



## **Ditec automation for gates and automatic barriers**

EN

# ALL INCL USIVE

A complete range for all your residential and light commercial applications.

**Ditec NeoS** operates with gates up to 1.000 kg of weight and is designed to work even in case of intense usage and demanding environmental conditions. The control panel is integrated in the gear motor and provides a wide choice of advanced functions. Ditec NeoS is easy and quick to install and maintain.



# Ditec NeoS

## The pleasant performance

### Discover the features which make Ditec NeoS truly unique

#### Versatile

The full range of gate operators and accessories satisfies installation requirements in various residential and commercial environments.

#### 2 levels of performance

NeoS for standard applications, in complete safety.

NeoS+ for advanced functions and exclusive technical features: External LEDs for communicating operator status, USB connection for accurate diagnostics, set-up for solar-power connection, and the possibility of controlling courtesy or external lighting.

#### Performance and technical content

- Opening and closing speed up to 25 cm/sec
- Suitable for gates weighting up to 1000 kg
- Low consumption and energy saving mode
- Battery kit available in case of fault of tension
- 433 MHz and 868 MHz frequencies available
- Possibility to control courtesy or external ambient lights (NeoS+ only)

#### Safety

##### Safeguard against accidents

For maximum safety during closing operations, the gate operator can be equipped with photocells and sensitive edges: in case of contact, the automation reverses the movement preventing damage to persons and things.

Furthermore, the moving parts are enclosed in a robust case and a 24 V DC gear motor is used to minimise electrical risks (e.g. electrocution) in case of accidental opening of the operator.

##### Protection against the elements

Thanks to the choice of materials, positioning of the internal components and wiring layout, humidity, bad weather and insects are no longer a problem.

With the NIO function, the temperature sensor adapts gear motor performance in case of cold, ice or snow down to  $-35^{\circ}\text{C}$ !

Ditec NeoS is compatible with a full range of protection devices such as photocells, sensors, controls and safety edges.

#### Pleasant

##### Innovative and fresh look

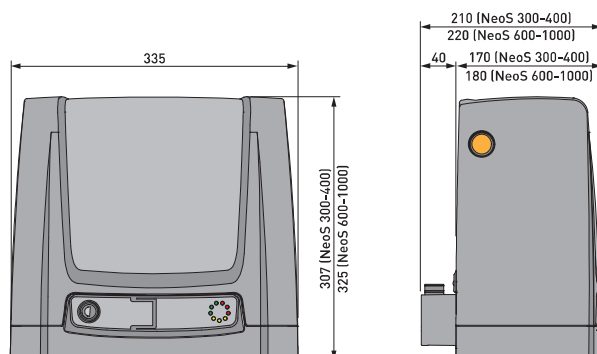
The modern design and clean aesthetics perfectly match all house styles. The integrated control panel and the possibility to mount photocells inside the cover grant a neat installation.

##### Control and security in your hands

The installation of Ditec NeoS can be greatly customised thanks to a wide selection of accessories. While comfortably seated in your car, simply press a button on your remote control and Ditec NeoS will spring into action, powerful and silent. The integrated Ditec solutions further allows you to operate your Ditec NeoS, turn on lights, open your garage door and control automatic road barriers... with just one remote control!



#### Dimensions



#### Product range

NES300EH	NeoS up to 300 kg
NES400EH	NeoS up to 400 kg
NES600EH	NeoS up to 600 kg
NES300EHP	NeoS+ up to 300 kg
NES400EHP	NeoS+ up to 400 kg
NES600EHP	NeoS+ up to 600 kg
NES1000EHP	NeoS+ up to 1000 kg



