record

Ditec Gate Automation

For Trade Installers

Your direct supply partner
for automatic doors

Ditec Gate Automation

Record Direct now offers an extensive range of Ditec gate automation systems, including options for swing gates, sliding gates, and automatic barriers.

Designed for ease of installation and long-term reliability, these systems provide cost-effective solutions that minimise maintenance expenses while ensuring exceptional durability and performance.

Ideal for both commercial and residential premises, Ditec gate systems blend functionality with sleek, modern aesthetics, seamlessly complementing a variety of architectural styles.

Whether enhancing security, improving accessibility, or adding a touch of sophistication, these solutions are built to meet diverse needs with precision and style.

CROSS

Automation for sliding gates up to 3500 kg

Ditec CROSS is the range of automation for sliding gates up to 3500 kg designed for commercial, industrial and residential installations, guaranteeing maximum safety and reliability. The automation is available in different solutions equipped either with a brand new 230 VAC control panel or an innovative inverter technology based control unit.

Key benefits

- 230 VAC electronics guarantee maximum performance in harsh conditions
- Able to shift heavy gates up to 3500 kg
- Reliable & sturdy to ensure minimal maintenance costs & long life-span
- Suitable for temperatures ranging from -35°C to +55°C
- Integrates perfectly with Ditec control panels for easy use & configuration

Ditec CROSS 18

For sliding gates up to 1800 Kg.
For intensive use.
Available with mechanical or magnetic limit switches. LCA85 control panel (included)

Ditec CROSS 20

For sliding gates up to 2000 Kg.
For very intensive use.
Available with inverter and magnetic limit switches control. LCU43A control panel (included)

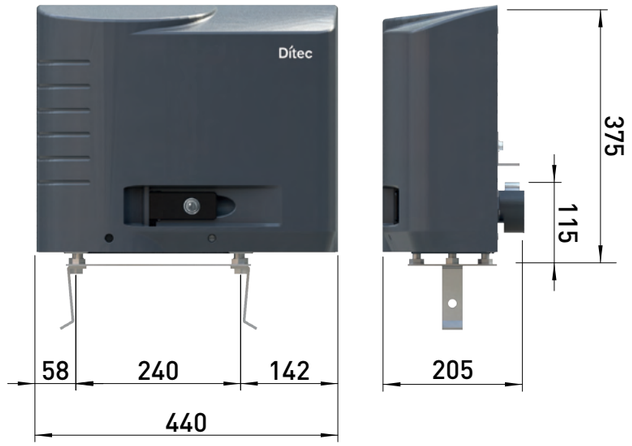
Gear motor
In die-cast aluminium alloy

Vertical levelling screws and horizontal adjustment slots
To adjust the automation system to the surface below and the gate rack

Electric brake/ Electronic braking

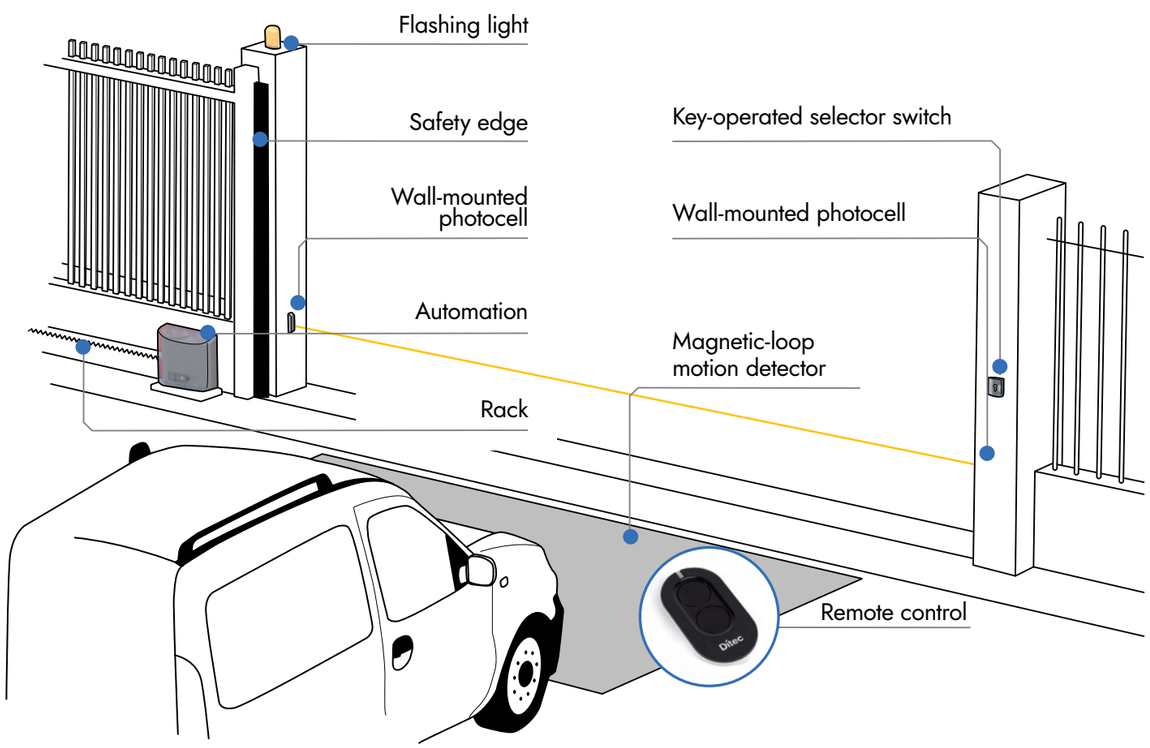
Control panel
Integrated in the operating device

Key-protected handle release system
For manual opening and closing of the gate in case of blackout



Ditec Cross 18 - Ditec Cross 20

Example of installation



Specifications

	CROSS 18EP	CROSS 18VEP	CROSS 20VEI
Electromechanical actuator	for sliding gates up to 1800 kg	for sliding gates up to 1800 kg	for sliding gates up to 2000 kg
Stroke control	lever-operated mechanical stop	magnetic limit switch	magnetic limit switch
Capacity	1800 kg	1800 kg	2000 kg
Service index	intensive up to 350,000 cycles	intensive up to 350,000 cycles	very intensive up to 450,000 cycles
Service index	S2 = 60 min S3 = 55%	S2 = 60 min S3 = 55%	S2=90 min S3=90%
Intermittent operation	19	19	27
Cycles / hour *	33	33	44
Power absorption	230 Vac - 50 Hz (60 Hz version on request)	230 Vac - 50 Hz (60 Hz version on request)	230 Vac - 50/60 Hz
Power input	3 A	3 A	3.5 A
Thrust	1800 N	1800 N	2000 N
Opening speed	0.2 m/s	0.2 m/s	0.1 - 0.3 m/s
Closing speed	0.2 m/s	0.2 m/s	0.1 - 0.3 m/s
Max stroke **	36 m	36 m	60 m
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 X4	IP X4	IP X4
Product dimensions (mm)	440x205x375	440x205x375	440x205x375
Control panel	LCA85	LCA85	LCU43A

