage unit and release system not included

DO IT - Set 24 Vdc for double wing swing gates

Content: 2 CUBIC6H gear motors + 1 LCU40H control panel with RCB50E bi-frequency 433/868 MHz radio receiver + 1 pair of LIN2 photocells + 2 rolling code remote control 2-Ch (1xZEN2 + 1xZEN2W) + 1 FL24 flashing light complete with aerial and 5 m long coaxial cable + E409B warning panel

Article Code	Description of Article
NA**DITCB24L**	Complete **24 Vdc** set for double wing swing gates up to 8 m (4 m + 4 m) - foundation casing, linkage unit and release system not included

Simplified DO IT - Set 24 Vdc for double wing swing gates

Content: 2 CUBIC6H gear motors + 1 LCU40H control panel with RCB50E bi-frequency 433/868 MHz radio receiver + 1 pair of LIN2 photocells + 2 rolling code remote control 2-Ch (1xZEN2 + 1xZEN2W) + E409B warning panel

Article Code	Description of Article
NA**DITCB24LS**	Simplified **24 Vdc** set for double wing swing gates up to 8 m (4 m + 4 m) - foundation casing, linkage unit and release system not included

Control panels 230 Vca - 24 Vcc complete with plastic box

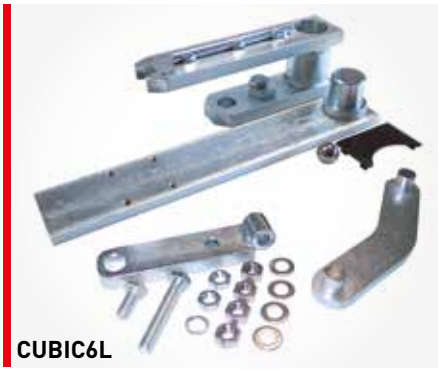
Article Code	Description of Article
NA**LCA70**	For 1 or 2 230 Vac motors, 1 x 4 A, 2 x 2 A. RCB50E dual-frequency 433/868 MHz radio receiver
NA**LCA80****	For 1 or 2 230 Vac motors, 1 x 4 A, 2 x 2 A. RCB50E dual-frequency 433/868 MHz radio receiver (not included)
NA**LCU40H**-NA**LCU40HJ***	For one or two **24 Vdc** / 2 x 12 A max motors with RCB50E dual-frequency 433/868 MHz radio receiver

*J version 120 Vac power supply

** available while stocks last

Specific accessories

Article Code	Description of Article
NA**CUBIC6FM**	Magnetic limit switches
NA**CUBIC6SBL**	Lever-operated release system
NA**CUBIC6SBD1**	DIN key-operated release system



CUBIC6L

CUBIC6TC

CUBIC6SBL

CUBIC6SBD1

CUBIC6FM

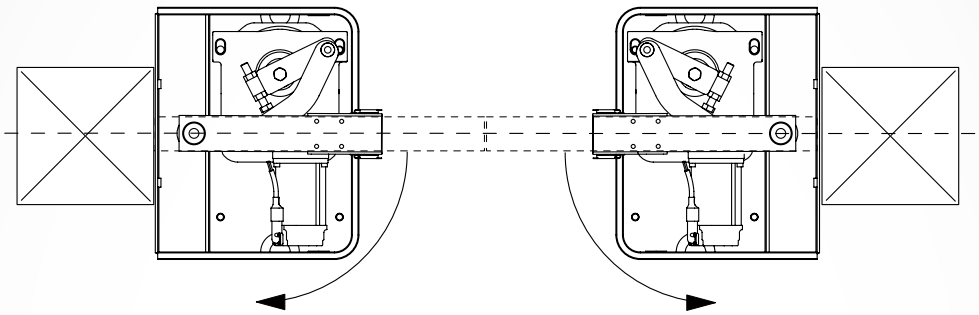
CUBIC6C

Guide for selecting the foundation casing and the linkage unit

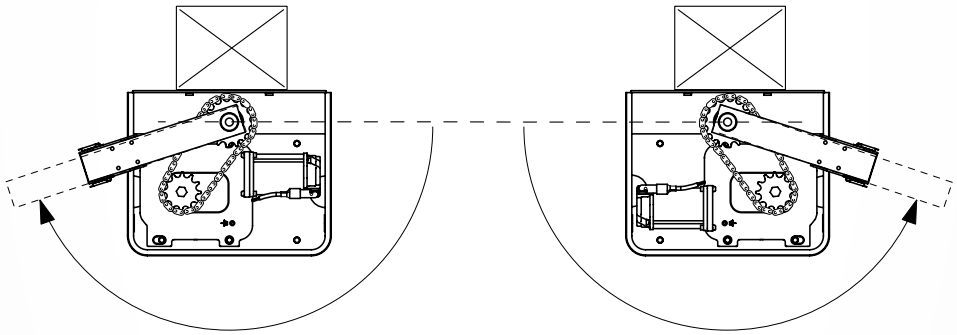
Motor	Foundation casing	Linkage unit	Max opening (m)
CUBIC6 CUBIC6H CUBIC6HV	Small foundation casing CUBIC6C CUBIC6CM CUBIC6CY	CUBIC6L	110°
		CUBIC6TC	180°
	Large foundation casing CUBIC6CG	CUBIC6LG	110°

Opening system

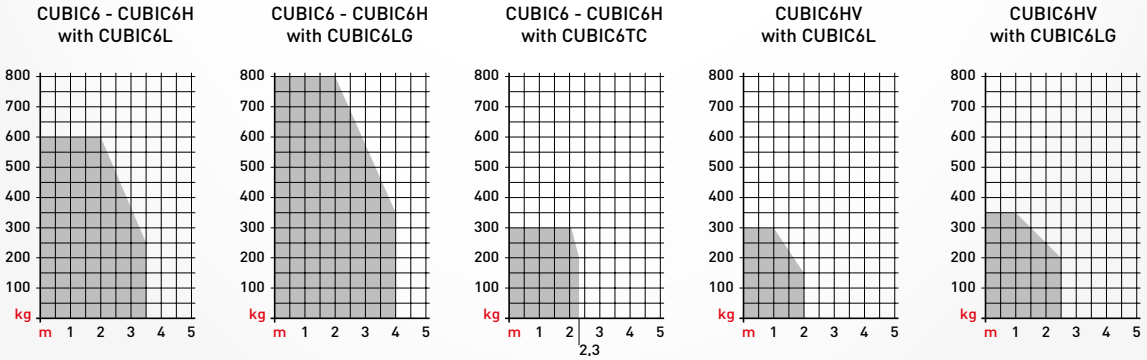
Maximum opening 110° with CUBIC6L and CUBIC6LG



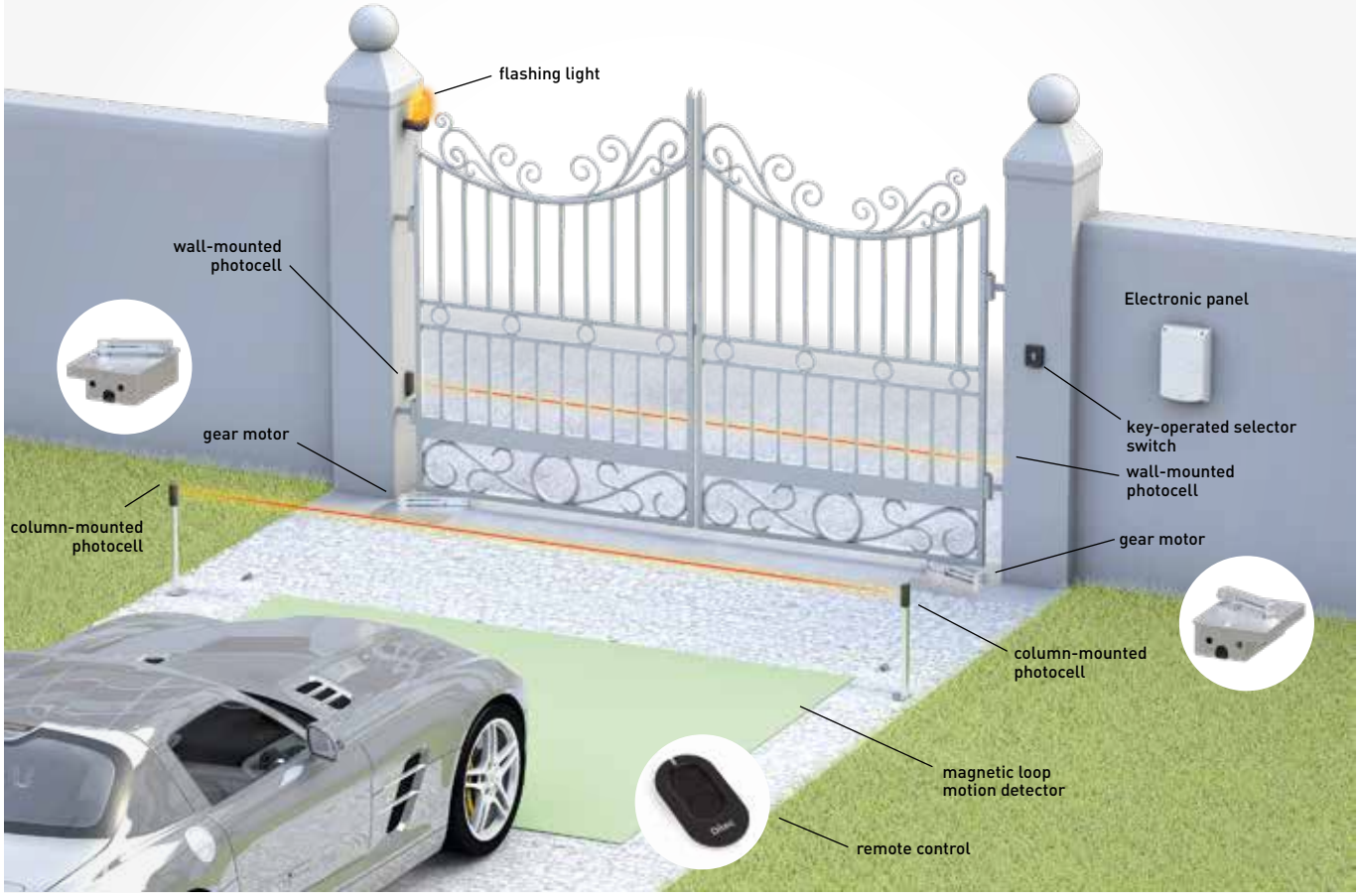
Maximum opening 180° with CUBIC6TC



Operation Limits

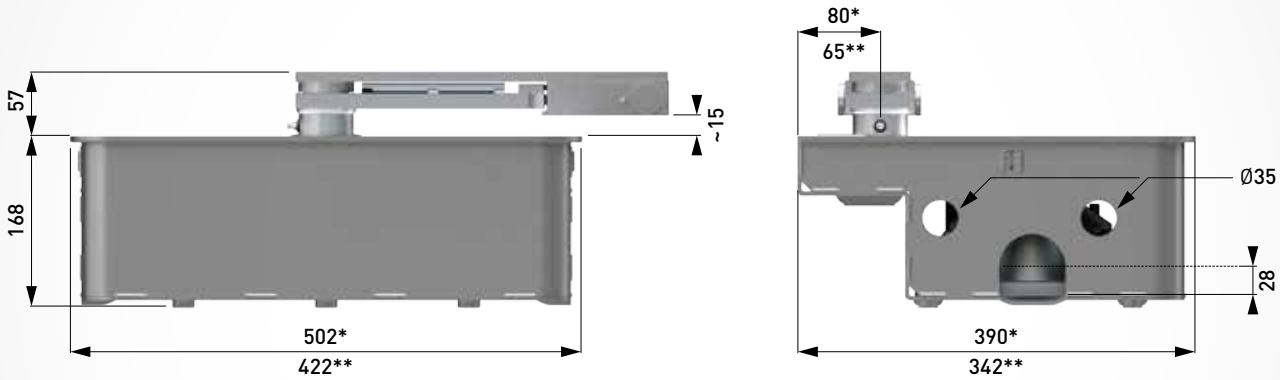


Ditec CUBIC 6 - Typical configuration



The automation system can be completed with Ditec command, control and safety devices.
■ radio controls > page 86 ■ switches > page 92 ■ photocells > page 96 ■ flashing lights > page 98 ■ safety edges > page 99

Dimensions



*Ditec CUBIC6CG **Ditec CUBIC6C - CUBIC6CM - CUBIC6CY


Ditec

03

AUTOMATION SYSTEMS FOR GARAGE DOORS AND INDUSTRIAL PLANTS

AUTOMATION SYSTEMS FOR UP-AND-OVER DOORS

Ditec BOX B

with counterweights up to 12 m^2

AUTOMATION SYSTEMS FOR SECTIONAL DOORS

Ditec AIR

up to 200 kg weight and 17 m^2

AUTOMATION FOR COUNTERWEIGHTED INDUSTRIAL DOORS

Ditec DOD 14

single-phase, up to 60 Nm

Ditec NRG

three-phase, up to 140 Nm

AUTOMATION FOR FOLDING DOORS

Ditec DOR

up to 500 Kg weight

AUTOMATION SYSTEMS
FOR UP-AND-OVER DOORS
WITH COUNTERWEIGHTS

Ditec BOX B

Ditec BOX B automatise des portes jusqu'à 7 m² avec un seul opérateur et jusqu'à 12 m² avec 2 moteurs en parallèle.
Smart: with the Ditec SMART CONNECT PRO app, you can quickly configure automation parameters, monitor its efficiency, and receive notifications for maintenance, all in just a few clicks. Local control via Bluetooth and remote control via Wi-Fi (from end of 2025)
Économie d'énergie : conforme à la nouvelle réglementation européenne 2023/826/EU, Ditec BOX B minimise la consommation en veille : <0,8W avec l'écran et Bluetooth actifs. Alimentation à découpage et panneau de commande très efficaces.
Sûr : technologie d'encodage 24 Vdc pour un contrôle électronique constant des forces d'impact et une détection immédiate des obstacles assurant l'arrêt ou l'inversion du mouvement (si configuré), ainsi que le réglage des vitesses d'ouverture et de fermeture.

SMART SAFE 24V ENCODER READY TO USE

Technical specifications

Description	BOX 3BH
Electromechanical actuator	for up-and-over doors with counterweight
Stroke control	virtual encoder + cam limit switch
Maximum capacity	7 m² (1 motor) 12 m² (2 motors in parallel)
Service index	frequent
Intermittent operation	S2 = 40 min S3 = 60% (T = 25°C)
Cycles / hour *	49 (T= 25°C)
Consecutive cycles *	50 (T= 25°C)
Power supply	100-120 Vca / 200-240 Vca (selectable by switch) - 50/60 Hz

Power absorption	24 Vdc
Power input	8 A
Torque	300 Nm
Opening time	12 ÷ 50 s
Release system for manual opening	lever/key
Operating temperature	-20°C ÷ +55°C
Protection level	IP 40
Product dimensions (mm)	654x108x116
Weight (kg)	11.4
Control panel	LCU55 (built-in)

* Indicative cycles considering a time for opening maneuver (22 sec), closing (22 sec) and pause time (15 sec). Full cycle time of 74 sec.
** Indicative cycles considering a time for opening maneuver (22 sec), closing (22 sec) and pause time (1 sec). Full cycle time of 46 sec.

BOXB2C - BOXB2D

BOXRCG

BOXSL

BOXSBC

BOXFC1

BOXBUG

	BOX 3BH
TECHNICAL SPECIFICATIONS	
Control panel	LCU55 built-in
Radio module	RCB100E
Radio frequency	433,92 (default) - 868,35 Mhz selectable from display)
Bluetooth	built-in in the radio module
Accessories power supply	24 Vdc / 0.5 A
Limit switch provision	■
Energy saving	with display and Bluetooth active
Operating temperature	-20°C + 55°C in standard conditions (-35°C ÷ +55°C with NIO enabled)
INPUTS	
Opening control	shared with step-by-step control, selected with display
Partial opening control	■
Close control	shared with emergency stop, selected with display
Stop control	■ or by radio
Step-by-step control	■
Hold-to-run control	■
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	
Number of 24 Vdc outputs	2
- Flashing light	24 Vdc
- Electrically operated lock	■
- Gate-open warning (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	■ via SW FlashIT and USBPROG or via App
SAFETY AND PROTECTION FUNCTIONS	
Emergency stop	■
Safe closing (inversion)	■
Automatic force adjustment during movement	■
ODS – Obstacle detection system (causes the gate to stop or to reverse movement when an obstruction is detected)	■
Execution methods for force detection tests in accordance with EN 13241-1	■
OPTIONAL ACCESSORIES	
Battery	■ with BBK750X2
Emergency release	■ with BOXSBC
8.2 KΩ-resistance safety edge	■ with GOPAV
Magnetic loop detector	■ with LAB9

Ditec BOX B

Electromechanical automation systems fitted to curtain for up-and-over door with counterweights up to 12 m²

Ditec BOX B moves both counterweighted overhead doors with standard curtain and fully recessed or articulated doors. It ensures quick installation and maintenance thanks to the self-learning procedure, integrated display and **Ditec GATE CONNECT PRO** App, which make configuration simple and immediate. With the **Ditec GATE CONNECT App**, the customer can manage the automation both locally and remotely and control accesses

Ready to use: comes with courtesy light, fixing base and key release already pre-wired, integrated control panel with 433/868 MHz bi-frequency receiver and opening limit switches already mounted. On-board opening button

Versatile: manual release by internal lever or by key from outside. A deflection system via metal cord to be connected to the handle on the wing (optional) is also available.