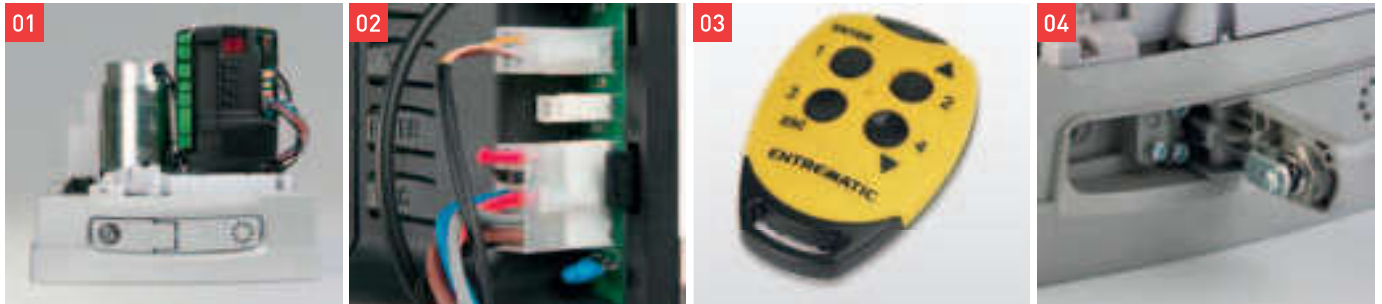
# Comfort for the installer, clarity for the th



# e user

## Comfort for installation

- Optimised layout of the internal components **01**
- Installation cables conveniently separated from "in-factory" cabling **02**
- Special transmitter for easier configuration of the operator **03**
- Practical and convenient release handle, without sharp edges **04**
- Enclosed steel plate for a convenient and rapid installation (stronger plate available as option) **05**

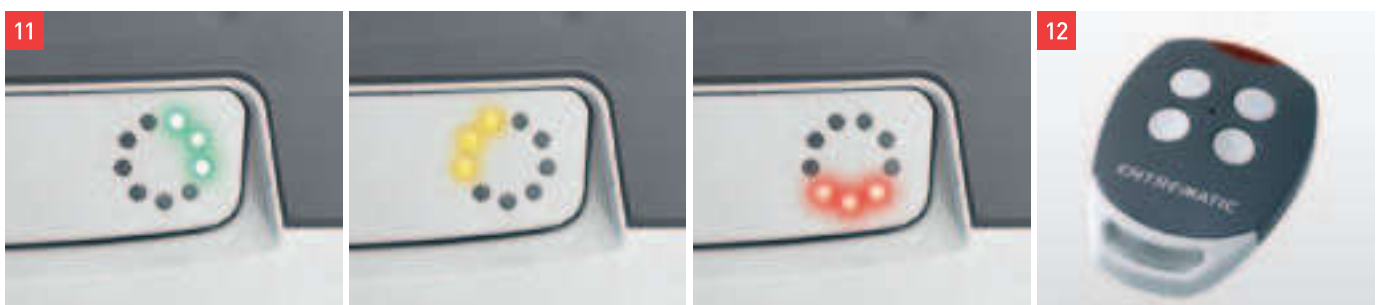


- Internal photocells' slots for greater safety and practicality **06**
- 2 digit display for easy setting and quick check of operator status **07**
- Adjustable height to ensure a perfect coupling with rack **08**
- PC diagnostic via USB (NeoS+ only) **09** to allow real-time monitoring of operator and download of data tracking for diagnostic
- Thanks to the choice of materials, positioning of the internal components and wiring layout, humidity, bad weather and insects are no longer a problem **10**



## Clarity for the user

- The LED displays inform the user of the operator's status (NeoS+ only) **11** :
  - green indicates regular functioning
  - yellow stands for battery mode and check-up time
  - red signals presence of faults or release cover open
- The release handle is easily accessible in the front of the cover and comes with a closing key for increased safety
- Ditec NeoS is controlled via Gol 4 transmitters and pre-programmed with all functions: step-by-step opening, partial opening, and courtesy light control (NeoS+ only) and stop command **12**



# PERFORMING

A large, dark grey industrial sliding gate is shown in a partially open position. A black Ditec Cross actuator is mounted on the ground at the bottom of the gate. A yellow emergency stop button is visible on the top left of the gate. The background shows a concrete wall, a blue flag, and green trees under a clear sky.

Sliding gates demand flexible automation systems that are able to manage various dimensions, different intensities of transit and changeable environmental conditions, whilst always ensuring maximum operational safety, functioning and reliability. The **Ditec Cross** line meets all the different commercial and industrial needs. These modern and fully equipped actuators are specifically designed to satisfy all most advanced technical and installation requirements.



# Ditec Cross

A full range of products, for any type of service

## Ditec Cross 18-19

**For sliding gates weighing up to 1800 kg**

They are ideal for heavy service (commercial and industrial entrances)

- Gear motors with three different limit switch working alternatives
- Easy key lock release through removable cover opening
- Ditec Cross 18VE with built-in radio
- Rugged and powerful motor
- Wide range of accessories to meet various operational requirements.