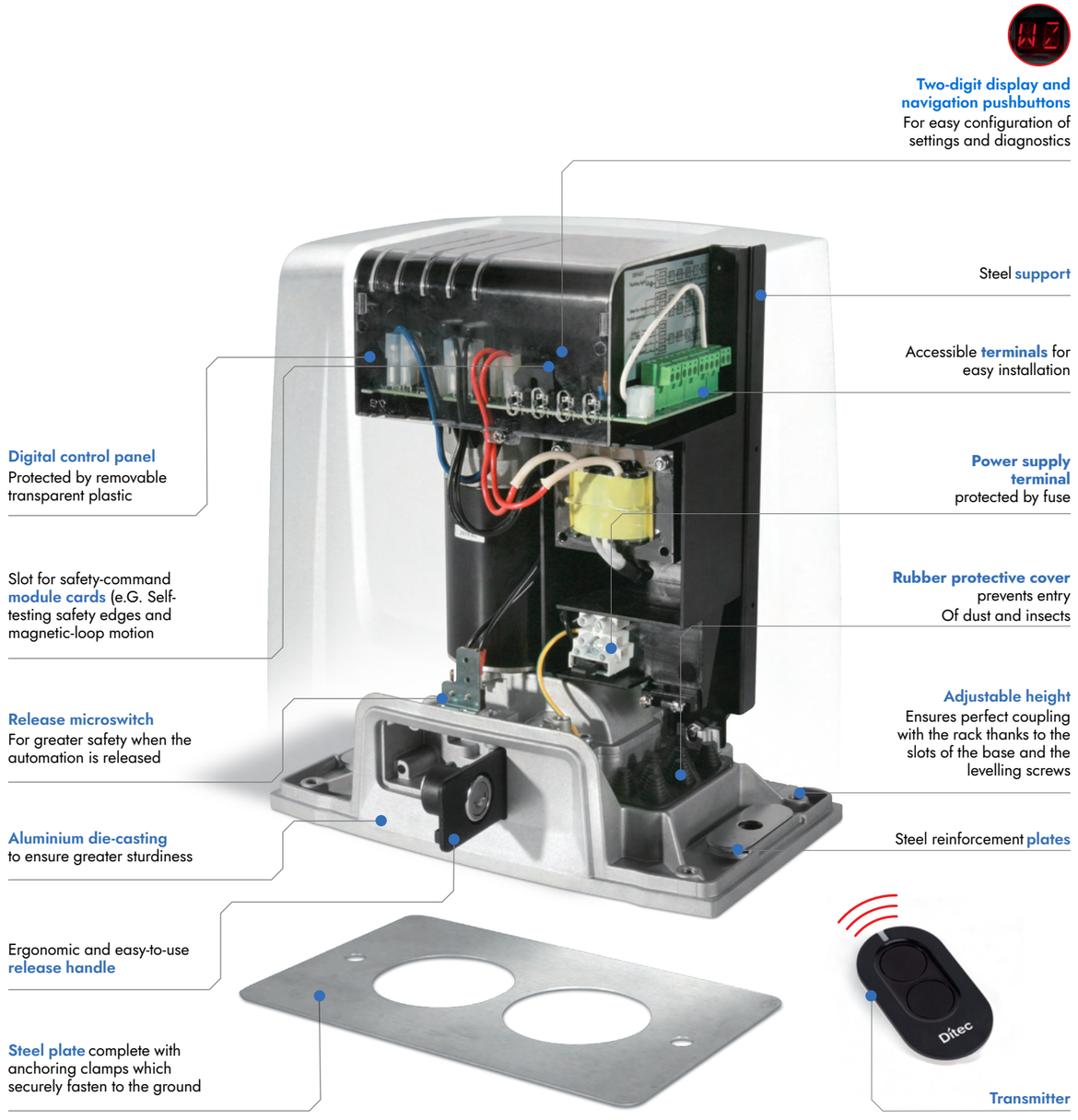
Scan here for more product information

ION

Automation for sliding gates up to 600 kg

Ditec ION is the range of electromechanical actuators for sliding gates designed to guarantee quality, sturdiness and reliability over time, and to facilitate their installation and maintenance. The range is made up of two motor sizes, one for 400 kg and one for 600 kg wing, both featuring on-board multi-function control panels.

- Able to shift gates up to 600 kg
- Quick and straightforward installation with pre-drilled brackets and one-handed fitting.
- Fully compliant with European directives and standards.
- Durable and dependable design ensures minimal maintenance.
- Designed to withstand the toughest weather conditions and environments.
- Seamlessly integrates with Ditec control panels for effortless operation and configuration.



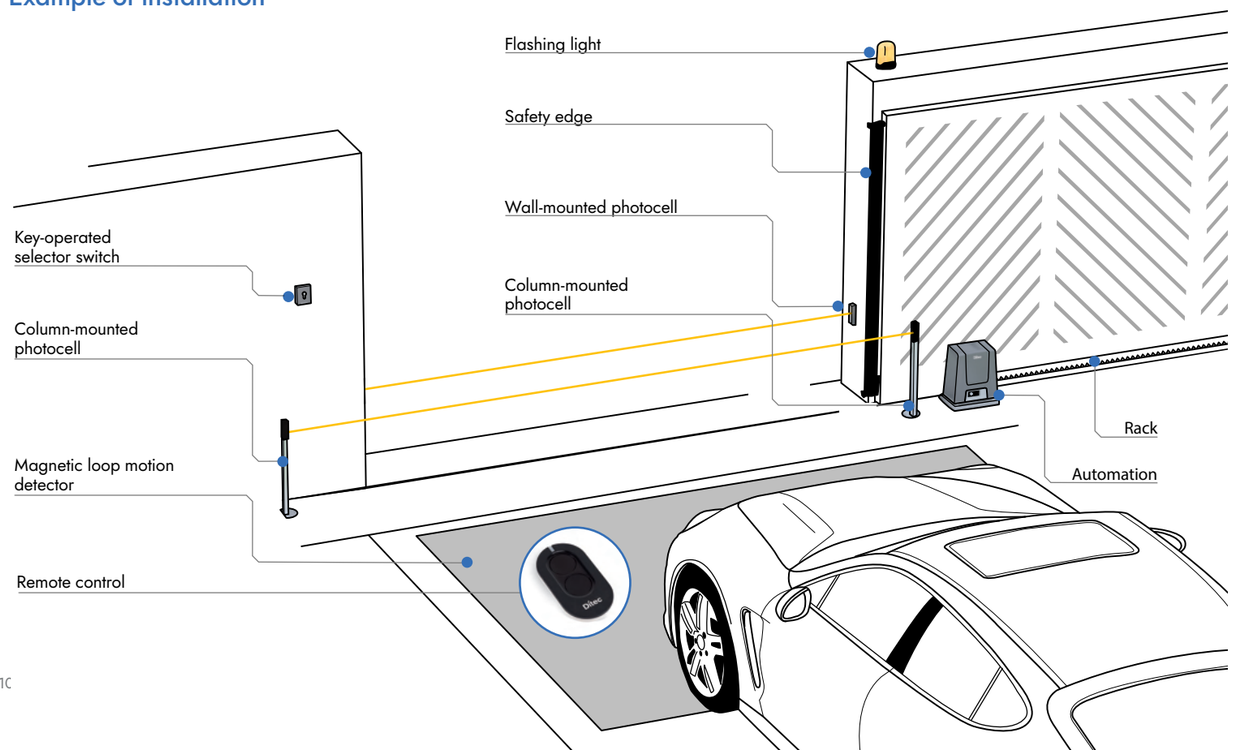
Self procedure - guided menu, predefined configurations

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

The new digital control panel

- Possibility to comply with operating impact values without having to fit active sensitive edges
- Compliant with EU standard 13849 with or without installation of active edges
- Compatible magnetic limit switches for a more accurate adjustment of stopping points during opening or closing
- The temperature sensor fine-tunes the gear motor performance in the event of cold, ice and snow (NIO - No Ice Option function) and protects the motor in the event of overheating
- Energy saving mode which limits stand-by consumption by disconnecting accessories

Example of installation



AES-128 and PROTECTED mode

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

Optimised management of battery recharging

Thanks to the new management of recharging, the battery controller (optional) makes it possible to prolong the battery life and recharge duration in the event of an emergency.
It is also possible to install systems powered exclusively by solar energy, in stand-alone mode.

Convenience first - remote releasing and resetting

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

Simple and secure access via smartphone, locally you can manage remotely

Entrematic Smart Connect lets you control automation via smartphone, tablet, or PC—locally or remotely—using Wi-Fi or Ethernet. Manage access, configure users, and integrate HD real-time video. Secure Virtual Access (SVA) allows Bluetooth-based entry with customisable, time-based credentials.