DO IT - Set for up-and-over doors with counterweights up to 7 m²

Contents: 1 BOX3BH gear motor complete with courtesy light, fastening base and key-operated release system, internally pre-cabled with LCU55 control panel with RCB100E bi-frequency radio receiver module 433-868 MHz and built-in Bluetooth and pre-fitted BOXFC1 limit switch + on-board opening pushbutton + 1 rolling code remote control 4Ch 433 MHz (1xZEN4) + E409B warning panel

Article Code	Description of Article
NA**DOITBXBL**	Complete set for 24 Vdc

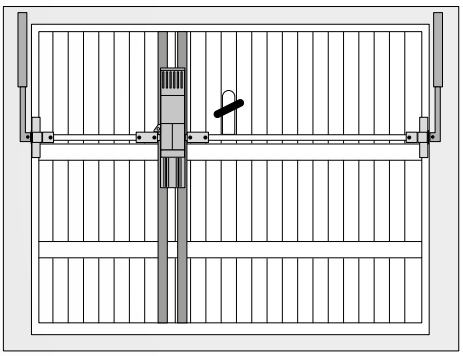
Additional actuator for up-and-over doors with counterweights up to 12 m²

Article Code	Description of Article
NA**BOX3H**	Second **24 Vdc** motor to add in parallel with DOITBXBL to move bigger doors

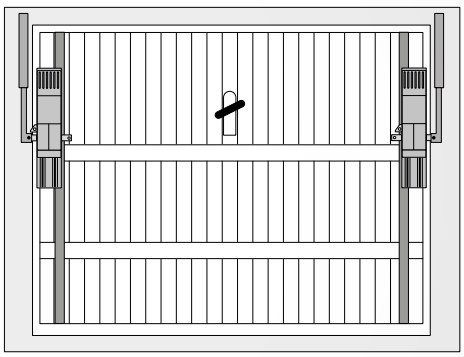
Specific accessories

Article Code	Description of Article
NA**BOXB2D**	Pair of straight arms
NA**BOXB2C**	Pair of curved arms
NA**BOXRCG**	Set of transmission accessories for central mounting (max curtain width 3.4 m)
NA**BOXSL**	Motor fastening base (length 2.5 m)
NA**BOXFC1**	Limit switch unit
NA**BOXBUG**	Grooved bush with dowel
NA**BOXSBC**	Cord-release system for connection to handle

Example of installation

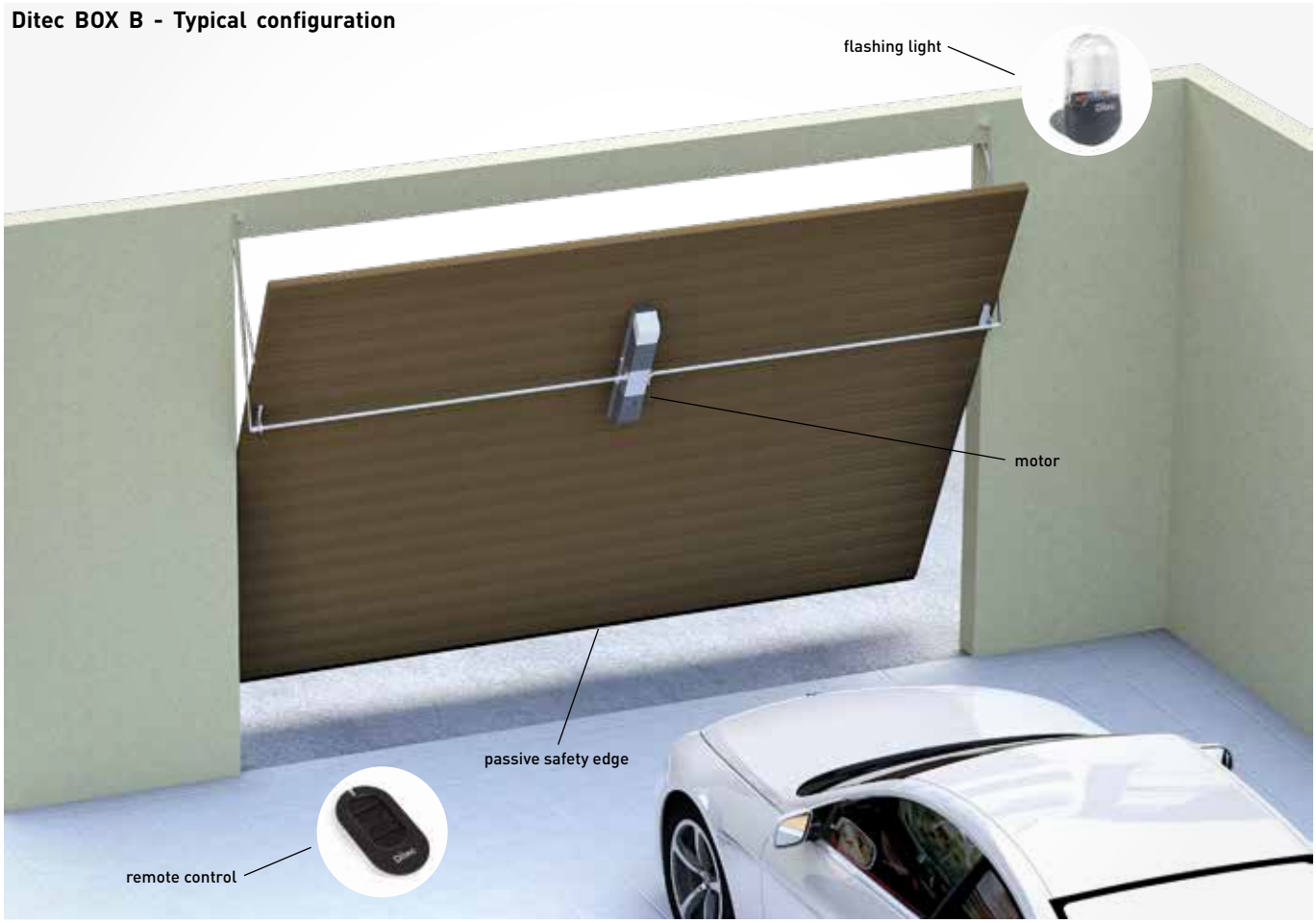


1 DOITBXBL + 1 BOXB2D + 1 BOXRCG
1 DOITBXBL + 1 BOXB2C + 1 BOXRCG



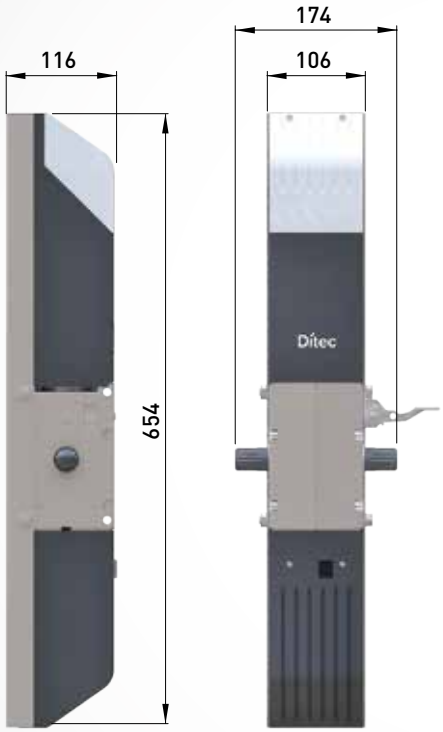
1 DOITBXBL + 1 BOX3H + 1 BOXB2D
1 DOITBXBL + 1 BOX3H + 1 BOXB2C

Ditec BOX B - Typical configuration

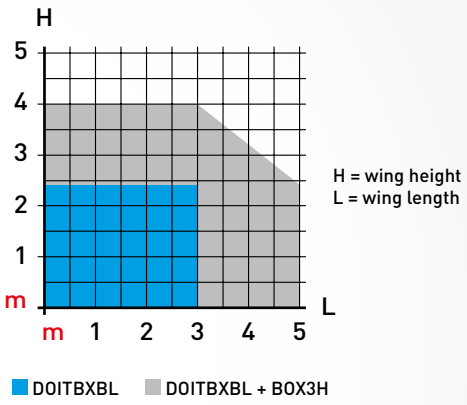


The automation system can be completed with Ditec command, control and safety devices.
■ radio controls > page 86 ■ switches > page 92 ■ photocells > page 96 ■ flashing lights > page 98 ■ safety edges > page 99

Dimensions



Operation Limits



Ditec AIR

Ditec AIR is the new range of automations for sectional doors and counterweighted overhead doors that ensures reliable performance and maximum flexibility.
Full range: two 24 Vdc motors with 600 N and 1000 N thrusts that move doors up to 200 kg in weight and 17 m² in area.
Smart: Smart: with the Ditec SMART CONNECT PRO app, you can quickly configure automation parameters, monitor its efficiency, and receive notifications for maintenance, all in just a few clicks. Local control via Bluetooth and remote control via Wi-Fi (from end of 2025)
Energy saving: compliant with the new European Regulation 2023/826/EU, Ditec AIR minimizes standby power consumption: <0.6W for AIR600B and <0.8W for AIR1000B with display and Bluetooth active. Switching power supplies and new high-efficiency control panel.

COMPLETE RANGE

SMART

ENERGY SAVING

Product range

Door weight up to 130 kg	Door weight up to 200 kg
Ditec AIR 600 B	Ditec AIR 1000 B

Technical specifications

Description	AIR 600 B	AIR 1000 B
Electromechanical actuator	for sectional garage doors up to 130 kg	for sectional garage doors up to 200 kg
Transmission system	belt	belt
Stroke control	absolute encoder	absolute encoder
Maximum capacity	intensive tested up to 200,000 cycles	intensive tested up to 200,000 cycles
Service index	3 - frequent	3 - frequent
Intermittent operation	S2 = 60 min S3 = 75%	S2 = 60 min S3 = 75%
Cycles / hour *	70 cycles (T = 25°C)	70 cycles (T = 25°C)
Consecutive cycles *	100 cycles (T = 25°C)	100 cycles (T = 25°C)
Power supply	100-240 Vac 50/60 Hz	100-120 Vca / 200-240 Vca (selectable by switch) - 50/60 Hz
Power input	100 W	150 W
Motor power supply	24 Vdc	24 Vdc
Torque / Thrust	600 N	1000 N
Power	100 W	150 W
Opening speed	20 cm/s (adjustable 8-22 cm/s)	20 cm/s (adjustable 8-22 cm/s)
Closing speed	10 cm/s (adjustable 8-22 cm/s)	10 cm/s (adjustable 8-22 cm/s)
Operating temperature	-20°C ÷ +50°C	-20°C ÷ +50°C
Protection level	IP 20	IP 20
Product dimensions (mm)	350 x 250 x 145 mm	350 x 250 x 145 mm
Noise level	< 55 dB (operator only)	< 55 dB (operator only)
Weight (kg)	3.9	4
Control panel	LCU60E	LCU60E

*Indicative cycles considering a door h 2350 mm and factory settings (default speed opening 20 cm/s and closing 10 cm/s).
With higher speeds the number of cycles/hour increases. A cycle is considered an opening maneuver followed by a closing maneuver

	TS100X3 - TS150X2	TS100X4 - TS200X2
Track system length	3300 mm	4400 mm
Maximum carriage stroke	2875 mm	3975 mm
Maximum door height	2350 mm	3450 mm

	AIR600B - AIR1000B
TECHNICAL SPECIFICATIONS	
Control panel	built-in
Radio module	RCB100E
Radio frequency	433.92 MHz (default) - 868.35 MHz (selectable from display)
Bluetooth	built-in in the radio module
Motor power supply	24 Vdc - 9.5 A
Accessories power supply	24 Vdc - 0.3 A max 2 s 24 Vdc - 0.15 A continuous
Standby consumption according to European regulation 2023/826/EU	< 0.6 W for AIR600B - < 0.8 W for AIR1000B with Bluetooth and active display
Operating temperature	-20°C ÷ +55°C in standard conditions (-35°C ÷ +55°C with NIO enabled)
INPUTS	
Opening control	■
Partial opening control	■
Stop control	■
Step-by-step control	■
OUTPUTS	
Flashing light	■
Electrically operated lock	■ alternative to flashing light
Courtesy light	LED 1750 lms integrated
Gate-open warning light (ON/OFF)	■ alternative to flashing light
Gate-open warning light with proportional blink rate	■ alternative to flashing light
Wall station	■
PROGRAMMABLE FUNCTIONS	
Stroke control	■
Configuration of programmable functions	display and navigation keys Via App
Opening and closing thrust	■ adjustable
Speed	■ adjustable
Soft start / Soft stop	■
Operation time	■ adjustable
Automatic re-closing time	■ adjustable
Cycles counter for maintenance scheduling	■
Pre-flashing time in opening and closing	■ adjustable
Integrated datalogging (counter and recent alarm history)	■
Monitoring of door unbalance	■
Monitoring the level of automation efficiency	■
FW Update	■ via SW FlashIT and USBPROG or via App
SAFETY AND PROTECTION FUNCTIONS	
Emergency stop	■
Safe closing (inversion)	■
Safety Test Facility (for automatic safety devices)	■
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	■
OPTIONAL ACCESSORIES	
Wall station	■
Battery	■
Up-and-over door	■
Additional courtesy light	■ up to 3500 lms
Emergency release	■

AIR600B – AIR1000B

TS100X3–TS150X2
TS100X4–TS200X2

WS3

Ditec AIR

Automation for sectional doors up to 200 Kg and 17 m²

Ditec AIR was developed for the needs of professionals: **a full range of rails** to facilitate handling and shipping and speed up assembly.
Bi-frequency receiver to avoid unwanted interference, with selection directly from the configuration menu.
Integrated diagnostics facilitating the degree of door unbalance (Ditec patent) during opening and closing maneuvers and facilitating mechanical fine-tuning adjustments; continuous measurement of automation efficiency level (Ditec patent), with automatic notifications.
Many advantages for the end user: buzzer for audible signaling of automation in motion; vacation mode to disable radio controls; fast automation to reduce waiting time during opening and closing; high-brightness LED courtesy light to ensure safety and comfort; emergency batteries to avoid annoying power outages.
With the **Ditec GATE CONNECT App**, the customer can manage the automation both locally and remotely and control accesses

Automations for sectional doors and balanced overhead doors

Contents: 1 automation with encoder complete with control panel and bi-frequency radio receiver module (RCB100E), built-in Bluetooth, led courtesy light 1750 lms + 2 4-Ch rolling code remote controls (1 x ZEN4 + 1 x ZEN4W)

Article Code	Description of Article
NA**AIR600B**	Heavy-duty automation for balanced sectional doors and counterweighted overhead doors with surface up to 12 m², 24 Vdc motor, 600 N thrust with RCB100E dual-frequency 433/868 MHz radio receiver and integrated Bluetooth
NA**AIR1000B**	Heavy-duty automation for balanced sectional doors and counterweighted overhead doors with surface up to 17 m², 24 Vdc motor, 1000 N thrust with RCB100E dual-frequency 433/868 MHz radio receiver and integrated Bluetooth

Tracks

Article Code	Description of Article
NA**TS100X3**	Belt drive system with 3.3 m steel guide in 3 pieces of 1.1 m
NA**TS100X4**	Belt drive system with 4.4 m steel guide in 4 pieces of 1.1 m
NA**TS150X2**	Belt drive system with 3.3 m steel guide in 2 pieces of 1.65 m
NA**TS200X2**	Belt drive system with 4.4 m steel guide in 2 pieces of 2.2 m

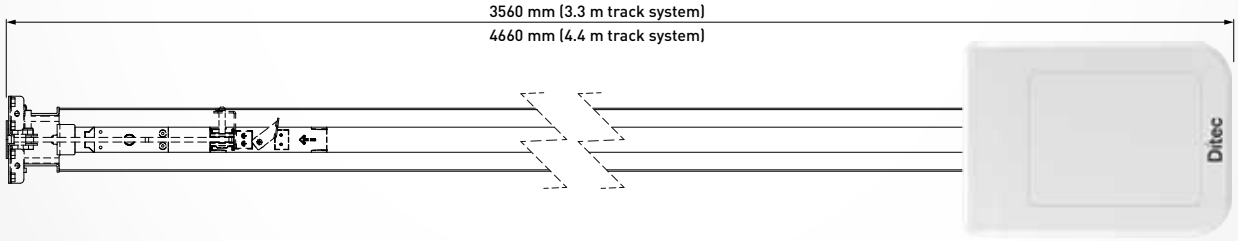
Specific accessories

Article Code	Description of Article
NA**TSRFK**	AIR automation retrofit kit on TOP803T3 and TOP803T4 rails of TOP models
NA**AIRSB**	Counterweight overhead door adapter
NA**BBK1500X1**	Emergency power supply kit 1500 mA composed of electronic board complete with wiring cables, NiMH batteries and mounting bracket for AIR
NA**LEDLGT4K35**	High brightness LED light 4000K 3500 lms for AIR1000B
NA**ASB1**	External rope release kit with lock
NA**LIN3**	Pair of slim 2-wire 24 Vdc photocells with self-test for outdoor mounting - board adjustable in 3 positions. Max range: 20 m. Compatible with AIR600B and AIR1000B only
NA**WS3**	Wall station with step-by-step control button, LED courtesy light on, vacation mode. Display for configuring AIR automation

Ditec AIR - Typical configuration

The automation system can be completed with Ditec command, control and safety devices.
■ radio controls > page 86 ■ switches > page 92 ■ photocells > page 96 ■ flashing lights > page 98 ■ safety edges > page 99

Dimensions



AUTOMATION FOR COUNTERWEIGHTED INDUSTRIAL SECTIONAL DOORS

Ditec DOD

Ditec DOD is the lateral automation system for industrial sectional doors.
Powerful: optimal performance even in unfavourable conditions, thanks to greater dynamic thrust during the initial phase of the operation.
Easy to install: reduced and compact dimensions make this automation system suitable even for deployment in a limited space.
Versatile: the motor is protected by a thermal probe and equipped with built-in electric brake and limit switch; manual reopening is carried out with a chain or a crank. The automation system can be set up on the drive shaft or with pinion and chain transmission.