Ditec Cross 18-19



## Ditec Cross 30

**Rugged, powerful, suitable for gates up to 3000 kg**

They are ideal for intensive service (community and industrial entrances)

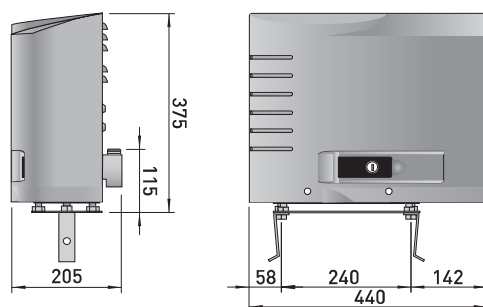
- Trouble-free installation
- Magnetic limit switch
- System housed in a robust steel cabinet
- Functional and large front removable cover for easy access to components
- Built-in electronic control panel.

Ditec Cross 30

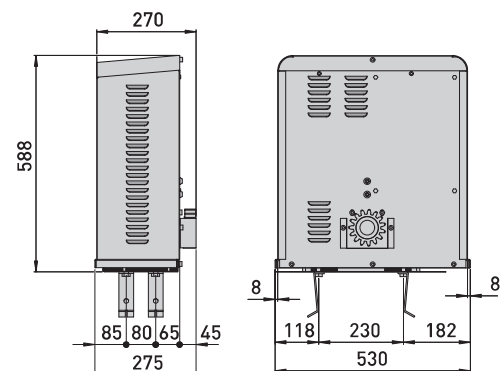


## Dimensions

Cross 18 - Cross 19



Cross 30

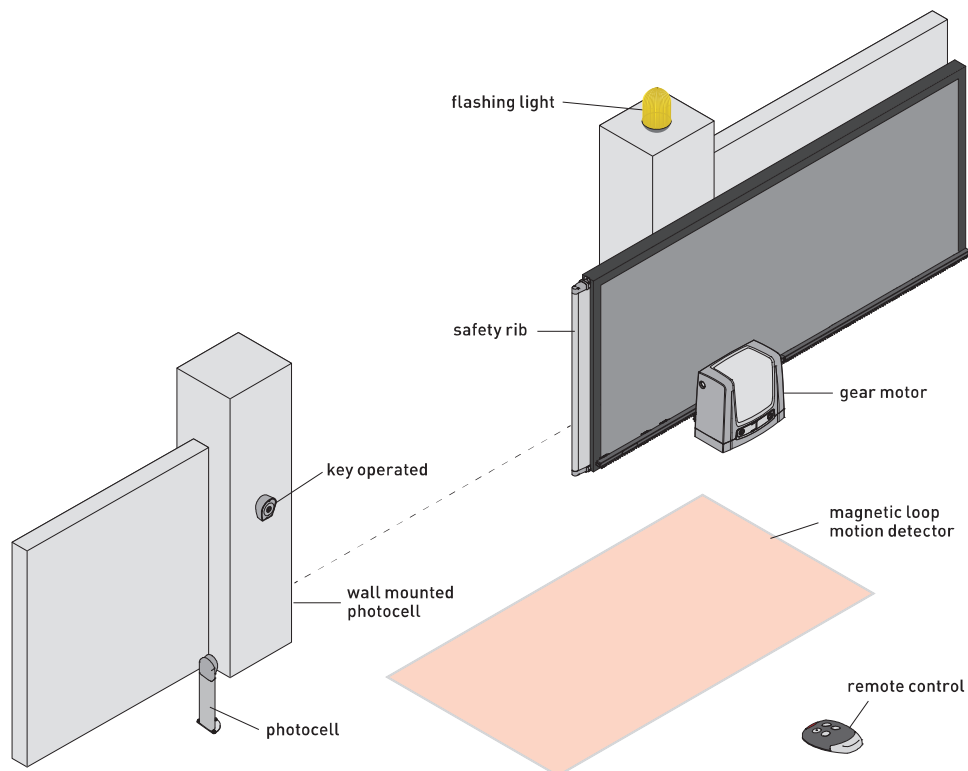


## Product range

CROSS18	up to 1800 kg, rotary limit switch
CROSS18E	up to 1800 kg, lever-operated limit switch, built-in control panel and radio receiver
CROSS18VE	up to 1800 kg, magnetic limit switch, built-in control panel
CROSS19	up to 1800 kg, magnetic limit switch
CROSS30E	up to 3000 kg, magnetic limit switch, built-in control panel