Technical Specifications

	ION 4 - ION 4J	ION 6 - ION 6J
Max. leaf weight	400 kg	600 kg
Stroke control	virtual encoder	virtual encoder
Maximum opening width	12 m	12 m
Service class	frequent use tested up to 150,000 cycles	frequent use tested up to 150,000 cycles
Power supply	230 V AC - 50/60 Hz 120 V AC - 50/60 Hz (J version)	230 V AC - 50/60 Hz 120 V AC - 50/60 Hz (J version)
Power absorption	24 V DC	24 V DC
Max current absorption	0.45 A 0.9 A (J version)	0.6 A 1.2 A (J version)
Thrust	600 N pickup current	800 N pickup current
Opening and closing speed	0.1 - 0.3 m/s	0.1 - 0.3 m/s
Release system for manual opening	key operated	key operated
Operating temperature	-20°C/+55°C (-35°C/+55°C with NIO enabled)	-20°C/+55°C (-35°C/+55°C with NIO enabled)
Protection rating	IP 44	IP 44
Control panel	LCU48	LCU48

Scan here for more product information

PWR

Automation system for swing gates with wings up to 5 m

Ditec PWR is the range of automations for swing gates in residential, commercial and industrial applications. All the motors are designed and developed to ensure quality and strength, while making installation and maintenance easy. A complete series made up of: a motor for wings up to 2.5 m (Ditec PWR 25), a motor for wings up to 3.5 m (Ditec PWR 35) and four motors for wings up to 5 m (Ditec PWR 50), three at 24 VDC and one at 230 VAC.

Key benefits

- Able to move large gates up to 5 m
- Simple & easy to install with pre-drilled brackets and one-handed installation
- Full compliance with European directives & standards
- Study & reliable for minimal maintenance
- Suitable for even the harshest weather and environments
- Integrates perfectly with Ditec control panels for easy use & configuration

24 V Safe

The 24 VDC virtual-encoder technology enables constant electronic control of the impact forces and immediate obstacle detection, ensuring that the operating device stops or motion is reversed (if configured) when obstacles are detected. If this is not enough, you can add magnetic limit switches (optional on PWR 35, standard on PWR 50). Additionally, in the event of a power outage, the electronic control panel activates the batteries avoiding the interruption of the operation.

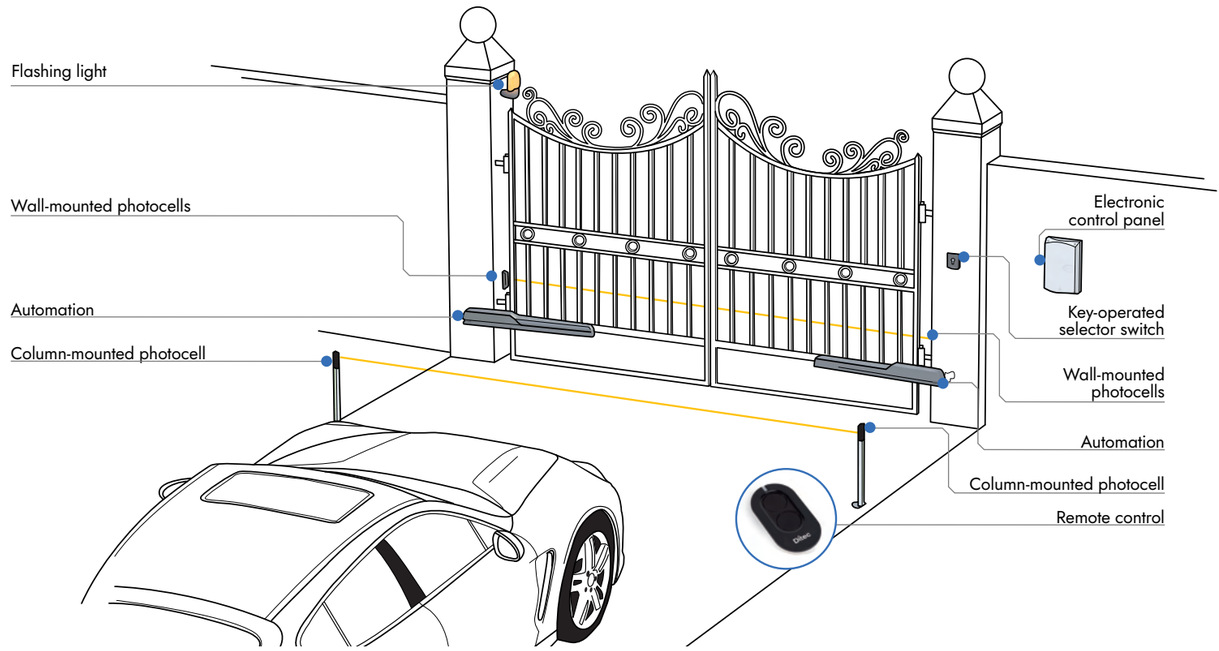
Complete range

Choose Ditec PWR based on your needs!
Irreversible or reversible version. By wing length:
- Version for wings up to 2.5 m (PWR 25), for wings up to 3.5 m (PWR 35) and for wings up to 5 m (PWR 50)
- By number of cycles:
  version for frequent use (PWR 25), intensive use (PWR 35) and very intensive use (PWR 50)

Easy to install

Simple and fast installation procedure, thanks to the special design: installation level for fast installation, pre-drilled fixing plates and mechanical stops for adjustment only, are just some of the features available in the PWR range.

Example of installation

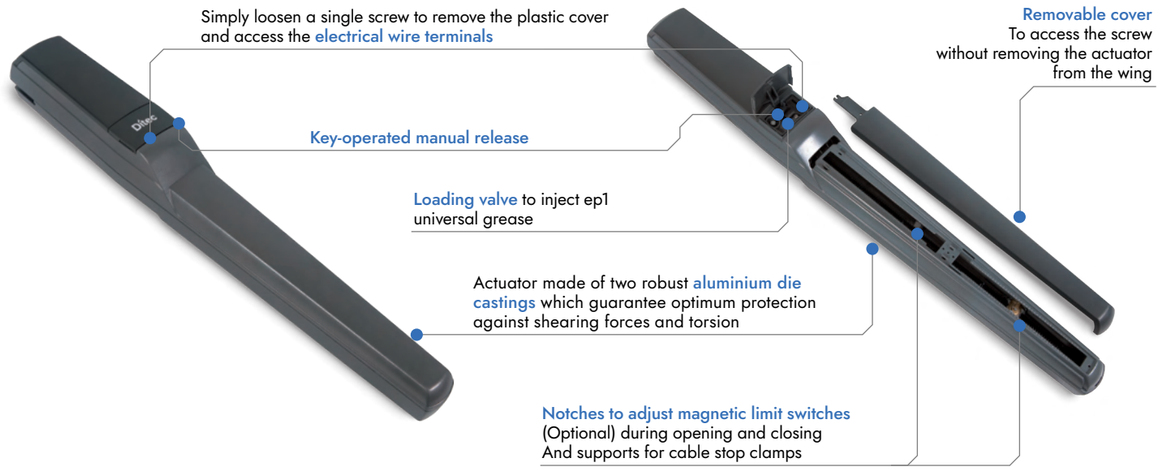


Ditec PWR 25

For wings up to 2.5 m

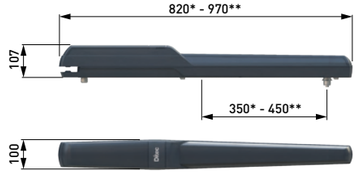
Ditec PWR 35

For wings up to 3.5 m

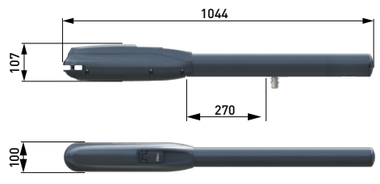


Ditec PWR 50

For wings up to 5 m



*Ditec PWR25H - **Ditec PWR35H



Ditec PWR50H - Ditec PWR50HV
Ditec PWR50HR - Ditec PWR50AC

Technical Specifications

	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

	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 opening (limit switch microswitch optional)
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

Scan here for more product information

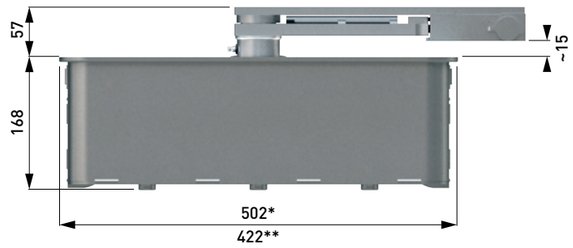
CUBIC

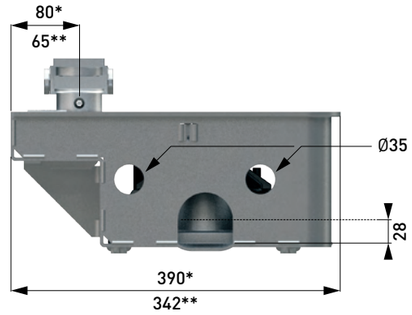
Underground automation system for swing gates with single wings up to 4 m

Ditec CUBIC is the underground automation system for swing gates with wing up to 4 m and weight up to 800 kg. The automation system has no visible protrusions: it is ideal for prestigious gates and doors, buildings of high architectural or historical value and anywhere that needs to maintain the original style, beauty and elegance of the entrance.