POWERFUL

EASY TO INSTALL

VERSATILE SETTING

Product range

Description	DOD 14
Torque	60 Nm
Motor	230 Vac single-phase
Drive shaft rpm	22 RPM

Technical specifications

Description	DOD 14
Electromechanical actuator	for sectional industrial doors
Stroke control	rotary limit switch
Service index	intensive
Intermittent operation	S2 = 30 min S3 = 50%
Revolutions controlled by limit switches	27,5
Power absorption	230 Vac - 50/60 Hz
Power input	3 A
Maximum power	350 W
Torque / Thrust	60 Nm
Holding torque	300 Nm
Drive shaft rpm	22 RPM
Release system for manual opening	with chain with crank
Operating temperature	-20°C ÷ +55°C (-35°C ÷ +55°C with NIO enabled)
Protection level	IP 40
Weight (kg)	15.6
Control panel	LCA85

Description	DOD 14
TECHNICAL SPECIFICATIONS	
Control panel	ref. LCA85 for 1 or 2 230 Vac motors
Radio module	RCB50E (optional)
Radio frequency	433.92 (default) 868.35 Mhz (selectable from jumper)
Mains power supply	230 Vac - 50/60 Hz
Motor power supply	230 Vac - 1 x 4 A
Accessories power supply	0.5 A max
Stroke control	virtual encoder and limit switches
Limit switch provision	■
Operating temperature	-20°C ÷ +55°C in standard conditions (-35°C ÷ +55°C with NIO enabled)
Control panel protection level	IP55
Control panel dimensions (mm)	187x261x105
INPUTS	
Opening control	■
Partial opening control	■
Close control	■
Stop control	■
Step-by-step control	■
Hold-to-run control	■
Hold-to-run control only in closing. Automatic opening	■
Automatic closing contact management	■
OUTPUTS	
Flashing light	230 Vac 25 W max
24 Vdc number of configurable outputs	2
- gate-open warning light (ON/OFF)	■
- gate-open warning light with proportional blink rate	■
- courtesy light	■
- 24 Vdc led flashing light	■
- status indicator light for stop, safety, maintenance alarm	■
PROGRAMMABLE FUNCTIONS	
Configuration of programmable functions	display and navigation buttons
Force adjustment	■ (electronics)
Braking/deceleration	■
Approach space before the limit switches	adjustable
Approach speed	adjustable
Thrust on obstructions	adjustable
Adjustable automatic closing time	adjustable
Operation time	
Automatic re-closing time	adjustable
Heavy traffic management	■
Integrated datalogging (counters and recent alarm history)	■ can be viewed on display
FW update	■ using Amigo SW and USBPROG
SAFETY AND PROTECTION FUNCTIONS	
Emergency stop	■
Safe closing (inversion)	■
Safety Test Facility (for automatic safety devices)	■
ODS – Obstacle Detection System (causes the gate to stop or to reverse movement when an obstacle is detected)	■
NIO - Antifreeze system	■
OPTIONAL ACCESSORIES	
8.2 KΩ-resistance safety edge	■ in opening and closing (terminal connectors already integrated in the control panel)
Magnetic loop detector	■ with LAB9

Ditec DOD 14

Automation for counterweighted industrial sectional doors

Mounted on the drive shaft or driven by chain and pinion, **Ditec DOD** is designed to adapt to any, even pre-existing, installation.
The **small and compact dimensions** of the gear motor make it suitable even for applications where space is restricted.
The motor is protected by a **thermal probe** and equipped with incorporated adjustable electric brake and rotary limit switch.
It is also available with manual release by chain or rod.
The LCA85 control panel allows optimal adjustment of the end-of-maneuver positions directly from the control panel: after setting the end-of-maneuver position by adjusting the limit switches on the motor, it is possible to configure a stop position beyond the limit switch on which the control panel will end the maneuver (useful when used on counterbalanced sectionals as the springs lose tension)

Irreversible electromechanical actuators

Article Code	Description of Article
NA**DOD14**	22 RPM electromechanical actuator for intensive use, motor release system on board, 230 Vac motor

DO IT - Sets for counterweighted sectional doors and sliding industrial doors

Contents: 1 DOD14 actuator prewired with control panel and CE 16A 250V 2P+E industrial plug. LCA85B control panel (large box 238x357x120mm) complete with pre-mounted PT3 control pushbutton panel. Length of motor-control panel power cable: 5.3 m. Length of motor-control panel limit switch cable: 5.3 m. Control panel-industrial plug cable length: 5.3 m

Codice Articolo	Descrizione Articolo
NA**DOITDD1P**	230 Vac set with pre-wired LCA85B control panel. RCB50E dual-frequency 433/868 MHz radio receiver (not included)

Contents: 1 DOD14 actuator complete with pre-wired 3-position control selector switch and CE 16A 250V 2P+E industrial plug. Motor-selector power cable length: 10,3 m. Pushbutton-industrial plug cable length: 1.7 m

Codice Articolo	Descrizione Articolo
NA**DOD14PS**	Hold-to-run set

Control panels

Article Code	Description of Article
NA**LCA85**	For 1 motor 230 Vac, 1 x 4 A. RCB50E dual-frequency 433/868 MHz radio receiver (not included)

Specific accessories

Article Code	Description of Article
NA**DODRIN1**	Chain transmission kit
NA**DODT**	Drive shaft with Z24 pinion*
NA**CAT1**	1/2" x 5/16" chain - 5 m sections (price per metre)
NA**CATG**	1/2" x 5/16" chain coupling
NA**DODSBV**	Manual re-opening device for rod (not included)
NA**MN3****	Manual operation rod H = 3000 mm
NA**DODSBC**	Manual re-opening device featuring chain
NA**DEB04**	Remote release key-operated handle with lanyard L 5 m, complete with specific brackets for DOD

*for further solutions, using the codes NRGCTR1, NRGCTR15 e NRGCTR2, please consult our Technical Sales Department
**available while stocks last

The automation system can be completed with Ditec command, control and safety devices.
■ radio controls > page 86 ■ switches > page 92 ■ photocells > page 96 ■ flashing lights > page 98 ■ safety edges > page 99

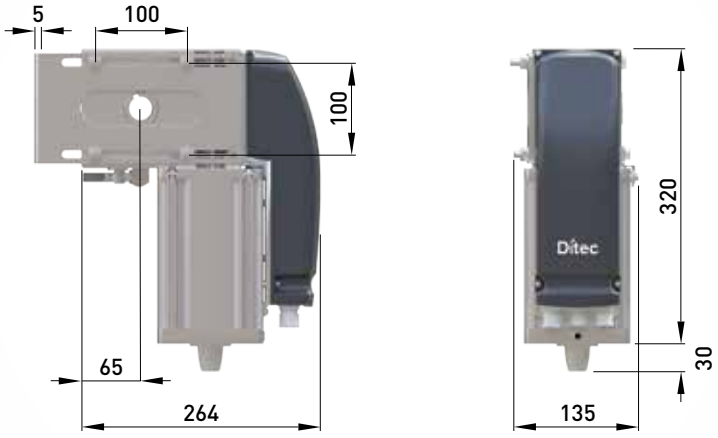
DOD14PS

DOITDD1P

DODSBC

Ditec DOD - Typical configuration

Dimensions



AUTOMATION FOR COUNTERWEIGHTED INDUSTRIAL SECTIONAL DOORS

Ditec NRG

Ditec NGR is a range of three phase non-reversible automation systems for large industrial and commercial sectional doors weighing up to 650 Kg.
The automation system may be installed with drive transmitted directly onto the shaft of the door or via a transmission chain.
Powerful: 400 Vac three phase versions ensure increased gear motor starting torque.
A complete range: a choice of three 100 Nm versions and one 140 Nm version, with 6-cam mechanical limit switches or absolute encoder. Also available with chain for emergency manual operation and quick release mechanism.
Absolute encoder: precisely adjustable top and bottom travel limit positions from electrical panel without having to access the motor.

POWERFUL

COMPLETE RANGE

ABSOLUTE ENCODER 400V ENCODER

Product range

Description	NRG100TXF	NRG100TXE	NRG100TRE	NRG140TXE
Torque	100 Nm	100 Nm	100 Nm	140 Nm
Motor	Three-phase	Three-phase	Three-phase	Three-phase
Drive shaft rpm	21 RPM	21 RPM	21 RPM	18 RPM

Technical specifications

Description	NRG100TXF	NRG100TXE	NRG100TRE	NRG140TXE
Electromechanical actuator	for sectional doors	for sectional doors	for sectional doors	for sectional doors
Stroke control	mechanical cam limit switch	absolute encoder	absolute encoder	absolute encoder
Max. cycles/hour	20	20	20	20
Revolutions controlled by limit switches	18	18	18	18
Holding torque	450 Nm	450 Nm	450 Nm	500 Nm
Power supply	400 Vac / 50 Hz	400 Vac / 50 Hz	400 Vac / 50 Hz	400 Vac / 50 Hz
Power input	2,2 A	2,2 A	2,2 A	2,3 A
Maximum power	800 W	800 W	800 W	870 W
Torque / Thrust	100 Nm	100 Nm	100 Nm	140 Nm
Maximum door weight	400 Kg	400 Kg	400 Kg	650 Kg
Drive shaft rpm	21 RPM	21 RPM	21 RPM	18 RPM
Release system for manual opening	manual emergency operation with chain	manual emergency operation with chain	quick release	manual emergency operation with chain
Operating temperature	-20°C ÷ +60°C	-20°C ÷ +60°C	-20°C ÷ +60°C	-20°C ÷ +60°C
Protection level	IP 54	IP 54	IP 54	IP 54
Weight (kg)	15.1	15.1	15.1	16
Control panel	EL500E (after rewiring)	EL500E	EL500E	EL500E

Description	NRG100TXF - NRG100TXE - NRG100TRE -NRG140TXE
TECHNICAL SPECIFICATIONS	
Control panel	rif. EL500E for one 400 Vac motor
Radio frequency	433,92 MHz con ZENXR2
Mains power supply	3 x 400 Vac - 50/60 Hz 3 x 230 Vac - 50/60 Hz
Motor power supply	3 x 400 Vac 4 kW 3 x 230 Vac 2,3 kW
Accessories power supply	24 Vdc - 0.250 A
Limit switch provision	prewired for encoder. Also compatible with mechanical limit switches
Operating temperature	-10°C ÷ +50°C
Control panel protection level	IP 54
Control panel dimensions (mm)	210 x 305 x 120 mm
INPUTS	
Opening control	■
Partial opening control	adjustable
Close control	■
Stop control	■
Step-by-step control	adjustable
Hold-to-run control	adjustable
Automatic closing contact management	adjustable
8.2 KΩ-resistance safety edge	■
Optical safety edge	■
OUTPUTS	
Flashing light	■ 230 Vac shared with courtesy light or with NRGFTL
Gate-open warning light (ON/OFF)	Adjustable
Courtesy light	■ shared with flashing light or with NRGFTL
PROGRAMMABLE FUNCTIONS	
Configuration of programmable functions	display and navigation buttons
Force adjustment	■
Operation time	■
Travel limit position configuration from electrical panel	■
SAFETY AND PROTECTION FUNCTIONS	
Emergency stop	■
Safe closing (inversion)	■
Safety Test Facility (for automatic safety devices)	■
ODS – Obstacle Detection System (causes the gate to stop or to reverse movement when an obstacle is detected)	■
OPTIONAL ACCESSORIES	
Magnetic loop detector	■ with LAB9 e CONT1

The automation system can be completed with Ditec command, control and safety devices.
■ radio controls > page 86 ■ switches > page 92 ■ photocells > page 96 ■ flashing lights > page 98 ■ safety edges > page 99

Ditec NRG

Automation for counterweighted industrial sectional doors

Light, compact operator for installation on either right or left hand side of door.
Safe: motors with high holding torque (450 Nm for 100 Nm motors and 500 Nm for 140 Nm motors).
Plug & Play: pre-assembled chain for emergency manual operation. Pre-wired cable between motor and electrical panel for connecting limit switches and power feed. Ready to use electrical panel with cable pre-fitted with 3P+N+PE industrial plug and control panel.
Electrical panel ready for connection to latest generation optical sensing edges and 8.2 kΩ resistive sensing edges.

Three phase electromechanical actuators for industrial sectional doors

Article Code	Article Description
NA**NRG100TXF**	100 Nm electromechanical actuator with release system and manual emergency operation mechanism with chain. 6-cam mechanical limit switches (motor mounting bracket not included)
NA**NRG100TXE**	100 Nm electromechanical actuator with absolute encoder, with release system and manual emergency operation mechanism with chain (motor mounting bracket not included)
NA**NRG100TRE**	100 Nm electromechanical actuator with absolute encoder, with quick release mechanism (motor mounting bracket not included)
NA**NRG140TXE**	140 Nm electromechanical actuator with absolute encoder, with release system and manual emergency operation mechanism with chain (motor mounting bracket not included)

Control panel

Article Code	Article Description
NA**EL500E**	For 1 three phase motor with absolute encoder or mechanical limit switches. Configuration with display. Pre-wired with 16 A 5-pin industrial plug

Specific accessories

Article Code	Article Description
NA**ZENXR2**	Pre-wired universal receiver 433 MHz, 12-24 Vdc, in indoor or outdoor box. Supplied complete with removable BIXMR2 memory module (capacity: 200 users)
NA**NRGFB**	Slotted bracket for mounting Ditec NRG motor
NA**NRGFTL**	Plug-in board for controlling flashing lights, service lights or traffic light units
NA**NRGCAB5**	5 metre cable pre-fitted with connectors for motor power and managing limit switches (mechanical limit switches or absolute encoder)
NA**NRGCTR1**	Chain drive kit complete with shaft with pinion, crown wheel, 1.6 metre chain and coupling, stop ring, grub screw and key. Drive ratio 1:1
NA**NRGCTR15**	Chain drive kit complete with shaft with pinion, crown wheel, 1.6 metre chain and coupling, stop ring, grub screw and key. Drive ratio 1:1.5
NA**NRGCTR2**	Chain drive kit complete with shaft with pinion, crown wheel, 1.6 metre chain and coupling, stop ring, grub screw and key. Drive ratio 1:2

NRG series

EL500E

NRGCAB5 - NRGFB

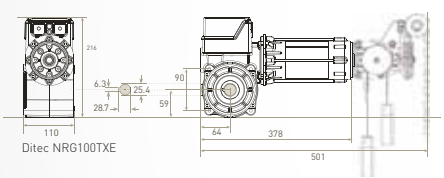
NRGCTR1 - NRGCTR15 - NRGCTR2

ZENXR2

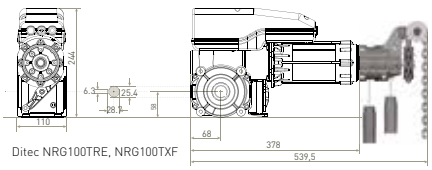
NRGFTL

Ditec NGR - Typical configuration

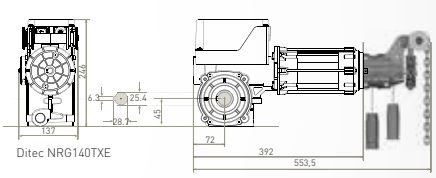
Dimensioni



Ditec NRG100TXE



Ditec NRG100TRE, NRG100TXF



Ditec NRG140TXE

Ditec DOR

Ditec DOR is an automation system for folding industrial doors that moves two wings up to 1.5 + 1.5 m long. When mounted on one wing, opening and closing is carried out by means of a telescopic arm.
Powerful: the machinery in conjunction with accurate control of the control panel move very heavy wings (500 kg).
Safe: The 24 Volt DC motor with a virtual encoder provides constant adjustment of the force of impact and immediate detection of obstacles.
Versatile: thanks to its virtual encoder control units it is possible to achieve accurate speed setting with the possibility to configure slowdowns and startups, avoiding mechanical stress during closing or opening.

POWERFUL SAFE 24V VIRTUAL ENCODER VERSATILE SETTING

Product range

Weight up to 500 kg

Ditec DOR 1BH - Ditec DOR 1BHS

Technical specifications

Description	DOR 1BH	DOR 1BHS (IP55 version)
Electromechanical actuator	for folding doors	for folding doors
Maximum capacity	500 kg (1.5 m + 1.5 m)	500 kg (1.5 m + 1.5 m)
Service index	intensive	intensive
Intermittent operation	S2 = 30 min S3 = 50%	S2 = 30 min S3 = 50%
Power absorption	24 Vdc	24 Vdc
Power input	12 A	12 A
Torque / Thrust	300 Nm	300 Nm
Drive shaft rpm	2.5 RPM	2.5 RPM
Release system for manual opening	rope	rope
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 level	IP 44	IP 55
Product dimensions (mm)	400x120x107	400x120x107
Control panel	LCU40H - LCU40HJ*	LCU40H - LCU40HJ*

*J version 120 Vac power supply

	DOR 1BH - DOR 1BHS
TECHNICAL SPECIFICATIONS	
Control panel	ref. LCU40H for 1 or 2 24 Vdc motors
Radio module	RCB50E
Radio frequency	433.92 (default) 868.35 Mhz (selectable from jumper)
Number of motors	1 or 2
Mains power supply	230 Vac or 120 Vac - 50/60 Hz
Motor power supply	24 Vdc - 2 x 12 A
Accessories power supply	24 Vdc - 0.5 A
Stroke control	virtual encoder
Limit switch provision	■
Operating temperature	-20°C ÷ +55°C in standard conditions / -35°C ÷ +55°C with NIO enabled
Control panel protection level	IP55
Control panel dimensions (mm)	238x357x120
INPUTS	
Opening control	■
Partial opening control	■
Close control	■
Stop control	■
Step-by-step control	■
Hold-to-run control	■
Automatic closing contact management	■
OUTPUTS	
Flashing light	24 Vdc
Electrically operated lock	12 Vdc / 15 W
Gate-open warning light (ON/OFF)	■
Gate-open warning light with proportional blink rate	■
Courtesy light	■ shared with electrically operated lock or flashing light
PROGRAMMABLE FUNCTIONS	
Configuration of programmable functions	display and navigation keys
Force adjustment	electronic
Speed	adjustable
Soft Start/Soft Stop	adjustable
Braking/Slowing down	adjustable
Stop approach	adjustable
Operation time	adjustable
Automatic re-closing time	adjustable
Integrated datalogging (counters and recent alarm history)	■ can be viewed on display and on a PC with Amigo SW
Extended datalogging with micro SD (in-depth records for every event)	■ can be viewed on a PC with Amigo SW
FW update	■ using MicroSD or using Amigo SW and USBPROG
SAFETY AND PROTECTION FUNCTIONS	
Emergency stop	■
Safe closing (inversion)	■
Safety Test Facility (for automatic safety devices)	■
ODS – Obstacle Detection System (causes the gate to stop or to reverse movement when an obstacle is detected)	■
NIO - Antifreeze system	■
OPTIONAL ACCESSORIES	
Battery continuity operation	■ with SBU
Possibility of integrated batteries in the control panel	■
Stand-alone solar-powered installation	■ with SBU*
Hybrid solar-powered installation	■ with SBU
8.2 KΩ-resistance safety edge	■ with GOPAV
Magnetic loop detector	■ with LAB9

* With SBU it is possible to use photovoltaic panels up to max 20 W to recharge the batteries.
The battery recharging time and the number of possible operations depend on the irradiation conditions

Ditec DOR

Automation for folding doors

Ditec DOR is an irreversible electromechanical actuating arm gear motor that is also available in an IP55 version.
It is the only model for a right and a left wing, it is already equipped with a cord activated release system.
In the event of a temporary power outage, there is the possibility to connect to **batteries**, to guarantee continued operation and enable the system a large number of operations while the electricity supply is being restored.