Key benefits

- Underground drive for minimal appearance
- Creates the impression of a driverless gate
- Complements & enhances architectural designs
- Capable of operating large gates up to 4 m
- Designed for quick & easy installation with pre-drilled brackets & one-handed assembly
- Fully compliant with European directives & standards
- Robust & dependable, requiring minimal maintenance
- Engineered to withstand harsh weather conditions & challenging environments
- Seamlessly integrates with Ditec control panels for effortless operation & configuration





*Ditec CUBIC6CG **Ditec CUBIC6C - CUBIC6CM - CUBIC6CY

Safety for all users

The 24 VDC virtual encoder models ensure constant adjustment of the impact forces and immediate obstacle detection.

Mechanical limit switch supplied as standard, or optional magnetic limit switch.

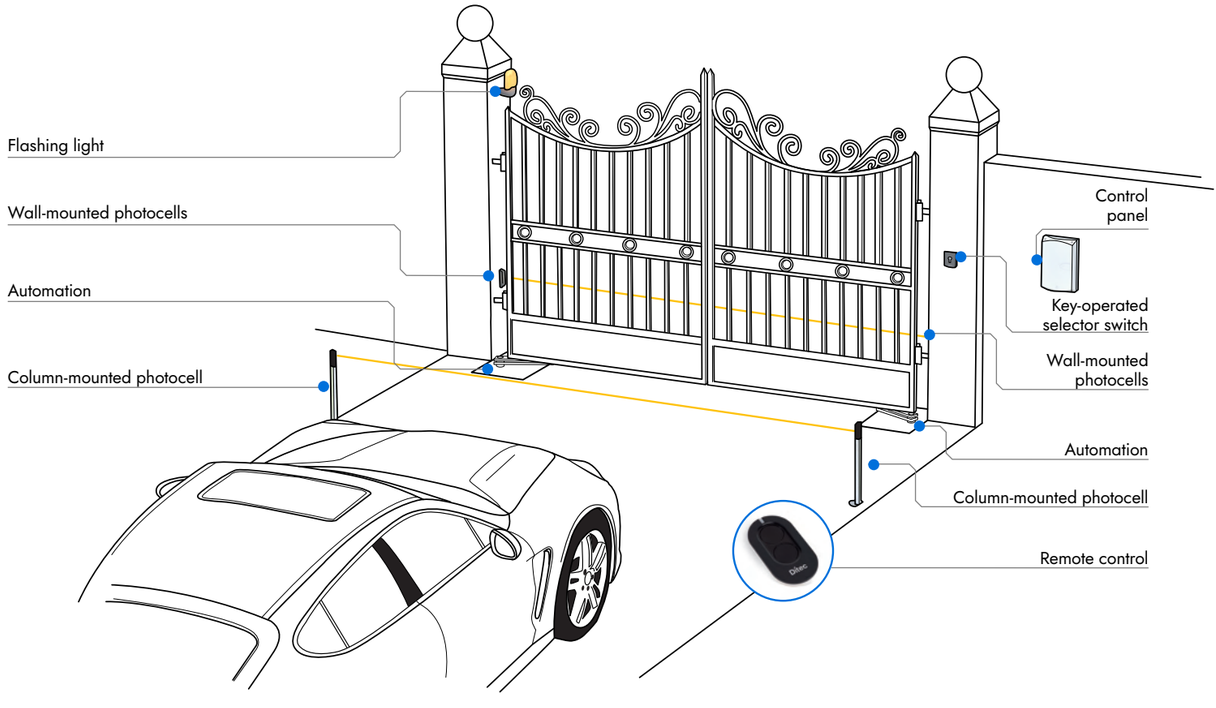
Reliable & sturdy

Foundation casing with protective cataphoresis surface treatment or in stainless steel.

A complete range

One 230 VAC and two 24 VDC versions available, including a fast model with 6-second opening (with standard lever for accesses up to 2 m), with 8-second opening to 90° (with long lever for accesses up to 2.5 m).

Example of installation



CUBIC6

230 VAC
for wing up to 4 m

CUBIC6H

24 VDC
for wing up to 4 m

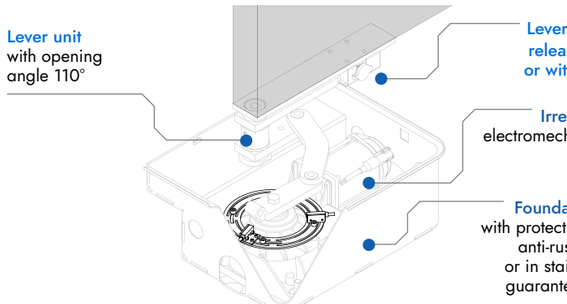
CUBIC6HV

24 VDC, fast version
for wing up to 2.5 m

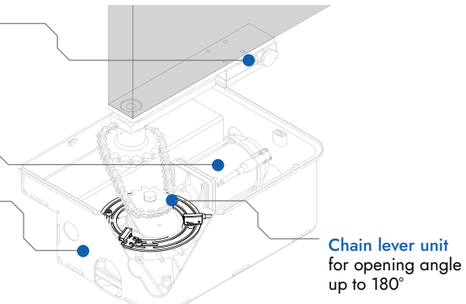
Lever Unit

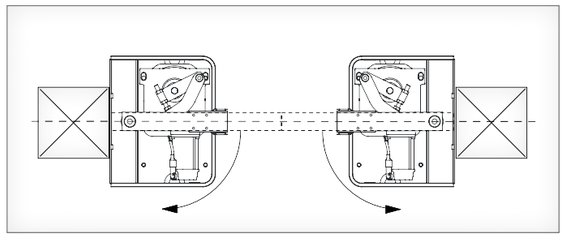
The gear motor and levers are used to manage wings of different sizes and openings up to 110°. Opening up to 180° with the chain lever unit.

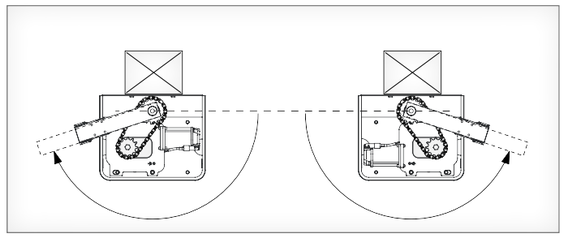
for openings up to 110°



for openings up to 180°







Technical Specifications

	CUBIC 6	CUBIC 6H	CUBIC 6HV
Electromechanical actuator	irreversible for wing up to 4 m	irreversible for wing up to 4 m	irreversible for wing up to 2.5 m
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	3 - frequent	4 - intensive	4 - 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 absorption	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 rating	IP 67	IP 67	IP 67
Control panel	LCA70 LCA80	LCU40H	LCU40H