Irreversible electromechanical actuators for up to 1.5 + 1.5 m wings

Article Code	Description of Article
NA**DOR1BH**	Irreversible electromechanical actuator, for intensive use, with a **24 Vdc** motor
NA**DOR1BHS**	Irreversible electromechanical actuator, for intensive use, with a **24 Vdc** motor, IP 55 version

Specific accessories

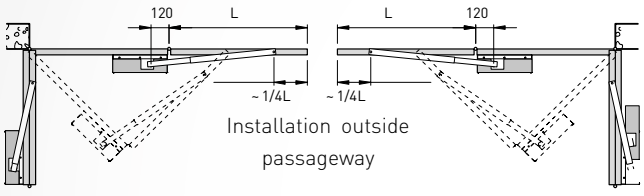
Article Code	Description of Article
NA**DORBD**	Straight arm
NA**BOXFC1**	Limit switch unit

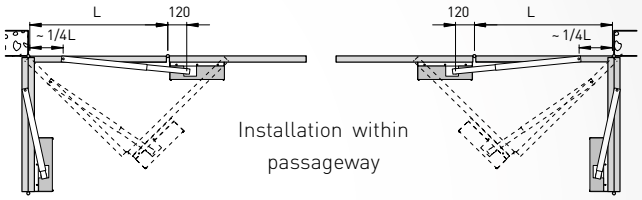
Control panels

Article Code	Description of Article
NA**LCU40H** NA**LCU40HJ***	For one or two **24 Vdc** / 2 x 12 A max motors with RCB50E dual-frequency 433/868 MHz radio receiver
NA**DEB04**	Remote release key-operated handle with lanyard L 5 m, complete with specific brackets for DOR

*J version 120 Vac power supply

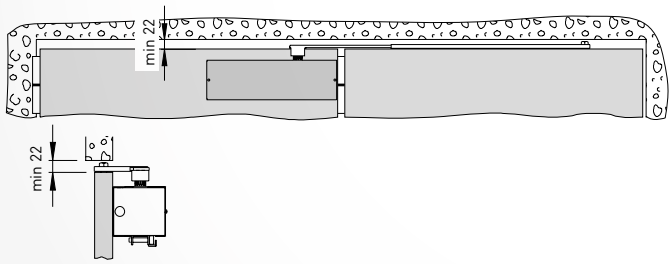
Example of installation

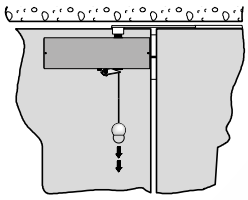


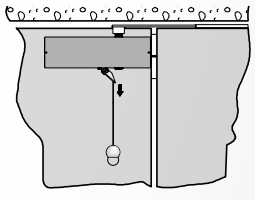


Gear motor location

Cord-release system



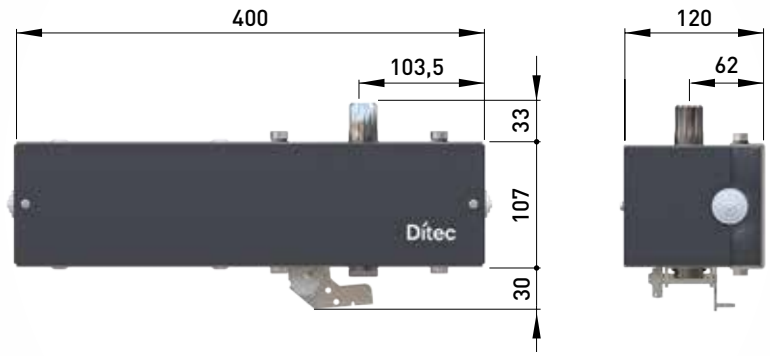




Ditec DOR - Typical configuration

The automation system can be completed with Ditec command, control and safety devices.
■ radio controls > page 86 ■ switches > page 92 ■ photocells > page 96 ■ flashing lights > page 98 ■ safety edges > page 99

Dimensions




Dítec
Dítec
Dítec

04

AUTOMATIC BARRIERS AND AUTOMATION FOR SLIDING FRAMES

AUTOMATIC BARRIERS

Ditec QIK 4E

up to 3.5 meters

Ditec QIK 7EH

up to 5.8 meters

Ditec QIK 80EH

up tp 7.6 meters

AUTOMATION FOR SLIDING FRAMES

Ditec OLLY E

with frames weighing up to 80 kg

Ditec QIK

Ditec QIK is the top performance automatic barrier that fits perfectly into any context. It is the ideal solution for completely secure access control and management, allowing only authorised personnel to enter.
It is available in 3 versions: **one 230 Vac version** for a usable opening width **of up to 3.5 m** and **two 24 Vdc versions** for passageways **of up to 5.8 and 7.6 m** respectively. The encoder system on the **24 Vdc** models ensures completely safe use, allowing speed control and continuous adjustment of the impact force, as well as immediate detection of obstructions.
Available in both 230 Vac and 120 Vac power supply.

SAFE 24V ENCODER VERSATILE

Product range

Automatic barrier up to 3.5 m long	Automatic barrier up to 5.8 m long	Automatic barrier up to 7.6 m long
Ditec QIK 4E*	Ditec QIK 7EH	Ditec QIK 80EH

Technical specifications

Description	QIK 4E*	QIK 7EH - QIK 7EHJ	QIK 80EH
Barriers	up to 3.5 m long	up to 5.8 m long	up to 7.6 m long
Stroke control	lever-operated mechanical stop	encoder	encoder + limit switch
Arm length up to	3.7 m	6 m	7.95 m
Arm	elliptical	elliptical	round
Service index	frequent	very intensive	intensive
Intermittent operation	S2 = 15 min S3 = 30%	S2 = 60 min S3 = 60%	S2 = 50 min S3 = 50%
Power absorption	230 Vac - 50 Hz	230 Vac or 120 Vac - 50/60 Hz	230 Vac - 50/60 Hz
Power input	1.2 A	1 A	1.2 A
Torque	90 Nm	70 Nm	200 Nm
Opening time	4 s/90°	2–6 s/90°	6–12 s/90°
Closing time	4 s/90°	2–6 s/90°	6–12 s/90°
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 24D	IP 24D	IP 24D
Product dimensions (mm)	300x320x1050	300x320x1050	405x525x1180
Control panel	E1A (built in)	EL31R (built-in)	EL34 (built in)

* available while stocks last

	QIK 4E	QIK 7EH - QIK 7EHJ	QIK 80EH
TECHNICAL SPECIFICATIONS			
Control panel	ref. E1A for one 230 Vac motor with built-in radio	ref. EL31R for 1 24 Vdc motor with built-in radio	ref. EL34 for 1 24 Vdc motor with a built-in radio decoder
Radio frequency	433.92 MHz standard 868.35 MHz with BIXPR2	433.92 MHz standard 868.35 MHz with BIXPR2	433.92 MHz with GOLR 868.35 MHz with BIXPR2
Mains power supply	230 Vac - 50 Hz	230 Vac or 120 Vac - 50/60 Hz	230 Vac - 50/60 Hz
Accessories power supply	24 Vdc - 0.5 A	24 Vdc - 0.3 A	24 Vdc - 0.5 A
Stroke control		encoder	encoder
Limit switch provision	■	■	■
Operating temperature	-20°C ÷ +55°C in standard conditions -35°C ÷ +55°C with NIO enabled	-20°C ÷ +55°C in standard conditions -35°C ÷ +55°C with NIO enabled	-20°C ÷ + 55°C in standard conditions -35°C ÷ +55°C with NIO enabled
Control panel protection level	IP55	IP55	IP55
Control panel dimensions (mm)	built into the barrier	built into the barrier	built into the barrier
INPUTS			
Opening control	shared with step-by-step control, selected with dip-switch	shared with step-by-step control, selected with dip-switch	■
Partial opening control	■ via radio		
Close control	shared with emergency stop, which can be selected by setting a jumper	shared with emergency stop, which can be selected via dip-switch	■
Stop control	■	■	■
Step-by-step control	shared with opening control, selected via dip-switch	shared with opening control, selected via dip-switch	■
Hold-to-run control	■	■	■
Automatic closing contact management			■
OUTPUTS			
Flashing light	230 Vac	24 Vdc	24 Vdc
Electrically operated lock		24 Vdc / 1 A	24 Vdc / 1 A
Gate-open warning light (ON/OFF)	■ from limit switch		
Gate-open warning light with proportional blink rate		■	■
Courtesy light	■ up to 60 W	■ up to 400 W	■ up to 400 W configurable via MD2
PROGRAMMABLE FUNCTIONS			
Configuration of programmable functions	dip-switches and trimmers	dip-switches and trimmers	dip-switches and trimmers or via MD2
Force adjustment	electronically selected transformer	electronic	electronic
Speed		adjustable	adjustable
Soft start / Soft stop		fixed	fixed
Operation time	adjustable	adjustable	adjustable
Automatic re-closing time	adjustable	adjustable	adjustable
SAFETY AND PROTECTION FUNCTIONS			
Emergency stop	■	■	■
Safe closing (inversion)	■	■	■
Safety Test Facility (for automatic safety devices)	■	■	
ODS – Obstacle Detection System (causes the gate to stop or to reverse movement when an obstacle is detected)	■	■	■
NIO - Antifreeze system	■	■	■
OPTIONAL ACCESSORIES			
Battery continuity operation		■ with SBU	■ with BATKH
Support for automation system with integrated batteries		■	■
Magnetic loop detector	■ with LAB9	■ with LAB9	■ with LAB9

* Note: for QIK 80EH, add the GOLR receiver card for use with the ZEN remote control

Ditec QIK 4E, Ditec QIK 7EH

Automatic barriers up to 5.8 meters

Ditec QIK 7EH is the high-performance automatic barrier that is synonymous with long life: **tested to more than 1 million cycles,** it has an opening speed of down to 2 sec (90° opening).
Versatile: simple setting of opening and closing speed, and of the automatic closing time; adjustable force control and braking distance control.
Complete: electrically operated closing lock that guarantees greater safety against unauthorised opening, articulated arm for operation in limited vertical space, arm lighting kit for greater visibility, card for running on batteries that can be recharged from the mains or from solar panels.
Easy to install: a single 24 Vdc for usable openings from 1.3 m to 5.8 m balancing the weight of the arm and any additional accessories (moving mounting, skirting, etc.) simply by choosing the right compression spring among the 4 available.

Automatic barriers up to 5.8 m long (usable opening)

Article Code	Description of Article
NA**QIK4E***	Intensive-use barrier, 230 Vac motor, 3.5 m usable opening, without spring, with a 433 MHz radio
NA**QIK7EH** NA**QIK7EHJ****	Very-intensive-use barrier, **24 Vdc** motor with encoder, 5.8 m usable opening, without spring, with a 433 MHz radio
NA**QIKY7EH**	Very-intensive-use barrier, **24 Vdc** motor with encoder, 5.8 m usable opening, without spring, stainless steel version, with a 433 MHz radio

* available while stocks last
**J version 120 Vac power supply

Accessories

Article Code	Description of Article
NA**QIKB37**	Aluminium elliptical arm, L = 3700 mm
NA**QIKB50**	Aluminium elliptical arm, L = 5000 mm
NA**QIKB60**	Aluminium elliptical arm, L = 6000 mm
NA**QIKBG**	Joint for elliptical arm
NA**QIKM1**	Grey spring
NA**QIKM2**	Green spring
NA**QIKM3**	Red spring ø 38 mm
NA**QIKM4**	Red spring ø 51 mm
NA**QIKZ**	Base plate with support feet for barrier
NA**QIKGR**	Aluminium skirting L = 2000 mm, red/white painted
NA**QIKSN**	Articulation for elliptical arm
NA**SBU**	Electronic board complete with cables, with three operating modes: continuity mode, with battery charging from power supply to handle blackouts, compatible with all 24 Vdc control panels; solar mode, with battery charging from photovoltaic panel, compatible with LCU40H, ION and NEOS Green; hybrid mode for battery charging via 230 Vac power supply and photovoltaic panel, compatible with LCU40H. Includes mounting brackets for 2 batteries (12V-2Ah, 178x35x62mm) for LCU40H panel, NEOS Green motors and QIK7EH barrier. Batteries not included (max 2 x 12V-7Ah). Photovoltaic panel not included (max 20W)
NA**QIKLUX**	Kit of lights (6 leds) - QIK4E max 6 leds, QIK7EH max 12 leds
NA**QIKC**	10 reflective strips kit
NA**QIKAF**	Fixed mounting - to be fixed to the ground
NA**QIKAFE**	Fixed mounting with electromagnetic lock
NA**QIKAM**	Moving mounting - to be fixed to the arm
NA**QIKAFZ**	Fixing support feet for QIK AF mounting

Note: For spring selection, see table on page 74
Usable passageway width PL = L - 200 mm with L = arm length

QIK

QIKB37 - QIKB50 - QIKB60

QIKBG

QIKM

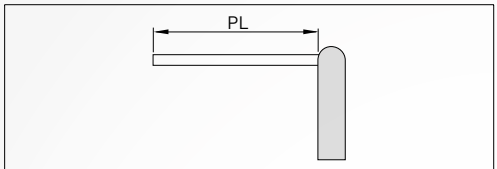
QIKZ

QIKGR

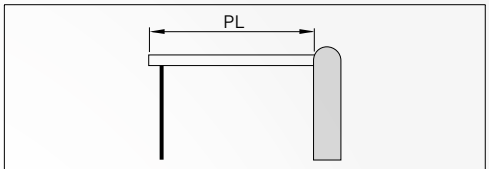
QIKSN

SBU

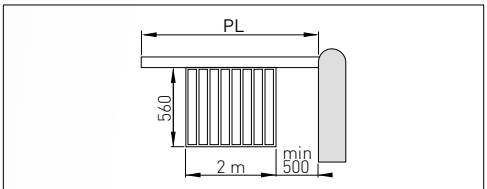
Ditec QIK 4E - Ditec QIK 7EH - Selection of the suitable spring



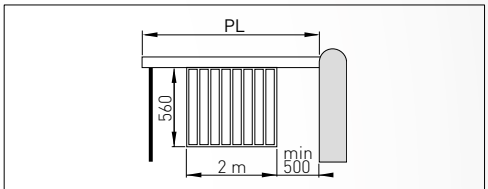
PL (mm)			
1300 - 1699	QIKM1	/	/
1700 - 1999	/	QIKM1	/
2000 - 2499	QIKM2	/	/
2500 - 2999	/	QIKM2	/
3000 - 3499	/	/	QIKM2
3500 - 4499	QIKM3	/	/
4500 - 5199	/	QIKM3	/
5200 - 5800	/	QIKM4	/



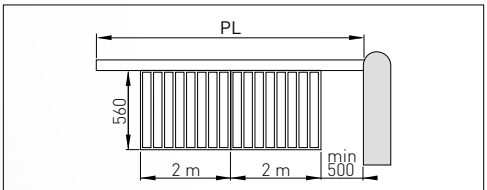
PL (mm)			
1900 - 1999	/	/	QIKM1
2000 - 2299	QIKM2	/	/
2300 - 2899	/	QIKM2	/
2900 - 3199	/	/	QIKM2
3200 - 4099	QIKM3	/	/
4100 - 4799	/	QIKM3	/
4800 - 5800	/	QIKM4	/



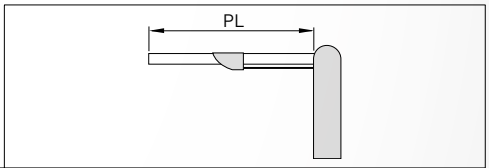
PL (mm)			
2500 - 2999	/	/	QIKM2
3000 - 3600	QIKM3	/	/



PL (mm)			
2700 - 3399	QIKM3	/	/
3400 - 3600	/	QIKM3	/

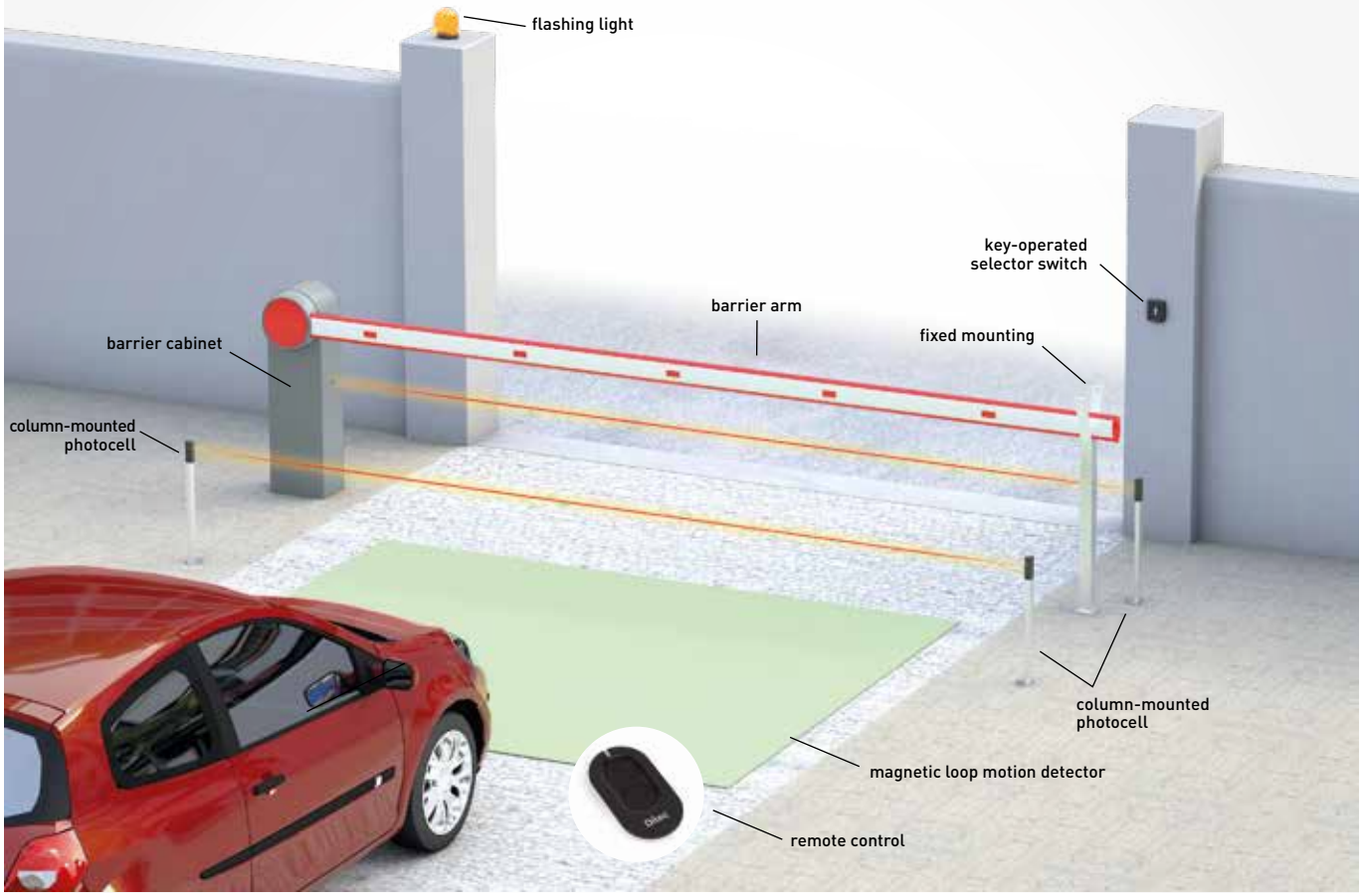


PL (mm)			
4600 - 5000	/	QIKM4	/



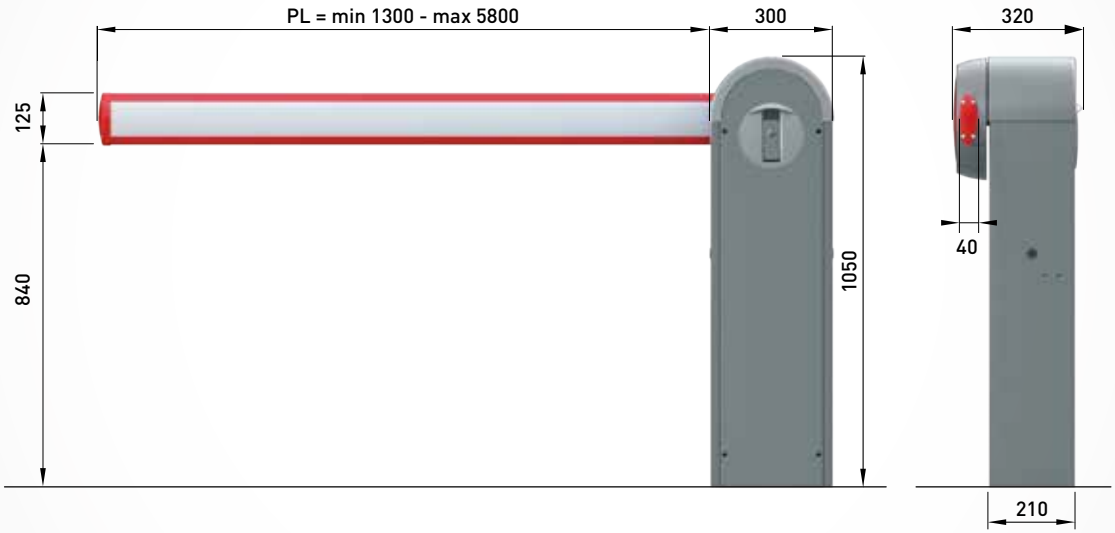
PL (mm)			
2000 - 2299	QIKM2	/	/
2300 - 2899	/	QIKM2	/
2900 - 3199	/	/	QIKM2
3200 - 4099	QIKM3	/	/
4100 - 4450	/	QIKM3	/

Ditec QIK 4E - 7EH - Typical configuration



The automation system can be completed with Ditec command, control and safety devices.
■ radio controls > page 86 ■ switches > page 92 ■ photocells > page 96 ■ flashing lights > page 98 ■ safety edges > page 99

Dimensions



Ditec QIK 80EH

Automatic barriers up to 7.6 meters

Ditec QIK80EH is an automatic barrier for up to 7.6 m usable openings. **Aluminium round arm** for greater stability and wind resistance, avoiding waving. The electronic control panel installed on the top of the barrier for easy access and configuration.
Thanks to the **encoder** and the **built-in limit switches** it is possible to manage speed, thrust on obstructions, control of startup time, and setting of slowing down during opening and closing. Diagnostics and control panel setting via the MD2 display module.
Enhanced functions include **counters for partial and total number of operations**, dedicated terminal connection for quick connection in a **master/slave configuration** for synchronized dual opening or interlocking opening control, and the NIO electronic antifreeze system built into the control panel.