Main functions of the system

	CUBIC 6	CUBIC 6	CUBIC 6H-6HV
Control panel	LCA70 for 1 or 2 230 Vac motors with built-in radio	LCA80 for 1 or 2 230 Vac motors	LCU40H for 1 or 2 24 Vdc motors with built-in radio
Radio frequency	433,92 MHz as standard 868,35 MHz with ZENPRS or BIXPR2	433,92 MHz with ZENRS or BIXR2 868,35 MHz with ZENPRS or BIXPR2	433,92 MHz as standard 868,35 MHz with ZENPRS or BIXPR2
Interchangeable receiver module 433 MHz/ 868 MHz	■	■	■
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 4A	230 Vac; 2 x 2A; 1 x 4A	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	end stop detection and time calculation	virtual encoder
Limit switch provision		■	■
Energy saving		energy saving on standby (limitation of current absorbed by accessories)	<1 W on standby
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
Open 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 command	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	■	■
Flashing light	230 Vac max 25 W	230 Vac max 25 W	24 Vdc
Electromechanical locking device	12 Vac 15 W	12 Vac 15 W	12 Vdc 15 W
Number of configurable 24 Vdc outputs	1	2	1
gate open warning light (ON/OFF)	■	■	■
- gate-open warning light with proportional flashing	■	■	■
- courtesy light	■	■	yes, shared with electromechanical locking device or flashing light
- 24 Vdc LED flashing light	■	■	■
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	
Acceleration/deceleration ramp (Soft Start / Soft Stop)			adjustable
Thrust on obstructions	adjustable	adjustable	adjustable
Braking/deceleration	adjustable	adjustable	adjustable
End stop approach distance	adjustable	adjustable	adjustable
Operation time	adjustable	adjustable	adjustable
Automatic closing time	adjustable	adjustable	adjustable
Compatibility with hydraulic motors	■	■	
High traffic management	■	■	
Integrated datalogging (counters and recent alarm history)	■ Viewable on display	■ Viewable on 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	■ With Amigo and USBPROG software	■ With Amigo and USBPROG software	■ using micro SD or using Amigo SW and USBPROG
Safety stop (emergency stop)	■	■	■
Safe closing (reverse)	■	■	■
Safety test function (for automatic safety devices)	■	■	■
ODS – Obstacle Detection System	■	■	■
NIO - Antifreeze system	■	■	■
Battery-operated			■ with SBU
Provision for control-panel integrated batteries			■
Stand-alone solar-powered installation			■ with SBU*
Hybrid solar-powered installation			■ with SBU
Safety edge with 8.2kΩ resistance	■ with accessory	■ during opening and closing (terminals already integrated in the control panel)	■ with accessory GOPAV or SOF
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.

Scan here for more product information

QIK

Automatic barriers for passages up to 7.6 m

Ditec QIK is the top performance automatic barrier that fits perfectly into any context. It is the ideal solution for complete secure access control and management, allowing only authorised personnel to enter.

Key benefits

- Fast and reliable ensuring quick opening and closing for smooth traffic flow.
- Built to withstand heavy use and harsh conditions.
- Smooth, silent performance for minimal disruption.
- Features obstacle detection and anti-crush sensors.
- Suitable for various arm lengths and site needs.
- Compatible with access control systems.
- High-quality components for reduced upkeep.

Complete peace of mind

- Base plate with anchoring clamps for secure ground installation
- Durable stainless steel rivets remain intact over time
- Electronic anti-frost system ensures motor efficiency in cold temperatures
- Battery backup keeps the system running during power cuts
- Single-block die-cast gear reducer for easy assembly & longevity
- Dual frequencies (433 MHz & 868 MHz) reduce interference
- Right or left opening by adjusting the spring position
- Compression-based single spring balancing system

Adjusting settings made simple

- Trimmers for an easy speed adjustment during opening,
  closing and for automatic closing time
- Force and braking space adjustment
- Memory module for storing remote controls: if the control panel is replaced, the memory module can be mounted in a new control panel
- Led diagnostics on the control panel

Versatile to meet all requirement

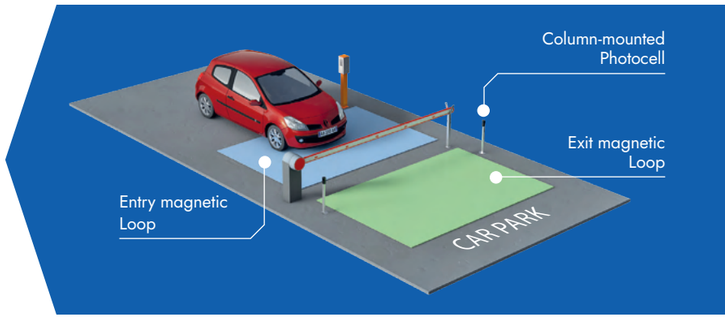
Ditec QIK also includes a series of accessories:

- Jointed bar for use in areas with limited vertical clearance, such as underground car parks
- LED lighting kit to indicate status and improve visibility of obstacles
- Electro-mechanical lock for enhanced security and protection from unauthorised openings
- Key-protected release lever for quick access on the inspection side
- Designed for fitting photocells inside the cabinet

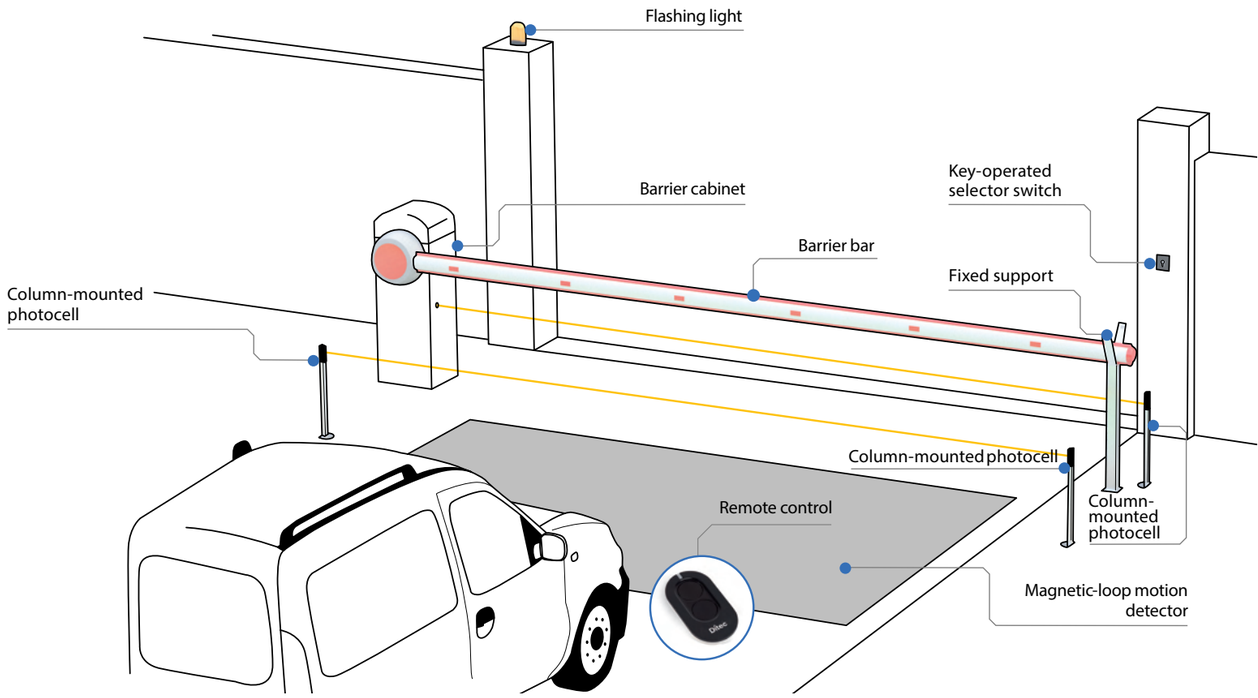
Manage car parks that are bidirectional

Ideal solution for car parks with bidirectional access: access to the car park following authorisation or payment (e.g. coin box) while exit is free.

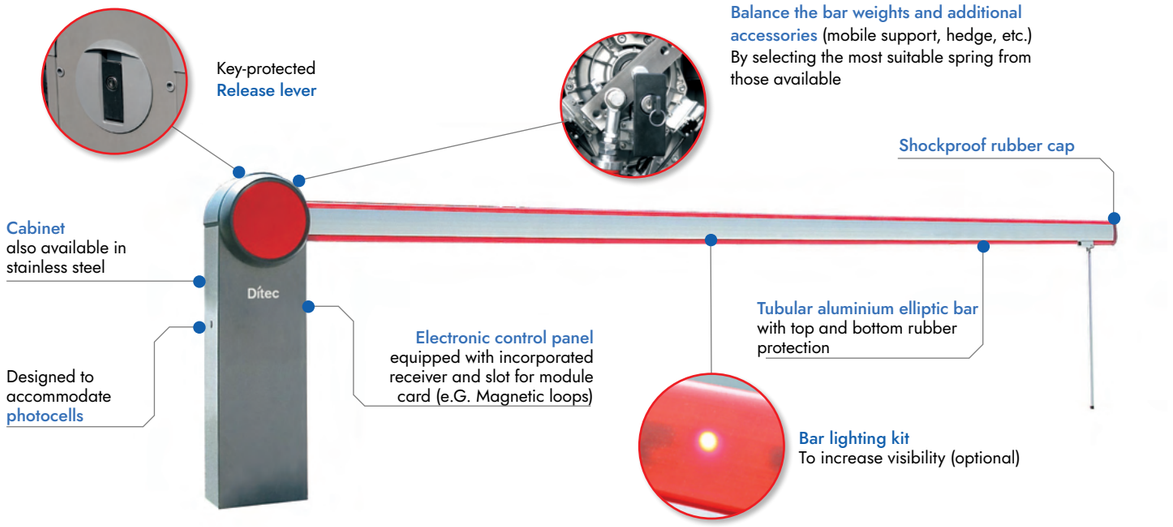
With the M1QKC7 accessory, the barrier recognises the transit
direction of the vehicle: it disables the auxiliary control (exit magnetic loop) after releasing the safety device (e.g.



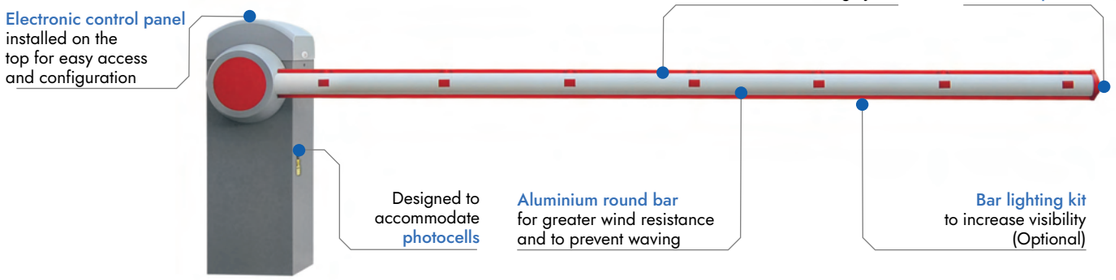
Example of installation



Ditec QIK 7EH - Aluminium elliptic arm for openings ranging from 1.3 m to 5.8 m



Ditec QIK 80EH - Aluminium round arm for openings ranging up to 7.6 m



Technical Specifications

	QIK 7EH	QIK 80EH
Barriers	up to 5.8 m	up to 7.6 m
Stroke control	encoder	encoder + limit switch
Arm length up to	6 m	7.95 m
Arm	elliptic	round
Duty class	very heavy	heavy duty
Intermittent operation	S2 = 60 mins - S3 = 60%	S2 = 50 mins - S3 = 50%
Power supply	230 Vac - 50/60 Hz	230 Vac - 50/60 Hz
Power input	1 A	1.2 A
Torque	70 Nm	200 Nm
Opening and closing time	2 ÷ 6 s/90°	6 ÷ 12 s/90°
Release system for manual opening	key-operated	key-operated
Operating temperature	-20°C ÷ +55°C (-35°C ÷ +55°C with NIO activated, -10°C ÷ +50°C with batteries)	
Protection rating	IP 24D	IP 24D

Main functions of the system

	QIK 7EH	QIK 80EH
Control panel	ref. EL31R with built-in radio	rif. EL34 con decodificatore radio incorporato *
Mains power supply	230 Vac - 50/60 Hz	230 Vac - 50/60 Hz
Batteries	■ (optional)	■ (optional)
Accessories power supply	24 Vdc / 0.3 A	24 Vdc / 0.5 A
Electro-mechanical lock	24 Vdc / 1 A	24 Vdc / 1 A
Flashing light	24 Vdc	24 Vdc
Gate-open warning light	analogue	analogue
Courtesy light	■	■
Designed to accommodate limit switch	■	■
Encoder to control speed and deceleration	■	■
Force setting	automatic	automatic
ODS - Obstacle Detection System		■
Speed setting	■	■
Braking/slowing down	■	■
Time setting		
Open control	■ (with dip-switch)	■
Partial opening control	■	
Close control	■	■
Timer-controlled automatic closing	■	■
Inching control	■	■ (with dip-switch)
Hold-to-run control	■	■
Emergency stop	■	■
Emergency reverse	■	■
Safety-test function	■	
Soft Start	■	
Immediate closing after transit	■	■
NIO - Antifreeze system	■	■

Dual configuration mode: basic & advanced

Quick setting using the trimmer, or precise setting of all parameters by connecting the MD2 display module to the control unit.

- » Adjustment of thrust on obstacles
- » Speed setting during opening, closing and for automatic closing time
- » Acceleration time adjustment
- » Slowdown setting during opening and closing
- » Complete management of remote control memory module: storage or deletion of a remote control, total deletion, setting functions for each channel
- » Pre-flashing time during opening and closing
- » Renewal of automatic closing time after the safety device is released

Scan here for more product information

And if this is not enough...

- » Low battery warning
- » Removable storage allows operating settings to be saved and copied to another operating device
- » Terminal for connecting two barriers in a master/slave configuration so the dual opening or interlocking openings control is synchronised
- » Nio anti-frost electronic system activation
- » With parameter configuration in advanced mode, the selections and settings can be password-protected to prevent unauthorised personnel from changing them

LCA85

Control panel for a perfect motion control

The advanced digital control panel LCA85 ensures precise management of the gate's movement throughout all phases. With the innovative Ditec Virtual Encoder system for constant position control, it provides accurate and safe position management.

Key benefits

- Quick setup for logic, direction, auto-closing, and up to 200 remote controls.
- Adjust 100+ parameters via a simple menu.
- Low power consumption in standby.
- Counters and alarm log included.
- Enhanced torque, acceleration, and obstacle detection.
- Adjustable force, increased in cold weather, and safety edge testing.
- Separate 24V AC/DC and configurable accessory outputs.
- Auto-adjusts re-closing for peak usage, reducing wear.

Technical Specifications

	LCA85
Radio frequency	433.92 MHz with ZENRS (already included in the CROSS range) or BIXR2 868,35 MHz with ZENPRS or with BIXPR2
Interchangeable receiver module 433.92 MHz –> 868.35 MHz	■
Mains power supply	230 Vac - 50/60 Hz
Motor power supply	3 A
Accessory power supply 24 Vdc and 24 Vac	0.5 A max
Stroke management	virtual encoder and limit switches
Limit switch management	■
Energy saving (GREEN mode)	reduced consumption in standby*
Operating temperature	-20°C ÷ +55°C in standard conditions (-35°C ÷ +55°C with NIO system active)
Protection rating of electrical panel	IP55
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 open and closed positions
Flashing light	230 Vac max 25 W

* Limitation of current absorbed by accessories on standby

	LCA85
Number of configurable 24 Vdc outputs	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	■
Configuration of programmable functions	display and navigation buttons
Force adjustment	■ (electronics)
Thrust on obstructions	adjustable
Braking/deceleration	■
Approach space before the limit switches	adjustable
Automatic closing time	adjustable
High traffic management	■
Integrated datalogging (counters and recent alarm log)	viewable on display
FW update	using Amigo SW or USBPROG
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	■
Magnetic loop detector	■ with accessory LAB9

LCU43

Control panel for powerful & fast automation

CROSS20VEI is equipped with 230 VAC 50/60 Hz inverter technology control panel in IP55 box

- The use of the inverter guarantees more power and torque to the motor in all the stroke phases
- The hardware of the gate is preserved thanks to the possibility of managing acceleration and deceleration ramps, opening and closing speed, easily configurable from the display

Key benefits

- Constant gate position tracking
- High speed up to 30 cm/s for gates ≤ 2000 kg, 25 cm/s for gates ≤ 3500 kg, compliant with current standards.
- Over-temperature protection.
- Limits accessory power consumption in standby mode.
- Two inputs for open/closed positions with self-testing resistive active safety edges (8.2 kΩ).
- Power boost automatically provides extra thrust when required.
- Simple terminal for synchronising two Ditec CROSS 20 operators.
- Integrated diagnostics: Counters and recent alarms displayed on the control panel.
- Advanced diagnostics for precise troubleshooting.