Automatic barriers up to 7.6 m long (usable opening)

Article Code	Description of Article
NA**QIK80EH**	Intensive-use barrier, **24 Vdc** motor with encoder and mechanical stop, 7.6 m usable opening, without spring, suitable for fitting a round arm. GOLR 433 MHz radio receiver (not included)

Note: The electronic panel does not include a radio receiver

433 MHz receiver module

Article Code	Description of Article
NA**GOLR**	433 MHz plug-in receiver module for control panels with built-in radio decoder. Female connector for EL34 control panel and QIK80EH

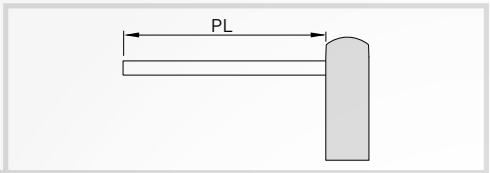
Note: Alternatively, the card-type receivers on page 87 can be used

Accessories

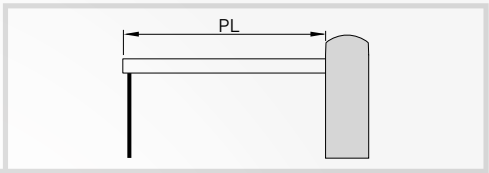
Article Code	Description of Article
NA**QIKC40**	Aluminium round arm, L = 3975 mm
NA**QIKCG**	Joint for round arm
NA**QIKM5**	Blue spring
NA**QIK80Z**	Base plate with support feet for barrier
NA**QIKGR**	Aluminium skirting L = 2000 mm, red/white painted
NA**BATKH**	Battery kit for 24 Vdc barrier
NA**QIKLUX**	Kit of lights (6 leds) - max 15 leds
NA**QIKC**	10 reflective strips kit
NA**QIKAF**	Fixed mounting - to be fixed to the ground
NA**QIKAFE**	Fixed mounting with electromagnetic lock
NA**QIKAM**	Moving mounting - to be fixed to the arm
NA**QIKAFZ**	Fixing support feet for QIKAF mounting
NA**MD2**	Display module for diagnostics and enhanced control system - available while stocks last

Note: For spring selection, see table on the next page
Usable passageway width PL = L - 350 mm L = arm length

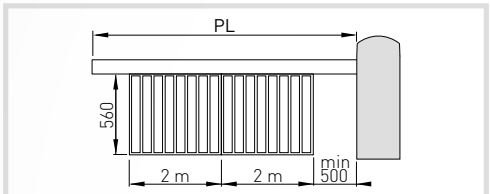
Ditec QIK 80EH - Choosing the right spring



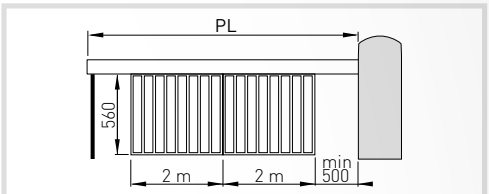
PL (mm)				
4500-5199	QIKM5	/	/	/
5200-5999	/	QIKM5	/	/
6000-6999	/	/	QIKM5	/
7000-7600	/	/	/	QIKM5



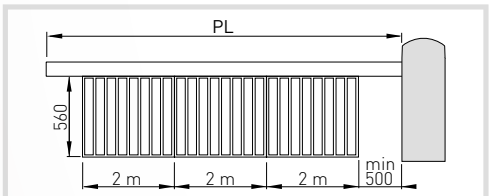
PL (mm)				
4500-4999	QIKM5	/	/	/
5000-5799	/	QIKM5	/	/
5800-6799	/	/	QIKM5	/
6800-7200	/	/	/	QIKM5



PL (mm)				
4600-4799	QIKM5	/	/	/
4800-5499	/	QIKM5	/	/
5500-6499	/	/	QIKM5	/
6500-6800	/	/	/	QIKM5

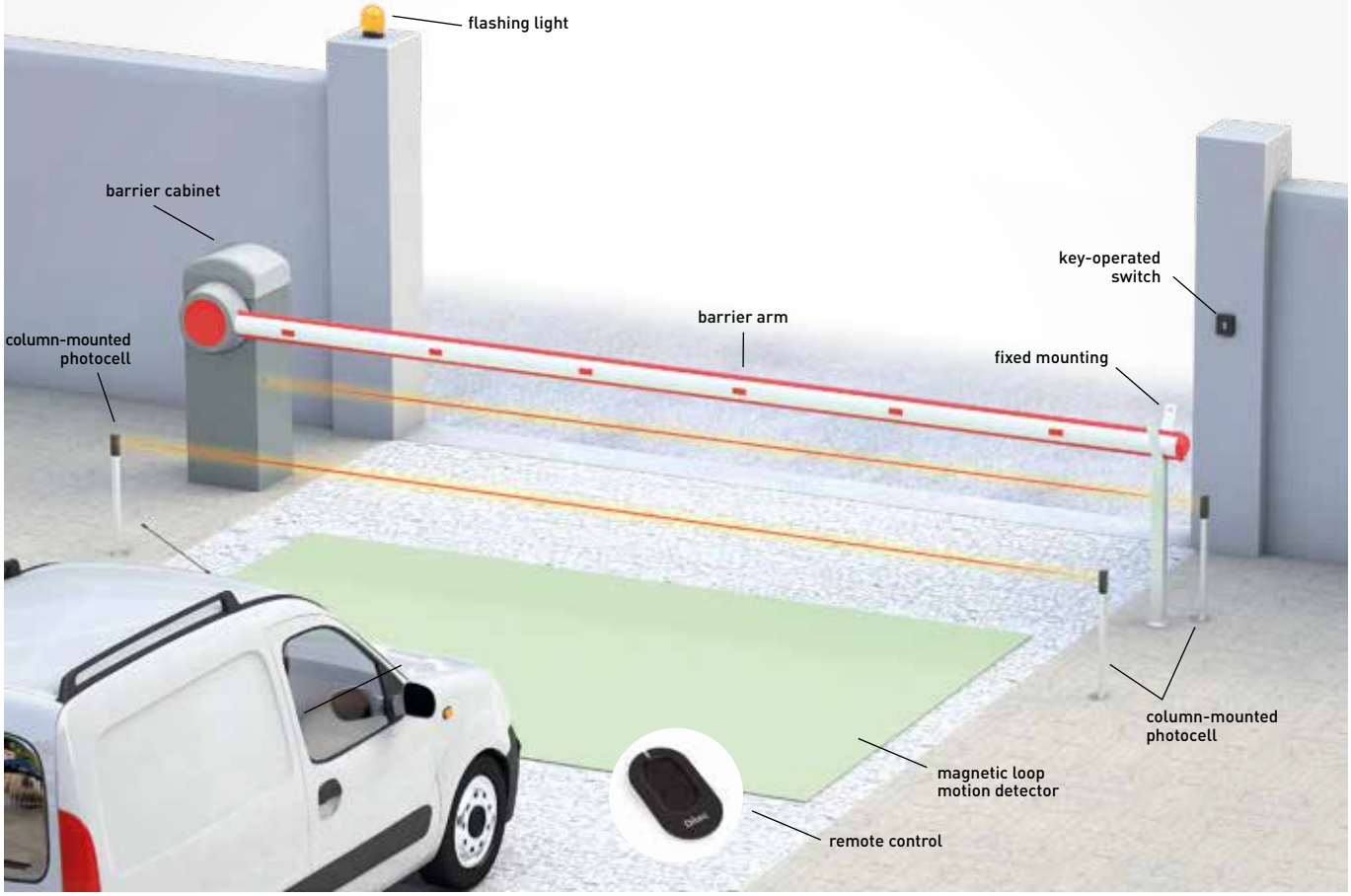


PL (mm)				
4800-5899	/	/	QIKM5	/
5900-6500	/	/	/	QIKM5



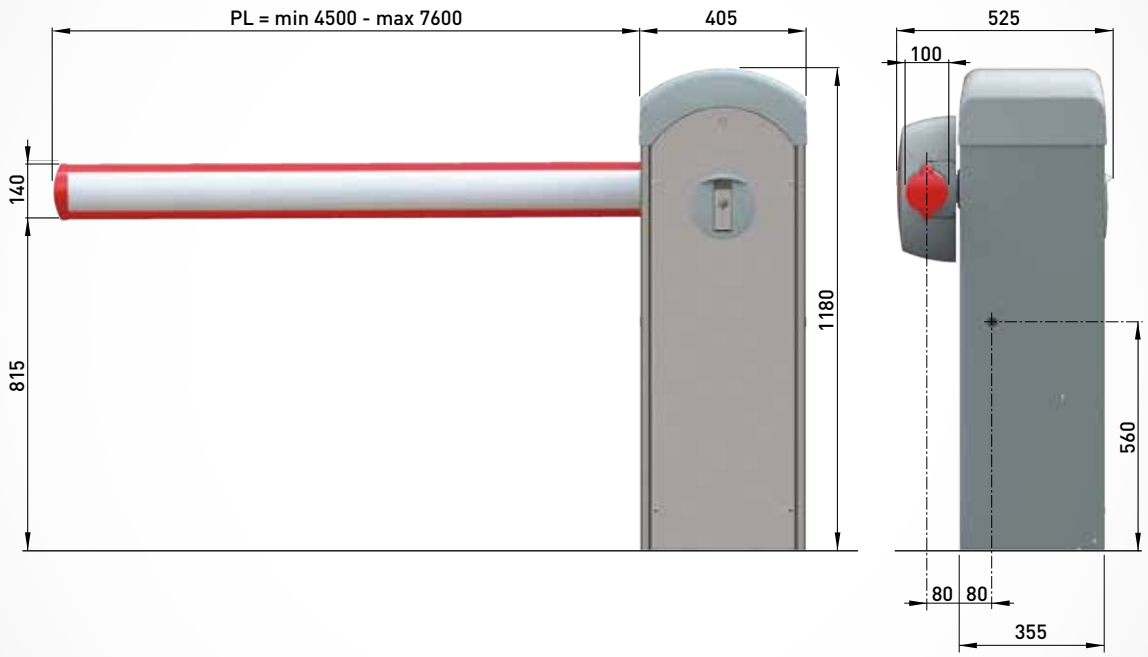
PL (mm)				
6700	/	/	/	QIKM5

Ditec QIK 80EH - Typical configuration



The automation system can be completed with Ditec command, control and safety devices.
■ radio controls > page 88 ■ switches > page 94 ■ photocells > page 98 ■ flashing lights > page 100 ■ safety edges > page 101

Dimensions



Ditec OLLY E

Ditec OLLY E is an automation system for sliding frames, both visible and concealed, that can move wing weighing up to 80 Kg.
Ready to use: versatile and quiet, it is supplied complete with an actuator, drive belt, two belt connectors and a control panel complete with a built-in radio receiver.
Easy to install: control panel is separate from the automation system in order to guarantee compact dimensions. An automation system that can handle two mounting options: right wing over left wing or vice versa.

READY TO USE

EASY TO INSTALL

Technical specifications

Description	OLLY E
Electromechanical actuator	for sliding frames
Maximum capacity	80 kg
Service index	light
Intermittent operation	S2 = 7 min / S3 = 15%
Power absorption	19 V=
Power input	1.8 A
Torque / Thrust	50 Nm
Opening speed	0.1 m/s
Closing speed	0.1 m/s
Maximum opening width	3.5 m
Operating temperature	-20°C ÷ +55°C
Protection level	IP 20
Product dimensions (mm)	60x43x120
Control panel	RO2H

Control panel functions

Description	RO2H
Control panel	for 1 19 V= motor with built-in radio
Mains power supply	230 Vac - 50/60 Hz
Number of motors	1
Motor power supply	19 V= / 1.8 A
Stop device	■
ODS - Obstacle Detection System (causes the gate to stop or to reverse motion when an obstruction is detected)	■
Opening control	■
Close control	■
Hold-to-run control	■

Automation set for sliding frame

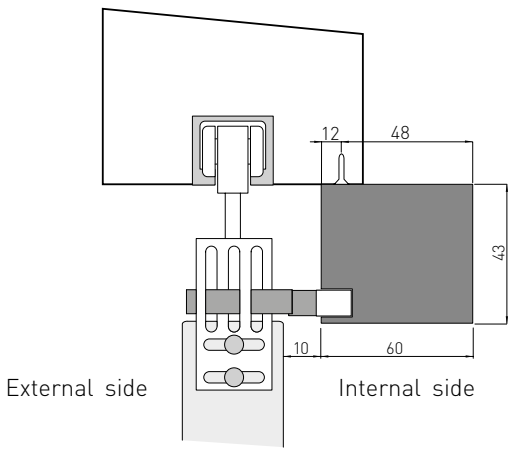
The set contains, in a single pack, the automation and the control and safety accessories required to setup a wing sliding frame. Contents: 1 1JE actuator + 1.5 m KXL037K drive belt + 2 2R944A belt connectors + 1 RO2H control panel complete with built-in radio receiver

Article Code	Description of Article
NA**KJE**	OLLY E set

Accessories

Article Code	Description of Article
NA**KXL037K**	20 m transmission belt roll

Dimensions




Dítec

05

ACCESSORIES

24 Vdc control panels

Multifunction control panels for one or two 24 Vdc motors for swing gates. Available in two versions: **LCU30H for motors up to 6 A and LCU40H for motors up to 12 A.**
Both panels make it easy to use the display to configure position and speed at any time, allowing adjustment for acceleration, deceleration, start time, slowdown distance and approach speed during opening and closing.
Integrated diagnostics with counters and history for the most recent alarms, visible on the panel display (LCU30H and LCU40H) and on a PC with MicroSD (LCU40H).
In-depth diagnostics with registration of all events on a MicroSD card (LCU40H). Data can be displayed and precisely analysed with software Amigo (available in the download area of www.ditecautomations.com site).

Control panel compatible motors

LCU30H - LCU30HJ	LCU40H - LCU40HJ
PWR 25H - PWR 35H - FACIL 3H - ARC BH	PWR 25H - PWR 35H - PWR 50H - PWR 50HV - PWR 50HR - FACIL 3H ARC BH - ARC 1BH - CUBIC 6H - CUBIC 6HV - DOR 1BH - DOR 1BHS

Control panels

Article Code	Description of Article
NA**LCU30H** NA**LCU30HJ***	For one or two **24 Vdc** / 2 x 6 A max motors with RCB50E dual-frequency 433/868 MHz radio receiver
NA**LCU40H** NA**LCU40HJ***	For one or two **24 Vdc** / 2 x 12 A max motors with RCB50E dual-frequency 433/868 MHz radio receiver

*J version 120 Vac power supply

Accessories

Article Code	Description of Article
NA**SBU**	Electronic board complete with cables, with three operating modes: continuity mode, with battery charging from power supply to handle blackouts, compatible with all 24 Vdc control panels; solar mode, with battery charging from photovoltaic panel, compatible with LCU40H, ION and NEOS Green; hybrid mode for battery charging via 230 Vac power supply and photovoltaic panel, compatible with LCU40H. Includes mounting brackets for 2 batteries (12V-2Ah, 178x35x62mm) for LCU40H panel, NEOS Green motors and QIK7EH barrier. Batteries not included (max 2 x 12V-7Ah). Photovoltaic panel not included (max 20W)
NA**BBU20**	Emergency battery kit. Includes 2 batteries (12 V-2 Ah, 178 x 35 x 62 mm), cabling and IP55 installation box (187 x 261 x 105 mm)
NA**BBU65**	Emergency battery kit. Includes 2 batteries (12 V-7 Ah, 150 x 65 x 95 mm), cabling and IP55 installation box (238 x 357 x 120 mm)

LCU30H - LCU30HJ

LCU40H - LCU40HJ

24 Vdc control panels

	LCU30H - LCU30HJ	LCU40H - LCU40HJ
TECHNICAL SPECIFICATIONS		
Control panel	for 1 or 2 24 Vdc motors	for 1 or 2 24 Vdc motors
Radio module	RCB50E	RCB50E
Radio frequency	433.92 (default) 868.35 Mhz (selectable from jumper)	433.92 (default) 868.35 Mhz (selectable from jumper)
Mains power supply	230 Vac - 50/60 Hz / 120 Vac - 50/60 Hz	230 Vac - 50/60 Hz / 120 Vac - 50/60 Hz
Motor power supply	24 Vdc - 2 x 6 A	24 Vdc - 2 x 12 A
Accessories power supply	24 Vdc - 0.3 A (0.5 A max.)	24 Vdc - 0.5 A
Stroke control	virtual encoder	virtual encoder
Limit switch provision	■	■
Operating temperature	-20°C ÷ +55°C in standard conditions (-35°C ÷ +55°C with NIO enabled)	
Protection level	IP55	IP55
Product dimensions (mm)	187x261x105	238x357x120
INPUTS		
Opening control	shared with step-by-step control, selected via 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	■
Step-by-step control	■	■
Hold-to-run command	■ via display	■
Automatic closing contact management	shared with partial opening control, selected via display	■
OUTPUTS		
Flashing light	24 Vdc	24 Vdc
Electrically operated lock	12 Vdc / 15 W	12 Vdc / 15 W
Gate-open warning light (ON/OFF)	■ shared with electrically operated lock or flashing light	■
Gate-open warning light with proportional blink rate	■ shared with electrically operated lock or flashing light	■
Courtesy light	■ shared with electrically operated lock or flashing light	■ shared with electrically operated lock or flashing light
PROGRAMMABLE FUNCTIONS		
Configuration of programmable functions	display and navigation keys	display and navigation keys
Force adjustment	electronic	electronic
Speed	adjustable	adjustable
Soft Start/Soft Stop	adjustable	adjustable
Braking/Slowing down	adjustable	adjustable
Stop approach	adjustable	adjustable
Adjustable operation open time	adjustable	adjustable
Automatic re-closing time	adjustable	adjustable
Integrated datalogging (counters and recent alarm history)	■ can be viewed on the display	■ can be viewed on the display and on a PC with Amigo SW
Extended datalogging with micro SD (in-depth records for every event)		■ can be viewed on a PC with Amigo SW
FW update	■ using Amigo SW and USBPROG	■ using MicroSD or using Amigo SW and USBPROG
SAFETY AND PROTECTION FUNCTIONS		
Emergency stop	■	■
Safe closing (inversion)	■	■
Safety Test Facility (for automatic safety devices)	■	■
ODS – Obstacle Detection System (causes the gate to stop or to reverse movement when an obstacle is detected)	■	■
NIO - Antifreeze system	■	■
OPTIONAL ACCESSORIES		
Battery continuity operation	■ with SBU	■ with SBU
Possibility of integrated batteries in the control panel		■
Stand-alone solar-powered installation		■ with SBU*
Hybrid solar-powered installation		■ with SBU
8.2 KΩ-resistance safety edge	■ with GOPAV	■ with GOPAV
Magnetic loop detector	■ with LAB9	■ with LAB9

* With SBU it is possible to use photovoltaic panels up to max 20 W to recharge the batteries.
The battery recharging time and the number of possible operations depend on the irradiation conditions

230 Vac control panels

Ditec LCA is the range of multifunction control panels for 1 or 2 230 Vac motors for swing gates (Ditec LCA70 and LCA80), for 1 230 Vac motor for sliding gate, for industrial sectional doors and for barriers (Ditec LCA85).
Thanks to an innovative proprietrary system of constant position estimation **(Ditec Virtual Encoder)**, it is also possible to estimate motors without encoders accurately and safely.
Quick configuration via guided menu (Wizard) and pre-configured operating logics, or punctual configuration of more than 100 customizable parameters, which can be protected by password.
Separate 24 Vac and 24 Vdc accessory power outputs; **radio frequencies available 433.92 MHz (default) and 868.35 MHz (selectable from jumper) thanks to the RCB50E receiver module** (included in LCA70, optional for LCA80/LCA85).

Control panel compatible motors

LCA70 - LCA80	LCA85
CUBIC 6 - TS 35 - PWR50AC	CROSS 18EP - CROSS 18VEP - DOD14

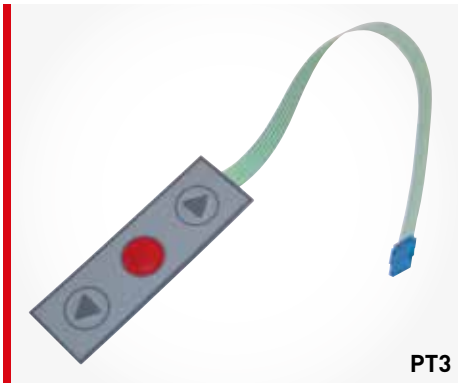
Control panels

Article Code	Description of Article
NA**LCA70**	For 1 or 2 230 Vac motors, 1 x 4 A, 2 x 2 A. RCB50E dual-frequency 433/868 MHz radio receiver
NA**LCA80***	For 1 or 2 230 Vac motors, 1 x 4 A, 2 x 2 A. RCB50E dual-frequency 433/868 MHz radio receiver (not included)
NA**LCA85**	For 1 motor 230 Vac, 1 x 4 A. RCB50E dual-frequency 433/868 MHz radio receiver (not included)

* available while stocks last

Specific accessories

Article Code	Description of Article
NA**RCB50E**	Plug-in 433 - 868 MHz bi-frequency receiver module for control panels with built-in radio decoder. Male connector
NA**PT3**	Optional pushbutton panel for E1A and E1T with 3 keys (open-close-stop)
NA**SES**	Signal processing PCB (to expand control panel functions)



PT3

SES

230 Vac control panels

	LCA70	LCA80	LCA85
TECHNICAL SPECIFICATIONS			
Control panel	for 1 or 2 230 Vac motors	for 1 or 2 230 Vac motors	for 1 230 Vac motor
Radio module	RCB50E	RCB50E (optional)	RCB50E (optional)
Radio frequency	433.92 (default) 868.35 Mhz (selectable from jumper)	433.92 (default) 868.35 Mhz (selectable from jumper)	433.92 (default) 868.35 Mhz (selectable from jumper)
Mains power supply	230 Vac - 50/60 Hz	230 Vac - 50/60 Hz	230 Vac - 50/60 Hz
Motor power supply	230 Vac - 1 x 4 A 230 Vac - 2 x 2 A	230 Vac - 1 x 4 A 230 Vac - 2 x 2 A	230 Vca - 1 x 4 A
Accessories power supply	24 Vdc + 24 Vac - 0.3 A	24 Vdc + 24 Vac - 0.5 A	0.5 A max
Stroke control	End stop detection and time calculation		virtual encoder and limit switches
Limit switch provision		■	■
Operating temperature	-20°C ÷ +55°C in standard conditions (-35°C ÷ +55°C with NIO enabled)		
Control panel protection level	IP55	IP55	IP55
Control panel dimensions (mm)	187x261x105	187x261x105	187x261x105
INPUTS			
Opening 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	■	■
Step-by-step control	■	■	■
Hold-to-run command	■	■	■
Hold-to-run control only in closing. Automatic opening			■
Automatic closing contact management	shared with partial opening control, which can be selected from the display	■	■
OUTPUTS			
Flashing light	230 Vac	230 Vac	230 Vac 25 W max
Electrically operated lock	12 Vac 15 W	12 Vac 15 W	
24 Vdc number of configurable outputs	1	2	2
- gate-open warning light (ON/OFF)	■	■	■
- gate-open warning light with proportional blink rate	■	■	■
- courtesy light	■	■	■
- 24 Vdc led flashing light	■	■	■
- status indicator light for stop, safety, maintenance alarm			■
PROGRAMMABLE FUNCTIONS			
Configuration of programmable functions	display and navigation keys	display and navigation keys	display and navigation buttons
Force adjustment	■ (electronics)	■ (electronics)	■ (electronics)
Braking/deceleration	■	■	■
Approach space before the limit switches		adjustable	adjustable
Approach speed	adjustable	adjustable	adjustable
Thrust on obstructions	adjustable	adjustable	adjustable
Stop approach	adjustable	adjustable	
Operation time	adjustable	adjustable	
Adjustable automatic closing time	adjustable	adjustable	adjustable
Compatibility with hydraulic motors	■	■	
Heavy traffic management	■	■	■
Integrated datalogging (counters and recent alarm history)	■ can be viewed on display	■ can be viewed on display	■ can be viewed on display
FW update	■ using Amigo SW and USBPROG	■ using Amigo SW and USBPROG	■ using Amigo SW and USBPROG
SAFETY AND PROTECTION FUNCTIONS			
Emergency stop	■	■	■
Safe closing (inversion)	■	■	■
Safety Test Facility (for automatic safety devices)	■	■	■
ODS – Obstacle Detection System (causes the gate to stop or to reverse movement when an obstacle is detected)	■	■	■
NIO - Antifreeze system	■	■	■
OPTIONAL ACCESSORIES			
8.2 KΩ-resistance safety edge	■ with GOPAV	■ in opening and closing (terminal connectors already integrated in the control panel)	■ in opening and closing (terminal connectors already integrated in the control panel)
Magnetic loop detector	■ with LAB9	■ with LAB9	■ with LAB9

Ditec ZEN

Ditec ZEN is the new line of 2 channel and 4 channel remote controls.
The transmitters are available in various colours and in two operating frequencies, 433.92 MHz or 868.35 MHz.
Each transmitter is ready to transmit using various protocols: **Ditec rolling code, fixed code, Dip Switch, and the new AES 128-bit Encrypted mode and Protected mode protocols**.
The remote control can be configured in standard mode either by means of acquisition from the receiver or by cloning pre-programmed transmitter, but further additional functionality is available thanks to the **ZENPAD programming unit and the ZEN MANAGER software**

COMPLETE RANGE MAXIMUM PROTECTION PROTECT YOUR BUSINESS

Product range

	number of channels	frequency	capacity
ZEN2, ZEN2W, ZEN2B, ZEN2Y, ZEN2G, ZEN2R	2 Channels	433.92 MHz	50m – 150m
ZEN4, ZEN4W	4 Channels	433.92 MHz	50m – 150m
ZEN2C, ZEN4C	2 Channels – 4 Channels	433.92 MHz	50m – 150m
ZENP2, ZENP4	2 Channels – 4 Channels	868.35 MHz	50m – 150m
ZEN2MT, ZEN4MT	2 Channels – 4 Channels	433.92 MHz	50m – 150m

	Number of combinations	ZEN2, ZEN2W, ZEN2B, ZEN2Y, ZEN2G, ZEN2R ZEN4, ZEN4W, ZEN2MT, ZEN4MT	ZENP2, ZENP4	ZEN2C, ZEN4C
Compatible with MM53200	4,096			■ **
Dip-Switch	1,024	■ *	■ *	■ **
Fixed Code	4,294,967,896	■ *	■ *	■ (default)
Rolling Code	4,294,967,896	■ (default)	■ * / **	
AES 128-bit Encryption	340,282,366,920,938,000,000,000,000,000,000,000,000,000	■ * / **	■ (default)	
PROTECTED mode	340,282,366,920,938,000,000,000,000,000,000,000,000,000	■ *	■ *	

Default = factory setting (can be changed with a manual procedure or via ZENPAD)
* it is possible to change method via ZENPAD
** it is possible to change method with a simple manual procedure

Compatibility with plug-in receivers

Receivers	Dip-Switch	Fixed code	Rolling code	AES 128-bit Encryption	PROTECTED mode
BIXR2	■	■	■	■	■
BIXLR42	■	■	■		
BIXPR2	■	■	■	■	■
ZENXR2	■	■	■	■	■

Ditec ZEN

New-generation remote controls with PLL radiofrequency system and radio receivers

A new generation transmitter with an exclusive design: large pushbuttons and a rounded shape guarantee an improved user experience.
Totally compatible with existing Ditec systems
Optional wall-mounting brackets and car clip.
Complete range: 2 and 4 channel remote control units, with two available frequencies, 433.92MHz or 868.35MHz
Maximum protection: the transmitters are ready to transmit an AES 128-bit encrypted signal that is suitable for safety applications, making it impossible to clone

433 MHz rolling-code* two-channel and four-channel radio transmitter

Article Code	Description of Article
NA**ZEN2**	2-function transmitter. Colour: black
NA**ZEN4**	4-function transmitter. Colour: black
NA**ZEN2W**	2-function transmitter. Colour: white
NA**ZEN4W**	4-function transmitter. Colour: white
NA**ZEN2Y****	2-function transmitter. Colour: yellow
NA**ZEN2R****	2-function transmitter. Colour: red
NA**ZEN2G****	2-function transmitter. Colour: green
NA**ZEN2MT**	2-function transmitter. Colour: black with chrome insert
NA**ZEN4MT**	4-function transmitter. Colour: black with chrome insert

* factory setting (can be changed with a manual procedure or via ZENPAD)
** available while stocks last

433 MHz fixed-code* 2-channel and 4-channel radio transmitter

Article Code	Description of Article
NA**ZEN2C**	2-function transmitter. Colour: black, with white push buttons
NA**ZEN4C**	4-function transmitter. Colour: black, with white push buttons

* factory setting (can be changed with a manual procedure)

868 MHz AES 128-bit encryption* 2-channel and 4-channel radio transmitter

Article Code	Description of Article
NA**ZENP2**	2 function transmitter. Colour: white, with black push buttons
NA**ZENP4**	4 function transmitter. Colour: white, with black push buttons

* factory setting (can be changed with a manual procedure or via ZENPAD)

433 MHz self-learning receivers

Article Code	Description of Article
NA**BIXR2**	Two-channel receiver 433 MHz, 12-24 Vdc, can be plugged into the control panel or card-holding base. Supplied complete with removable BIXMR2 memory module (capacity: 200 users). Compatible with BIXMR
NA**BIXLR42**	Four-channel receiver 433 MHz, 12-24 Vdc, can be plugged into the control panel or card-holding base. It can store up to 1000 codes; output operation can be configured by means of dip-switches (3 stepped/pulsed outputs + 1 timed/pulsed output). Supplied complete with removable BIXMR memory module
NA**G0LR**	433 MHz plug-in receiver module for control panels with built-in radio decoder. Female connector
NA**ZENXR2**	Pre-wired universal receiver 433 MHz, 12-24 Vdc, in indoor or outdoor box. Supplied complete with removable BIXMR2 memory module (capacity: 200 users)

868 MHz self-learning receivers

Article Code	Description of Article
NA**BIXPR2**	Two-channel receiver 868 MHz, 12-24 Vdc, can be plugged into the control panel or card-holding base. Supplied complete with removable BIXMR2 memory module (capacity: 200 users). Compatible with BIXMR

Bi-frequency 433/868 MHz plug-in receiver modules

Article Code	Description of Article
NA**RCB50E**	Plug-in 433 - 868 MHz bi-frequency receiver module for control panels with built-in radio decoder. Male connector
NA**RCB100E**	Plug-in 433 - 868 MHz bi-frequency receiver module with built-in Bluetooth for control panels with built-in radio decoder. Male connector

Accessories

Article Code	Description of Article
NA**ZENSC**	Wall or car clip for ZEN transmitters (not compatible with ZEN2MT and ZEN4MT)
NA**ZENKW2**	ZEN2 Wired transmitter complete with wall bracket
NA**BIXMR**	Plug-in type memory module. Capacity: 1000 users
NA**CONT1**	Card-holding base with casing for inside/outside fitting for 1 Ditec accessory board
NA**GOL148REA**	External aerial 433 and 868 MHz
NA**CARG58100**	100 m RG58 cabling for the aerial

ZEN2 - ZEN4

ZEN2W - ZEN4W

ZEN2Y - ZEN2R - ZEN2G

ZEN2MT - ZEN4MT

ZENP2 - ZENP4

ZEN2C - ZEN4C

ZENXR2

RCB50E - RCB100E

ZENKW2

GOL148REA

BIXR2 - BIXPR2

ZENSC

Dimensions

Ditec ZENPAD and ZEN MANAGER

USB programming unit and configuration software

Ditec ZENPAD is a USB programming unit which, thanks to the **ZEN MANAGER** dedicated software, can be used to configure Ditec ZEN transmitters and memory modules for BIXMR/BIXMR2 radio controls simply using a PC.

SYSTEM FUNCTIONS

ZEN MANAGER is a complete software that enables installation management at three levels:

Transmitter menu:
In the appropriate section it is possible to manage all the functions associated with transmitters and radio control devices
- display the factory model and code
- read the configuration
- new configuration
- restore the factory configuration
- configure a multi-protocol remote control: each key can be configured independently using a different language (fixed code, rolling code, encrypted AES 128-bit, protected mode)

Receiver menu
The following operations can be carried out for each memory module:
- check the list of authorisations of associated transmitters
- read the data and list of the transmitters with the possibility to add a new transmitter, change the channel configuration, transfer the list to an archive or a memory module (BIXMR - BIXMR2)
- backup and create a database of remote control units on a PC
- write a new list of remote controls into a memory module (BIXMR - BIXMR2)
- reset
- possibility to organize memory modules by installation to which they belong

Installation menu
Total management of each installation:
- installation information: date of installation, description, location, etc.
- display of plants on an interactive map
- registration of maintenance interventions on the plant
- possibility to generate a report in .csv format, that can be imported into excel
- possibility to attach files in the database (.txt, .doc, .docx, .xls, .xlsx, .csv, .pdf)

Protected mode, for business protection

Thanks to the ZENPAD programming unit it is possible to assign a unique installation code to a memory module that will be associated with all the remote control units that belong to such module (protected mode).
In this way it is possible to create transmitters that are already programmed and ready for use that will be added, or that will replace, or cancel, existing transmitters

SYSTEM REQUIREMENTS

- Personal Computer with Windows 10 operating system
  WARNING: compatibility with the Windows 11 operating system is not guaranteed in all cases.
  Please consult our technical sales department for preliminary verification
- RAM memory: minimum 8 GB
- hard disk storage space: minimum 2 GB
- administrator rights required on the PC where you want to run the installation

Programming unit

Article Code	Description of Article
NA**ZENPAD**	Programming unit for 433 MHz / 868 MHz ZEN transmitters and digital selector keypads. Rapid programming of memory modules. ZEN MANAGER is available in the download area of www.ditecautomations.com site.

System architecture

Dimensions

Digital selector switches and keypads

AXK4 (433.92 MHz) and **AXK4P** (868.35 MHz) are digital radio keypads for the automation control via 4 customizable numeric codes. Two power supply options: with 9 VDC battery or via 24 VDC control panel connection. Configurable via pushbuttons keypad or ZEN Pad and ZEN MANAGER. Back-lit keyboard and integrated light for status signals.

Key-operated selector switch on wall **(AXK5M)** and semi-recessed **(AXK5I)** with European cylinder. Burglar-proof with metal body, microswitches electrical contacts protected by a metal container, semi-recessed version compatible with standard ø 57 mm boxes. Version without cylinder available.

Digital selector keypads

Article Code	Description of Article
NA**AXK4**	Digital radio keypad with 4 customizable numeric codes. Version 433.92 MHz. Powered by 9 Vdc battery (included) or by connection to 24 Vdc electronic control panel. Configurable via keys or ZEN Pad. Compatible with Ditec radio protocols: fixed code, rolling code, Encrypted AES-128 bit, PROTECTED Mode
NA**AXK4P**	Digital radio keypad with 4 customizable numeric codes. Version 868.35 MHz. Powered by 9 Vdc battery (included) or by connection to 24 Vdc electronic control panel. Configurable via keys or ZEN Pad. Compatible with Ditec radio protocols: fixed code, rolling code, Encrypted AES-128 bit, PROTECTED Mode

Key-operated selector switches

Article Code	Description of Article
NA**AXK5M**	Key-operated selector switch on wall with European cylinder. Burglar-proof with metal body. Microswitch double electrical contact
NA**AXK5I**	Key-operated selector switch semi-recessed with European cylinder. Burglar-proof with metal body. Compatible with standard 57 mm diameter boxes. Microswitch double electrical contact
NA**AXK5NM**	Key-operated selector switch on wall without European cylinder. Burglar-proof with metal body. Microswitch double electrical contact
NA**AXK5NI**	Key-operated selector switch semi-recessed without European cylinder. Burglar-proof with metal body. Compatible with standard 57 mm diameter boxes. Microswitch double electrical contact

Pushbutton panel

Article Code	Description of Article
NA**PB3**	Wall-mounted control keyboard with three buttons (Open - Stop - Close), complete with connection card for control panel with/without direct connection for external keyboard

Vertical mounting and base for fixing

Article Code	Description of Article
NA**AXC50**	Vertical mounting for outdoors in die-cast aluminium, height 500 mm
NA**AXC100**	Vertical mounting for outdoors in die-cast aluminium, height 1000 mm. Lens included in the package to install added photocell (LIN2 type)
NA**AXCBS**	Base for fixing for AXC vertical mounting
Compatible with AXP2 photocells, semi-recessed key-operated selectors, 4-channel digital radio keypad, RFID proximity reader	

AXK4 - AXK4P

AXK5M

AXK5I

AXK5NM

PB3

AXC50 - AXC100 - AXCBS

Transponder proximity control system

Ditec AXR7 is a control system that uses transponder RFID technology that enables reading and recognition of a coded button or card by proximity or swiping.
The coded information is electromagnetically exchanged. Codes are saved in the memory using a simplified learning procedure.
AXR7 can be installed on a wall or on an AXC100 anodised aluminium column.