Technical Specifications

	LCU43A - LCU43B
Radio frequency	433.92 MHz in standard configuration 868.35 MHz with ZENPRS or with BIXPR2
Interchangeable receiver module 433.92 MHz –> 868.35 MHz	■
Mains power supply	230 Vac - 50/60 Hz
Motor power supply	3.5 A (LCU43A) - 4 A (LCU43B)
Accessory power supply 24 Vdc and 24 Vac	max 0.5 A
Stroke management	virtual encoder and limit switches
Energy saving (GREEN mode)	reduced consumption in standby*
Operating temperature	-20°C ÷ +55°C in standard conditions (-35°C ÷ +55°C with NIO system active)
Protection rating of electrical panel	IP55
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 open and closed positions
Flashing light	24 Vcc

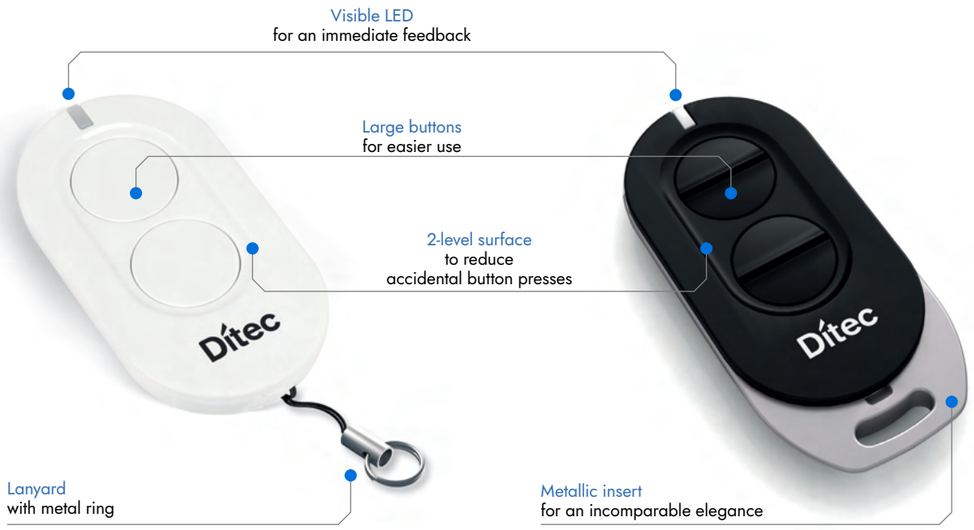
* Limitation of current absorbed by accessories on standby

	LCU43A - LCU43B
Number of configurable 24 Vdc outputs	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	■
Configuration of programmable functions	display and navigation buttons
Force adjustment	■ (electronics)
Thrust on obstructions	adjustable
Speed	adjustable
Braking/deceleration	■
Approach space before the limit switches	adjustable
Automatic closing time	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 MicroSD or using Amigo SW and USBPROG
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	■
Magnetic loop detector	■ with accessory LAB9

ZEN

Advanced transmitter & radio system

Ditec ZEN is the range of 2 channel and 4 channel remote controls with an exclusive design: large push buttons and a rounded shape guarantee an improved user experience.
They are available in different colours and in two frequencies 433.92 MHz and 868.35 MHz.

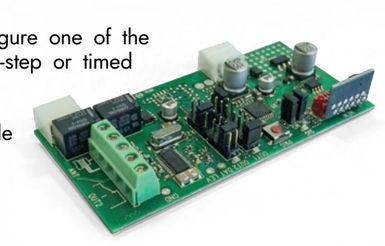


Ditec ZENRS/ZENPRS - plug in receiver modules for control panel with build-in coding

» Ditec new generation control panel are complete with interchangeable receiver module 433.92 MHz (ref. ZENRS)
» Switch to 868.35 MHz frequency by simply changing the receiver module (ref. ZENPRS)

Ditec BIXR2/BIXPR2/BIXLR42 - two-channel/ four-channel plug-in receivers

» Two-channel receivers 12-24 VDC complete with decoding and memory module for remote controls
» Plug-in installation on control panels without built-in decoding or in card holder base
» 433.92 MHz and 868.35 MHz versions
» Compatible with removable memory modules: BIXMR2 (capacity 200 remote controls - included) and BIXMR (capacity 1000 remote controls - optional)
» Possibility to configure one of the outputs as step-by-step or timed contact, as an alternative to the normal pulse mode

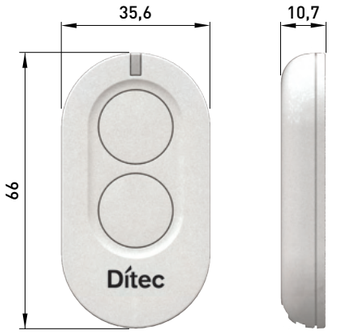


Protect your business

Ditec AES-128 Protected Mode is a special AES-128 encrypted mode.
» Thanks to the ZENPAD programming unit, you can protect your system with a personalised installation code
» The algorithm used to encrypt rolling code transmission, using AES 128-bit, adds your access keys and speaks a single language - yours!

Maximum security against undesired access

» The ZEN series remote controls are set up to transmit in AES-128 (encrypted mode)
» By configuring the control panels to receive in encrypted mode, an encrypted and super-secure radio transmission is established between the remote control and the receiver, making cloning or the use of universal remote controls impossible
» Ditec is one of the first to use this technology, derived from the banking sector
» The standard Ditec ZEN rolling code remote control rolling can be transformed into AES-128
» (Encrypted mode) with a quick manual operation or easily with Ditec ZENPAD and ZEN manager



Full range - the right transmitter for every need

- 2 channel and 4 channel radio transmitters
- Different colours: white, black, blue, green, red and yellow
- 433.92 MHz and 868.35 MHz versions
- Rolling code with over 4 billion combinations
- Remote controls designed to transmit in multiple protocols:
  Ditec rolling code, fixed code, dip switch and the new AES 128-bit protocols (encrypted mode and protected mode)
- Guaranteed compatibility with existing Ditec systems
- Remote controls configurable in standard mode either by means of acquisition from the receiver or by cloning master transmitters
- Additional features available thanks to Ditec ZENPAD programming unit and ZEN MANAGER software

Special version of ZEN 2 transmitter

- 433 MHz transmitter wired and complete with support for wall installation
- Thanks to its small size, it can be installed in the flush-mounted box of wall controls
- The two channels can be activated by two external contacts (potential free)
- Prepared to transmit in several protocols: rolling code, fixed code, dip switch, and the new AES 128-bit protocols (encrypted mode and protected mode)
- Avoids the need for a wired connection, allowing radio commands to be sent to the receiver integrated in the automations
- If used in combination with smart connect, it is possible to avoid the wire connection to the control panel terminals

Ditec ZENPAD & ZEN MANAGER

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.

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

Transmitter menu

Used to manage all the functions associated with transmitters and radio control devices:

- Display the factory model and code
- Read the current configuration
- Flash a 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)
- Possibility to organise 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

Ditez ZENXR2 - Universal two-channel pre-wired receiver

Ditec ZENXR2 is a universal 433.92 MHz dual channel receiver conveniently pre-wired to speed up installation time.