Transponder proximity control system

Article Code	Description of Article
NA**AXR7**	RFID transponder proximity selector. For external mounting. Maximum reading distance with ISO cards: 60 mm. Max reading distance with button: 30 mm
NA**LAN7S**	Microprocessor PCB decoder, able to control 1 or 2 AXR7 units Output contact: 1 N.O. contact - Memory size: 508 codes Power supply: 24 Vdc - Power input (with 1 AXR7): 100 mA LAN7S - AXR7 max. connection distance: 100 m
NA**LAN7K**	Single PIN button
NA**LAN7B**	ISO card, with single code, white (printing on card carried out by customer)
NA**CONT1**	Card-holding base with casing for inside/outside fitting designed to hold 1 Ditec accessory board

AXR7

LAN7S

LAN7K - LAN7B

CONT1

Magnetic-loop inductive detector, and token-based control device

The **Ditec LAB9** magnetic loop detector starts up the opening process of an automatic access system: it detects the passage or the presence of vehicles above the magnetic loop that is located in the ground, causing a **change of inductance with the resulting activation of the opening command of the automation system**.

Ditec LAN60, the practical token-operated control device, is a **coded-print token-operated system:** by inserting a token in the appropriate slot the system checks the code, the size and the weight. When a token is recognised, it is channelled along a path closing an electrical contact and activating an external electrical circuit. The token is collected in a container that is only accessible with a coded key. Unrecognised tokens are automatically rejected and returned.
The mechanism is also equipped with an anti-tampering device.
This device is suited for simple access/exit control.

Magnetic loop inductive detector

Article Code	Description of Article
NA**LAB9**	24 Vdc plug-in single magnetic-loop inductive detector for entrance control, complete with: self-calibrating system, automatic sensitivity booster, various selectable operational frequencies (inductive loop not included)
NA**CONT1**	Card-holding base with enclosure for inside/outside fitting for 1 Ditec accessory board

Token-operated control system

Article Code	Description of Article
NA**LAN60**	Coded-print token-operated system aluminium body containing token box and token-holder tray sheet metal cover and supporting column painted with RAL 9007 colour Complete with base and fixing support feet. Dim. 1.2 m x 150 mm x 160 mm
NA**LAN60K**	Coded print token for LAN60

LAN60K

LAB9

Dimensions

LAN60

Photocells

Ditec AXP2, LIN2 e LAB4 are safety devices using modulated infra-red ray. These devices which operate on a double relay system, are compliant with the most stringent technical standards as required by applicable regulations. They are reliable over time and simple to install thanks to a different design that adapts to all types of installation:

- photocell AXP2 aesthetically matches the other control devices.
- photocell LIN2 with 3-positions orientable card is particularly suited for small vertical mountings and installations within a passageway thanks to its limited dimensions.
- photocell LAB4 is ideal for industrial applications. Version with a battery-operated transmitter

AX photocells

Article Code	Description of Article
NA**AXP2**	Pair of photocells for outside fitting Max. capacity: 30 m - power supply: 24 Vdc / 24 Vac
NA**AXC50**	Vertical mounting for outdoors in die-cast aluminium, height 500 mm
NA**AXC100**	Vertical mounting for outdoors in die-cast aluminium, height 1000 mm. Lens included in the package to install added photocell (LIN2 type)
NA**AXCBS**	Base for fixing for AXC vertical mounting

Compatible with AXP2 photocells, semi-recessed key-operated selectors, 4-channel digital radio keypad, RFID proximity reader

LIN photocells

Article Code	Description of Article
NA**LIN2**	Pair of slim photocells for outside fitting - with card that can be oriented in three positions. Max. capacity: 30 m - Power supply: 24 Vdc / 24 Vac
NA**LIN2B**	Pair of slim battery photocells for outside fitting - with card that can be oriented in three positions. Max. capacity: 20 m. Power supply: battery (included)
NA**LINCB**	Anodised aluminium vertical mounting 0.5 m for LIN2 and LIN2B
NA**LINBS**	Base for LINCB

LAB photocells

Article Code	Description of Article
NA**LAB4**	Pair of photocells for outside fitting - can be installed on the side. Max. capacity: 30 m - Power supply: 24 Vdc / 24 Vac IP 55 protection level
NA**LAB4S**	Pair of photocells for outside fitting - can be installed on the side. Max. capacity: 20 m - Power supply: battery (included) IP 55 protection level

AXC50 - AXCBS

AXC100 - AXCBS

LINCB

LINBS

Dimensions

AXP2

LIN2 - LIN2B

LAB4 - LAB4S

Flashing lights

Ditec FL is the line of flashing lights with a card-integrated LED. Suitably configured, they can communicate automation-system movement or when a specific maintenance threshold is reached (with the last generation LCU control panels or as integrated in NEOS and TOP).
Available in two versions, **one multi-voltage version with the flashing function that can be selected via jumper and a 24 Vdc version**, they come complete with 4 coloured tubes to customize notifications (white, blue, green, yellow, orange).
With appropriate mountings it is possible to install them on a wall or on small vertical columns (7cm).
Thanks to their refined design and their reduced dimensions they can be adapted to any type of installation.

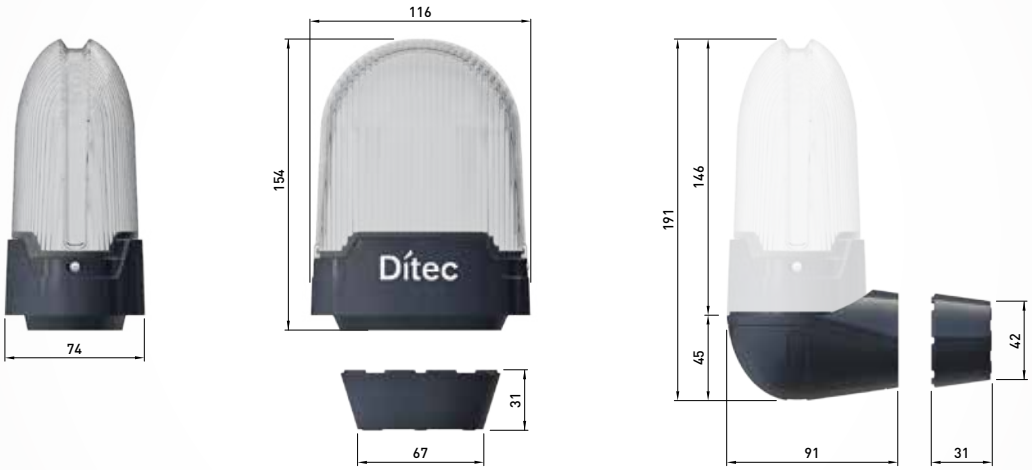
Flashing lights

Article Code	Description of Article
NA**FLM**	Multi-voltage flashing light for 24 Vdc - 120 Vac - 230 Vac with programmable flashing function. IP44 protection level (coloured tubes included in the packaging)
NA**FL24**	24 Vdc flashing light with flashing controlled by the electronic control panel - IP44 protection level (coloured tubes included in the packaging)
NA**FLSP**	Wall mounting kit and flashing light stand

FLM - FL24

FLSP

Dimensions



Passive safety edges and microswitch active edge

Passive safety edges available in a preassembled version or to be assembled. Preassembled **flush active edge** with mechanical contact and redundant microswitches. Does not require a control card but can be connected directly to the NC contact of the control panel.

PREASSEMBLED PASSIVE EDGE AND ACTIVE EDGE - READY FOR USE

Passive, H = 70 mm

Article Code	Description of Article
NA**SOFAP20**	Preassembled safety passive edge - L = 2000 mm

Flush, with mechanical contact, H = 75 mm

Article Code	Description of Article
NA**SOF3M20**	Flush active edge with mechanical contact and redundant microswitches L = 2000 mm

PASSIVE EDGES TO BE ASSEMBLED

Passive, H = 30 mm

Article Code	Description of Article
NA**RHIPBG50**	Rubber profile for passive safety edge (50 m roll)
NA**VCSOBAN20**	Aluminium profile for passive safety edge (2 m bar)
NA**HIPBTA**	Rubber cap for passive safety edge

SOFAP20

SOF3M20

Active safety edges automatically tested by controlling devices

Complete line of resistive active edges 8.2 KΩ available in various thicknesses and lengths, preassembled and to be assembled.
Suitably installed, safety edges are used to eliminate the risk of shearing or crushing as they **immediately block or invert any wing movement automatically**.
There are two types of resistive active edges available: a micromechanical method that is activated by the tension of a wire and a method based on internal conductive blades with high-efficiency physical contact
The plug-in or 868 MHz radio connected control devices guarantee reliability and intrinsic safety against any type of fault (e.g. damage or a short circuit) to the extent of achieving the certification of SOFA and SOFB active edges in category 2 of the EN 954-1 standard.

SELF-TESTING, 8.2 KΩ RESISTIVE SAFETY EDGES - PREASSEMBLED, READY FOR USE

Active and flush with mechanical contact, H = 75 mm

Article Code	Description of Article
NA**SOF2M20**	Preassembled resistive active edge flush with mechanical contact L = 2000 m

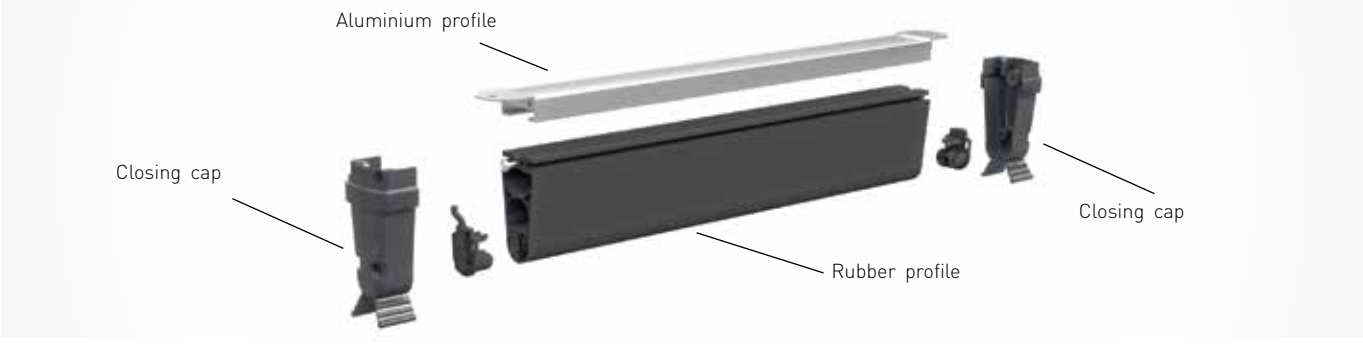
Active, permanent distance with high-efficiency physical contact, H = 80 mm

Article Code	Description of Article
NA**SOFA15**	Preassembled active resistive edge L = 1500 mm
NA**SOFA20**	Preassembled active resistive edge L = 2000 mm
NA**SOFA25**	Preassembled active resistive edge L = 2500 mm

SELF-TESTING, 8.2 KΩ RESISTIVE SAFETY EDGES - TO BE ASSEMBLED

Active, permanent distance with high-efficiency physical contact, H = 80 mm

Article Code	Description of Article
NA**VGR505045**	Active rubber profile for assembling SOFA edges, L = 4.5 m
NA**V2481N60**	Active aluminium profile for assembling SOFA edges, L = 6 m
NA**SOFTA**	Set for SOFA edge, H= 80 mm including: sealed closing cap complete with cabling and terminal closing cap with an 8.2 KΩ resistance
NA**SOFTC**	SOFA edge connecting cabling - L = 5000 mm



CONTROL DEVICE FOR SOF2M, SOFA, SOFB ACTIVE EDGE

Bi-directional 868-869 MHz radio transmission system for security signal transmission*

Article Code	Description of Article
NA**GOPAVR**	Fixed, double-function transceiver unit for monitoring fixed edges or moving edges, in conjunction with one or more GOPAVT mobile units (max. 10)
NA**GOPAVT**	Mobile battery-driven transceiver unit, double function for monitoring moving edges
NA**GOPAVRS***	Plug-in, double function transceiver unit for monitoring fixed edges or moving edges, in conjunction with one or more GOPAVT mobile units (max. 10)
NA**CONT1**	Card-holding base with casing to be internally or externally installed to insert 1 Ditec accessory board

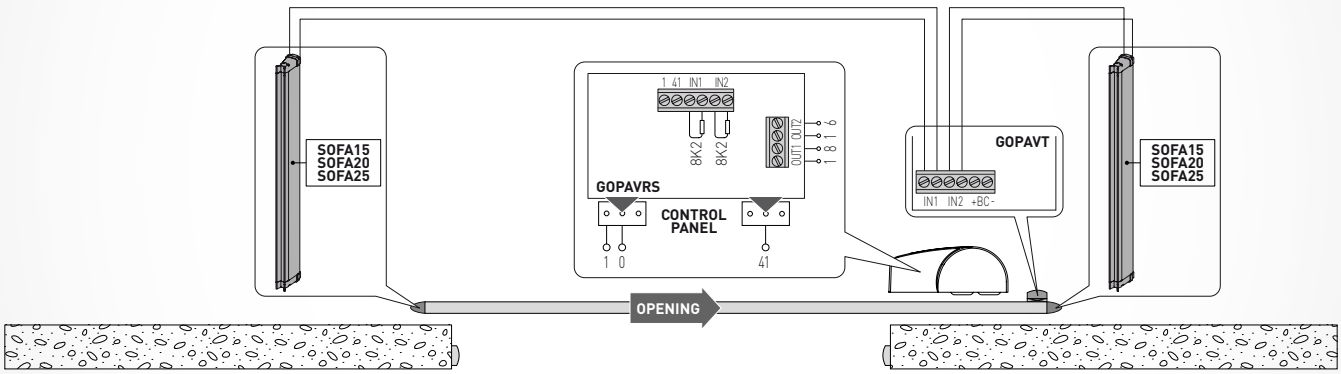
* as an alternative to the SOFA1 / SOFA2 electronic control card

SOFA20 + cabling

GOPAVR - GOPAVT

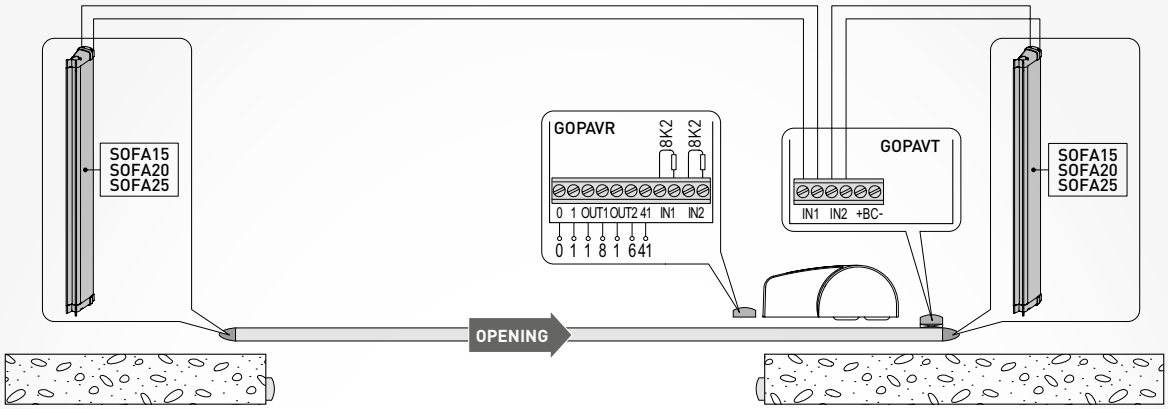
Ditec GOPAV - Typical configuration

GOPAV system on sliding gate with moving safety edges

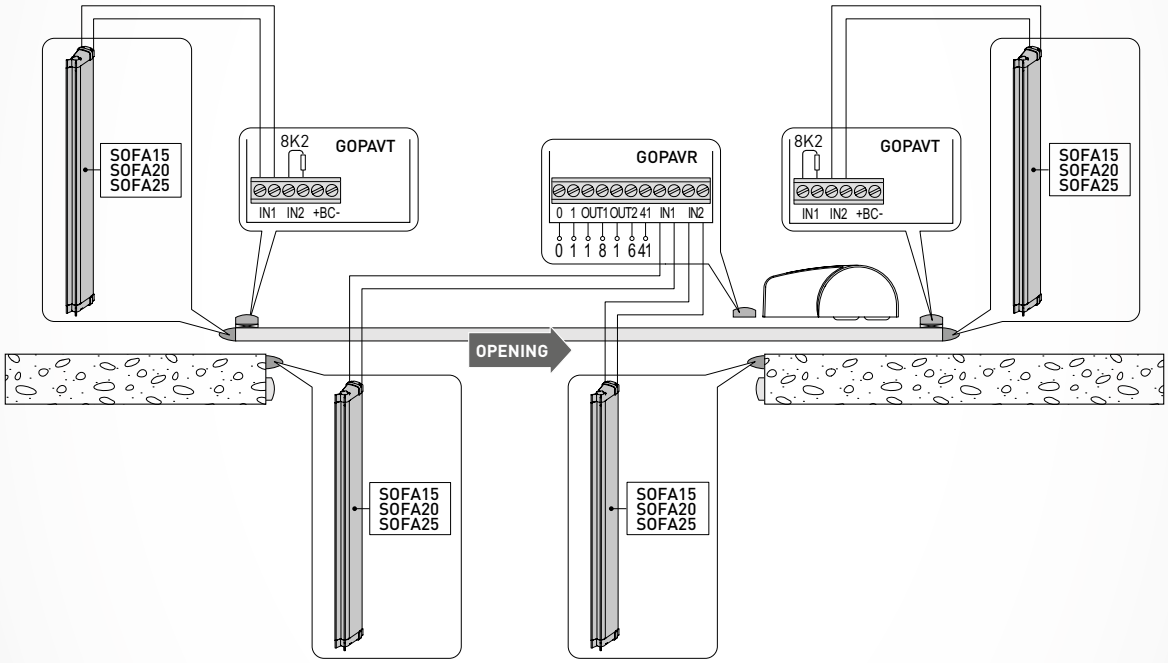


Ditec GOPAV - Typical configuration

GOPAV system on sliding gate with moving safety edges



GOPAV system on sliding gate with moving and fixed safety edges



Dimensions

GOPAVT - GOPAVR

CONT1

Ditec tools for professionals

Ditec offers its customers some tools that, during installation, facilitate the configuration and updating of devices.

USBPROG: micro-USB interface to update Ditec control panels

PWRMI: installation mounting tool for electromechanical actuators

ZENPAD: programming unit for 433 MHz / 868 MHz ZEN transmitters

Control panel update interface

Article Code	Description of Article
NA**USBPROG**	Micro-USB interface to update Ditec control panels. Via SW Amigo, compatibility with LLCU30H, CS12E, LCU48, LCA70, LCA80, LCA85, LCU43. Via SW FlashIT, compatibility with LCU50DC, LCU60E, LCU55. It uses the SW available **for free** in the download area of www.ditecautomations.com site. For firmware updated files, please consult our Technical Sales Department

Installation mounting tool

Article Code	Description of Article
NA**PWRMI**	Installation mounting tool for electromechanical actuators

Programming unit

Article Code	Description of Article
NA**ZENPAD**	Programming unit for 433 MHz / 868 MHz ZEN transmitters Rapid programming of memory modules. ZEN MANAGER is available **for free** in the download area of www.ditecautomations.com site

USBPROG

PWRMI

ZENPAD


Dítec

06

CONNECTIVITY SOLUTIONS

Ditec Smart Connect

Ditec Smart Connect

Ditec Smart Connect is the new system to manage entrances via App or PC, remotely or locally.

The hub, mounted close to the garage or gate operator, is the core of the system. Thanks to the Wi-Fi 2.4 GHz it can be connected to a WLAN, alternatively to a LAN using a USB/Ethernet adapter and it can control up to 3 operators. Wireless sensors send the status of the access: open, close, left open, obstruction. By integrating the indoor-outdoor Wi-Fi-Ethernet Camera, it is possible to view HD real time video while managing the access. **The system is not only perfect for new installation but also ideal for retrofit market.**

UNIVERSAL

REMOTE & VOICE CONTROL

EASY TO INSTALL

Kit with tilt sensor

Article Code	Description of Article
NE**ESCWT***	Set contains 1 Ditec Smart Connect Hub and 1 tilt sensor

Kit with magnetic sensor

Article Code	Description of Article
NE**ESCWM***	Set contains 1 Ditec Smart Connect Hub and 1 magnetic sensor

Wireless tilt sensor

Article Code	Description of Article
NE**WTILT***	Additional wireless tilt sensor with temperature sensor. Recommended for sectional door and up-and-over door. Waterproof IP65, battery included

Wireless magnetic sensor

Article Code	Description of Article
NE**WMAGN***	Additional wireless magnetic sensor with temperature sensor. Recommended for sliding gate, swing gate, folding gate, side sectional door, roller door, swing door. Waterproof IP65, battery included

Indoor & Outdoor Camera

Article Code	Description of Article
NE**IPCAM1***	Mini bullet Indoor & Outdoor camera, waterproof IP66, HD 720p, H.264 Video compression, day/night with infrared LED, motion detector, IR range 20 m. Connections: Wi-Fi 802.11 b/g/n and Ethernet port, external speaker output and external microphone input

* available while stocks last

Entrematic Smart Connect App

App to configure and control Ditec Smart Connect system. For free on PLAY store (for Android phone) and App store (for iOS)

Entrematic CAM App

App to configure and control Ditec Indoor & Outdoor Cameras. For free on PLAY store (for Android phone) and App store (for iOS)

ESCWT

ESCWM

WTILT

WMAGN

IPCAM1

App Entrematic Smart Connect

App Entrematic CAM

Quantity per pallet

Article code	Pallet [pieces]
AIR600B	54
AIR1000B	54
ARCBH	36
ARC1BH	36
BOX3H	24
CROSSCRI	500
CROSS18EP	14
CROSS18VEP	14
CROSS20VEI	14
CR4N4	500
CR4N6	500
CUBIC6	36
CUBIC6C	20
CUBIC6H	36
CUBIC6HV	36
DITCBC	20
DITCB230PL	12
DITCB230PLS	12
DITCB24L	12
DITCB24LS	12
DITION4BL	20
DITION4BLS	20
DITION6BL	20
DITION6BLS	20
DITPWR25HL	9
DITPWR25HLS	9
DITPWR35HL	9
DITPWR35HLE	9
DITPWR35HLS	9
DITS35L	20
DITS35LS	20
DITNEOS500GL	18
DITNEOS500GLS	18
DITNEOS800GL	18
DITNEOS800GLS	18
DOD14	36
DOITBXBL	24
DOITDD1P	24
DOITFCL	8

Article code	Pallet [pieces]
DOITFCLS	8
DOR1BH	36
DOR1BHS	36
FACIL3TH	18
FACIL3H	18
ION4	20
ION4J	20
ION6	20
ION6J	20
K2TS35AC	20
NEOS500G	18
NEOS800G	18
NEOS1000G	18
NEOS1000GJ	18
PWR25H	36
PWR35H	36
PWR50AC	36
PWR50H	36
PWR50HR	36
PWR50HV	36
QIKY7EH	9
QIK7EH	9
QIK7EHJ	9
QIK80EH	4
TS100X3	72
TS100X4	60
ZENP2	500
ZENP4	500
ZEN2	500
ZEN2C	500
ZEN2MT	160
ZEN2W	500
ZEN4	500
ZEN4C	500
ZEN4MT	160
ZEN4W	500

GENERAL TERMS AND CONDITIONS OF SALE

1. Introduction

1.1 These general terms of sale ("**Terms of Sale**") govern the relationship between Ditec SpA, with registered office in Milan, Via Vittor Pisani, 20, Tax Code and VAT number 00360610125, and the customer (respectively "**Ditec**" and the "**Customer**"). Unless otherwise agreed in writing between the parties, these Terms of Sale supersede and prevail over any prior agreement, proposal or agreement, both written and oral, between the parties, including, but not limited to, any terms and conditions of the Customer.

2. Purchase Orders

2.1 The purchase order ("**Order/s**") submitted by the Customer to Ditec has the nature of irrevocable contract proposal with binding effect on the customer until the date indicated on the Order confirmation (sent by Ditec in writing by letter, fax or e-mail) and indicating the expected date of consignment.

2.2 Unless otherwise agreed, the estimate submitted by Ditec to the Customer will be valid for 30 (thirty) days from their issue ("**Estimate/s"**). The acceptance of the Estimate by the Customer, received by Ditec within the said period, involves the issuance of an order having the same nature referred to in point 2.1. The Order issued on the basis of an Estimate will constitute full acceptance of the Estimate in all its terms and conditions and any reduction or increase of the supply, being subject matter of the Estimate, will be valid if expressly indicated in the Order.

2.3 The signing of the Order by the Customer constitutes an express, full and unconditional agreement to these Terms of Sale, without prejudice to any different agreement executed in writing between Ditec and the Customer.

2.4 Any advance payments made by the Customer shall be deemed paid as a deposit, guaranteeing all obligations of the Customer under these Terms of Sale; the acceptance of the said deposit by Ditec shall not be regarded as acceptance of the order.

2.5 The Order is binding on Ditec exclusively upon express acceptance by this latter of the content of the Order. Ditec's acceptance shall be sent to the Customer within the period of effectiveness of the proposal referred to in point 2.1 above and by means of a written confirmation of the Order, sent by Ditec by letter, fax or e-mail.

2.6 In the event of non-acceptance in writing, the execution of orders by Ditec, within the period of effectiveness of the proposal referred to in point 2.1 above, shall be regarded, in any case, as tacit acceptance of Orders received.

3. Prices

3.1 The sales prices of the products are those resulting from the official price list of Ditec in force at the date of the submission of the Order ("**Price List**") and they are net of value added tax and of any additional tax. The Price List shall be the reference basis for any commercial negotiation. The total amount of the Order calculated on the basis of the Price List determines the value of the Price List, to be taken as reference basis for the application of any discount.

3.2 In the case of an Order issued on the basis of an Estimate, the price of supply will be equal to the price indicated in the Estimate.

3.3 Any discount on the price of supply may be granted by Ditec to the Customer on the basis of arrangements separately agreed with the Customer.

4. Delivery

4.1 Unless otherwise agreed between Ditec and the Customer, the delivery of the products, subject to the Order, is made EX WORKS at warehouses indicated by Ditec on the confirmation Order ("**Delivery Terms**"). The products are made available to the customer in the standard packaging provided by Ditec. The property of the products ordered and the risk of loss or damage to them shall pass to the Customer at the time of the receipt at the place of delivery specified in the Order and in accordance with the agreed Delivery Time.

4.2 The deadline for the collection of products will be indicated by Ditec in the acceptance of the Order.

4.3 If the Customer fails to collect the goods at the date indicated by Ditec in the acceptance of the Order, it will be liable vis-à-vis Ditec for any loss resulting from such failure or refusal. In case of failure to collect the products persisted for more than seven (7) days starting from the scheduled day for the collection, Ditec reserves the right to cancel, in whole or in part, the Order, or the right to terminate the entire supply pursuant to Article 1456 of the Civil Code and to ask, in both cases, compensation for damage.

4.4 At the time of the taking over and collection of the products, the Customer, in the exercise of its ordinary business activity, but without undue delay, is required to check on the identity, quantity, integrity and appearance of products and to report to Ditec any apparent deviations or defects. Deviations or defects that were not immediately identified at the time of inspection shall be notified to Ditec at the time of their discovery and, anyway, within the legal deadlines.

5. Testing

5.1 The testing of the products of the Order shall be carried out by the Customer at its own costs and responsibility. With reference to the type of product purchased, the testing carried out by the Customer shall be as specified in the technical drawings or in the testing specifications drafted and provided by Ditec.

6. Warranty

6.1 Ditec provides the legal product warranty.

6.2 In the case of proven material defects of products of an Order, and only to the extent that they are covered by the legal warranty and in accordance with the terms and conditions set forth therein, Ditec will, as appropriate and solely for the benefit of the Customer, replace the defective product or refund the price paid for the same.

6.3 The claim under warranty will be accepted exclusively upon occurrence of all the conditions set out below:

- the presence of the defect is verified and confirmed in writing by Ditec;

- the Customer and/or end user must not have used the product or performed and/or attempted to perform any corrective action of the defect without the express written approval of Ditec;
- the Customer and/or end user must not have - with, also ordinary, negligence - stored and/or transported the product and must have correctly applied all provisions provided by the accompanying documents, including security documents, technical documents etc., made available to them;
- the defect is not due to the Customer and/or the end user's behaviour;
- the product has been duly paid within the time specified in the invoice.

7. Returns and replacements

7.1 Ditec does not accept returns and/or replacements of the purchased products, unless differently agreed in writing with the Customer. It is understood that in the event of a return or replacement, shipment costs will be entirely charged to the Customer and the product shall be returned in optimum condition and in its standard packages supplied by Ditec at the time of collection, Ditec reserving the right to charge, anyway, to the Customer the price of the products that are damaged. The quantity of the products returned and/or replaced shall be analytically shown in the related shipment document together with the relevant tax document.

8. Invoicing and payment

8.1 Ditec will issue the invoice concerning a certain Order according to the trade agreements with the Customer and as indicated in the acceptance of the Order. All invoices will refer to the related Order and will include the information required by law.

8.2 The Customer shall pay the purchase price of the products subject to the Order within the deadline provided by the invoice, by bank transfer to the bank account details communicated by Ditec. The Customer may not withhold any part of the price as offset, counterclaim or for any other reason.

8.3 The Customer being in delay in payments will be considered in breach and will be charged with interest in accordance with Legislative Decree n. 231/2002, without the need for formal notice, starting from the date the invoice is due until actual payment, without prejudice to the right of Ditec to recover expenses incurred and to demand the compensation for damage.

8.4 In the event of non-payment persisted by the Customer for more than 7 (seven) days after the expiration of the deadline specified in Ditec's invoice, the latter reserves the right to terminate the contract under the Order pursuant to Article 1456 of the Civil Code, without prejudice to compensation for any damage.

9. Drawings and technical documentation

9.1 Drawings and technical specifications of the products subject to the Order are of the exclusive property of Ditec and cannot be reproduced, copied or distributed for any reason. Drawings and technical documents relating to the products or their manufacture, installation or technical verification will not be used - without Ditec's written consent - for purposes other than the ones for which they have been supplied. Without Ditec's consent, the same drawings and documents cannot be otherwise used or copied, reproduced, sent or communicated to third parties or used for the manufacture, design or any other unauthorized purpose, unless expressly accepted by Ditec.

9.2 Ditec reserves the right to make at any time any necessary changes to the drawings and technical documents supplied along with the products.

9.3 Usage limits refer to use with maximum load under standard conditions. Recommended load is approximately 2/3 of maximum load.

10. Intellectual and/or industrial property rights

10.1 The industrial and/or intellectual property rights such as trademarks, logos, patents, signs, whether registered or not, affixed to the products and to all their explanation documents, manuals, technical specifications and other information supplied by Ditec along with the products or in relation to them, shall remain of the exclusive property of Ditec and/or of the relevant owners.

10.2 The Customer will be obliged to indemnify Ditec in respect of any damage, claim, cost and expenses that it may suffer and/or incur as a result of any breach and/or alleged breach by the Customer of patents, trademarks, logos, copyrights, industrial designs, registered and unregistered, and/or any other intellectual and/or industrial property rights.

11. Liability

11.1 The Customer undertakes to use the products purchased from Ditec in accordance with their intended use and to comply with all the rules and procedures of use provided by the technical documentation supplied by Ditec. Ditec will not in any way be liable for defaults, direct and/or indirect damages and losses suffered by the Customer, including its employees, collaborators and/or successors in title, due to injuries, death and/or property damage arising from the use of the products. Under no circumstances Ditec will be liable for damages caused to the Customer itself or to others by negligence, carelessness or inexperience of the Customer after the delivery of the products.

11.2 To this purpose, the Customer declares and agrees to guarantee, indemnify and hold harmless Ditec (including parent companies, subsidiaries, related companies, branches and affiliated companies, their successors in title and assignee), in respect of any claims, costs, lawsuits, proceedings, action, liability, loss, expense, order, decree, rights and legal fees, court costs, including damages of any kind deriving, connected or arising from any actual or alleged personal injury (including death), damage to property or loss of any kind that are assumed to be caused by the use incorrect and/or non-compliant of the products.

12. Force Majeure

12.1 Ditec will not be deemed in default and/or liable vis-a-vis the Customer if it does not perform or delay the delivery of the products as a result of an event beyond its reasonable control, including, but not limited to, strikes, conflicts between employers and employees, fires, floods, natural events, wars, insurrections, vandalisms, sabotage, invasions, insurrections, national emergencies, piracy, hijacking, acts of terrorism, embargoes or restrictions, extreme weather or traffic conditions, temporary closures of roads, laws, regulations, orders or other government's acts or government agencies' acts.

13. Organizational Model pursuant to Italian Legislative Decree no. N. 231/2001 and Ditec's code of conduct

13.1 The Customer declares to have read and to know the content and obligations referred to in the organizational and management model pursuant to Italian Legislative Decree no. n. 231/2001 and in the code of conduct adopted by Ditec and undertakes, also on behalf of its employees and/or collaborators and its affiliated companies, to observe and to comply with – and to cause compliance with - the rules, the procedures and the principles contained in the mentioned documents, as well as to the law provisions relating to anti-bribery, sanctions and export controls.

A copy of the Code of Conduct can be requested at any time to our sales representatives or to our Customer Service.

The Customer also declares and guarantees that neither the Customer itself nor its affiliated companies nor any of its employees/collaborators/directors, is or is owned/controlled by any person subject to the sanctions or export controls of United Nations, United States of America and/or European Union or any other governmental authority and that, in any case, it will not be engaged in any commercial relationship involving these entities and will promptly inform Ditec of any breach of the foregoing, as soon as it becomes aware of it.

13.2 In case of non-compliance by the Customer with the law or with Ditec's Organizational Model and Code of Conduct and, in general, with the provision under point 13.1, Ditec will be entitled to suspend the execution of the contract and to terminate the contract under these Terms of Sale pursuant to article 1456 of the Civil Code, without any prejudice to the right to ask for compensation for damages arising from the breach.

14. Changes of the Terms of Sale

14.1 These Terms of Sale may be amended by Ditec also depending on any changes in applicable legislation. The Terms of Sale, as amended, will become an integral part of the relationship between Ditec and the Customer as a result of the acceptance of them upon submission of the first Order following the amendment itself.

15. Duration

15.1 These Terms of Sale, without prejudice to what described in point 14.1 above, have an indefinite duration and shall be applied to all the Orders submitted by Customer.

16. Partial invalidity

16.1 The eventual invalidity or unenforceability of a single clause in these Terms of Sale shall not affect or invalidate any other provision provided herein and both parties undertake here and now to replace the term recognized as invalid or ineffective with another term which has, as far as possible, the same or similar effects.

17. Personal data protection

Pursuant to Article 13 of Legislative Decree no. 196/2003, Ditec, as data controller, informs the Customer that the personal data ("**Data**") collected simultaneously with the forwarding of the Orders will be processed for the purpose of the execution by Ditec of the activities necessary to the conclusion, management and execution of the Orders and, in general, for the purpose of the proper performance of the supply contract with the Customer, as well as for the purpose strictly connected and/or necessary to the satisfaction of the requests made from time to time by the Customer and for the fulfillment of the obligations provided by laws, regulations and European legislation, as well as provisions given by authorities legally empowered to do that or by vigilance and control's bodies.

With reference to the above purposes, the processing of Data will be carried out by manual and computerized instruments, in a way strictly linked to such purposes and for the time necessary to fulfill them, as well as, in any case, in a way able to ensure the security and confidentiality of Data through proper procedures that avoid the risk of loss, unauthorized access, improper use and dissemination of Data. In this regard it should be noted that the collection of the Data is required in order to fulfill the above purposes with the result that, in such circumstances, any refusal of provision of Data will make it impossible for Ditec itself to meet the demands or the choices of Customers.

For the offer of certain services and/or for the performance of certain activities, the processing of Data is carried out both by Ditec directly and by parties external to it, in their quality as data processors and/or data handlers, to whom the Data can be communicated to fulfill the purposes outlined above and in particular to companies belonging to the Group of Ditec (parent, subsidiary and related companies, even indirectly, pursuant to the applicable provisions).

In accordance with Article 7, Italian Legislative Decree no. 196/2003, the Customer may obtain from the data controller or from the data processor the confirmation of the existence or not of their personal Data and that such Data are made available to it in an intelligible form. The Customer can also request to know the origin of Data and the purposes on which the processing is based; to obtain the cancellation, the transformation into anonymous form or the blocking of the data processed infringing laws, as well as the update, the correction or, if there is interest, the integration of data; oppose, for legitimate reasons, the processing itself.

Any requests pursuant to Article 7, Italian Legislative Decree no. 196/2003 shall be addressed to the following address ditecspa@certimprese.it or sent by post to Ditec S.p.A., Via Vittor Pisani n. 20, 20124 Milan (Italy).

18. Applicable law and competent court

18.1 These Terms of Sale are subject to Italian law.

18.2 Any dispute that may arise between the parties in relation to these Terms of Sale related or in any way connected to the Orders submitted pursuant to them shall be settled exclusively by the Court of Milan.

04/2025 - cod. X263B

Dítec

Ditec S.p.A.

Largo U. Boccioni, 1
21040 Origgio (VA) • Italy

T. +39 02 963911
F. +39 02 9650314
M. info@ditecautomations.com

www.ditecautomations.com

Cert. n. 0957/6

When constructing the system, use only Ditec accessories and safety devices.
Ditec automation systems feature EC marking and are designed and built in compliance with the safety requirements of the Machinery Directive (2006/42/EC), the Electromagnetic Compatibility Directive (2014/30/EU) the Low Voltage Directive (2014/35/EU), and other Directives, laws and specific standards covering special products and situations.
The Company reserves the right to make changes in order to enhance the products.
For this reason, the technical details provided are not binding.
Pictures were taken with the consent of those concerned or in public locations.
Further information can be found in the Technical Manuals available on our website:
www.ditecautomations.com