It can be used on all the motors on the market, even those not Ditec branded; customers can benefit from all the advantages of the Ditec ZEN range of remote controls in terms of safety and protection.

- Two-channel 12-24 VCA/VDC receiver
- Inserted in a sturdy plastic container that can be fixed to the wall or placed inside other devices
- Equipped with removable memory module BIXMR2 for the storage of up to 200 transmitters
- Equipped with 2 relay contacts (1A/30v n.O.) And a rigid wire antenna (length 173 mm) that guarantees high sensitivity; alternatively, it can be connected to an external antenna (GOL148REA)
- Compatible with dip switch protocols fixed code, rolling code aes 128-bit (encrypted mode and protected mode)

Product range

	Description	Number of channels	Frequency	Capacity	Default protocol	Compatible protocols
ZEN2	Colour: black, black push buttons	2 Channels	433.92 MHz	50 m = 150 m	Rolling code	AES-128 Encrypted mode*, AES-128 Protected mode, Fixed Code, Dip Switch
ZEN4	Colour: black, black push buttons	4 Channels	433.92 MHz	50 m = 150 m	Rolling code	AES-128 Encrypted mode*, AES-128 Protected mode, Fixed Code, Dip Switch
ZEN2MT	Colour: black, with chrome insert	2 Channels	433.92 MHz	50 m = 150 m	Rolling code	AES-128 Encrypted mode*, AES-128 Protected mode, Fixed Code, Dip Switch
ZEN4MT	Colour: black, with chrome insert	4 Channels	433.92 MHz	50 m = 150 m	Rolling code	AES-128 Encrypted mode*, AES-128 Protected mode, Fixed Code, Dip Switch

* you can change the mode by a simple manual procedure

	Number of combinations
Compatible with MM53200	4,096
Dip Switch	1,024
Fixed code	4,294,967,896
Rolling Code	4,294,967,896
AES 128-bit Encryption	340,282,366,920,938,000,000,000,000,000,000,000,000
PROTECTED Mode	340,282,366,920,938,000,000,000,000,000,000,000,000

	Dip switch	Fixed code	Rolling code	AES 128-BIT ENCRYPTION	Protected mode
ZENXR2	■	■	■	■	■

Accessories

Control accessories

Radio keypad 4-CH to control the automation using 4 customisable numeric codes. Two power supply options: using a 9 VDC battery or through a 24 VDC connection to the control panel.

» The signal is transmitted to the control panel using one of the Ditec radio protocols: rolling code, AES 128-bit Encrypted, PROTECTED Mode, fixed code
» Possibility of configuration using ZEN PAD and ZEN MANAGER software
» 433.92 MHz (AXK4) and 868.35 MHz (AXK4P) versions
» Back-lit keypad and integrated LED for visual status indication

RFID Transponder proximity reader (AXR7) for encrypted ISO cards or RFID tag. The device is able to read the card or the TAG when this is placed near-by or touches the device surface. Compatible with Ditec microprocessor card decoder (LAN7S). Integrated LED light for visual status indication.

Key-operated selector switch wall mounted (AXK5M) and semi-recessed (AXK5I) with European cylinder.

» Burglar-proof thanks to its metal body
» Microswitches electrical contacts protected by a metal enclosure
» Semi-recessed version compatible with standard ø 57 mm boxes

Selector switch without cylinder wall mounted (AXK5NM) and semi-recessed (AXK5NI).

» Burglar-proof with metal body
» Useful if you already have the cylinder with the necessary mapping

Safety accessories

Ditec AXP2, LIN2 and LAB4 are safety devices using modulated infra-red ray, compliant with the most stringent technical standards as required by applicable regulations.

» LIN2 photocell features a 3-positions card. Thanks to its slim dimensions (38 mm width), it is particularly suitable for small columns mountings and installations within a passageway
» AXP2 photocell comes with reduced thickness (25 mm) and same design of Ditec AX series control devices
» LAB4 photocell is the ideal solution for industrial applications
» Version with a battery-operated transmitter (LIN2B and LAB4S)

LIN2 -LIN2B

Photocells

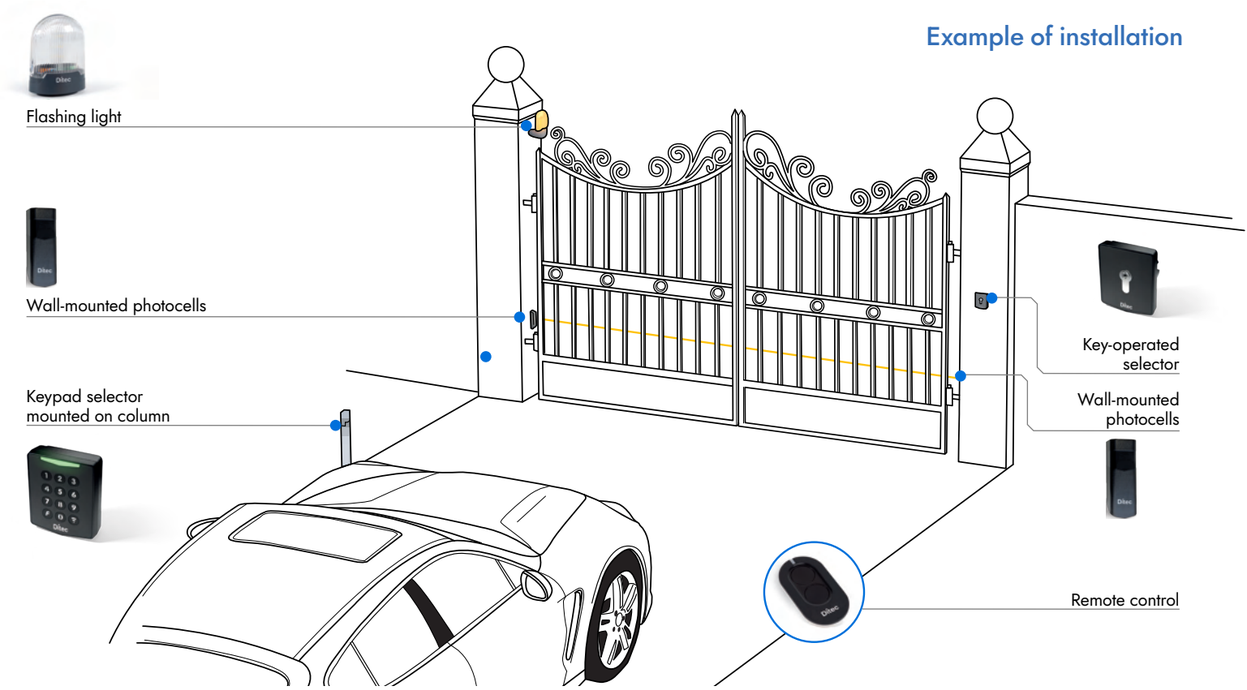
CODE	DESCRIPTION	CAPACITY	POWER SUPPLY	POWER INPUT	RELAY CAPACITY	OPERATING TEMPERATURE	PROTECTION RATING
LIN2	Outside photocell - card that can be oriented in three positions	Configurable 10 m – 30 m max	24 Vdc - 24 Vac	Max 50 mA	24 Vdc / 1 A max	-20°C ÷ +55°C	IP44
LIN2B	Outside photocell - card that can be oriented in three positions. Power supply: battery (included)	Configurable 10 m – 20 m max	24 Vdc - 24 Vac	Max 35 mA	24 Vdc / 1 A max	-20°C ÷ +55°C	IP44

AXK4 - AXK4P

Digital keypad

CODE	DESCRIPTION	CAPACITY	POWER SUPPLY	POWER INPUT	RADIO PROTOCOLS	OPERATING TEMPERATURE	PROTECTION RATING
AXK4	Keypad selector with 433.92 MHz radio transmission	50 - 150 m	9 Vdc (6LR61 battery) or 12-24 Vdc	Operation: 40 mA Max. Stand-by: 5 µA	Rolling Code*, AES-128-bit Encrypted, PROTECTED Mode, Fixed Code	-20°C ÷ +55°C	IP55
* default							

Example of installation



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