# Example of installation and technical characteristics

Ditec NeoS






## Technical specifications

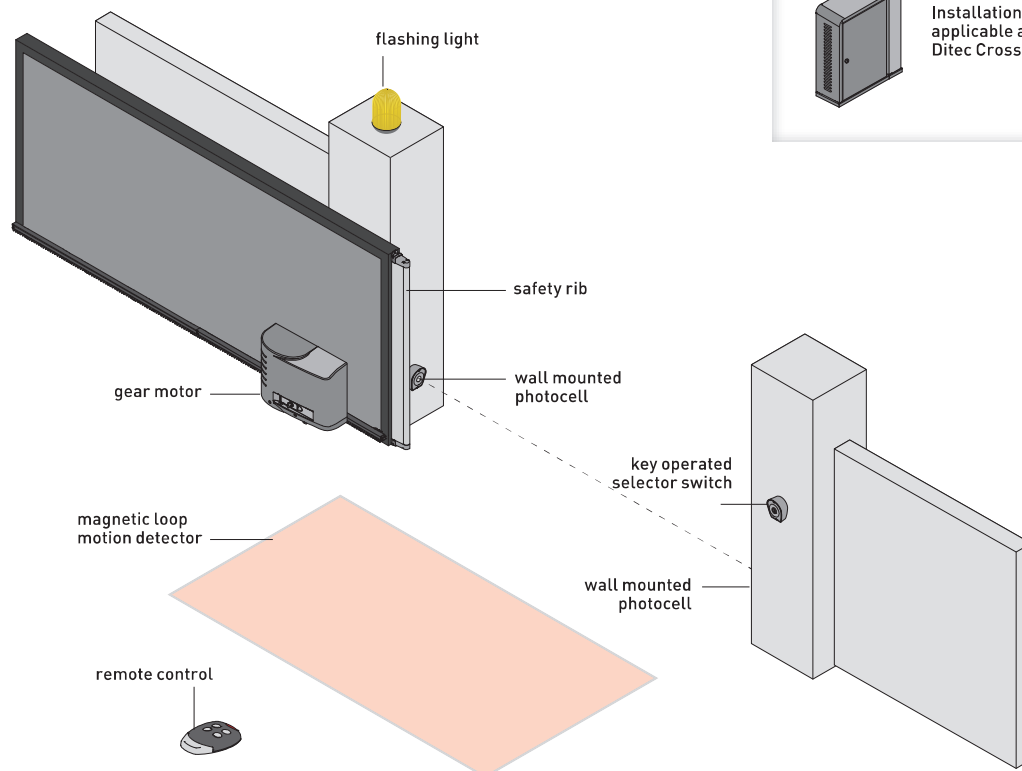
Description: electromechanical gear motor	NeoS 300 - NeoS+ 300	NeoS 400 - NeoS+ 400	NeoS 600 - NeoS+ 600	NeoS+ 1000
Stroke control	virtual encoder	virtual encoder	limit switch + virtual encoder	limit switch + virtual encoder
Gate leaf weight	300 kg	400 kg	600 kg	1000 kg
Maximum opening	12 m	12 m	20 m	20 m
Service index	4 - intensive	4 - intensive	4 - intensive	4 - intensive
Intermittent operation	S2 = 30 min S3 = 50%	S2 = 30 min S3 = 50%	S2 = 30 min S3 = 50%	S2 = 30 min S3 = 50%
Power absorption	230 V AC 50/60 Hz	230 V AC 50/60 Hz	230 V AC 50/60 Hz	230 V AC 50/60 Hz
Motor power supply	24 V DC	24 V DC	24 V DC	24 V DC
Power input	1.2 A	1.2 A	1.5 A	2 A
Thrust	300 N	400 N	600 N	1000 N
Opening and closing speed	0.1 - 0.25 m/s	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	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 24D	IP 24D	IP 24D	IP 24D
Product dimensions (mm)	335x210x307	335x210x307	335x220x325	335x220x325

## System functions

Description	NeoS 300 - NeoS 400 NeoS 600	NeoS+ 300 - NeoS+ 400 NeoS+ 600 - NeoS+ 1000
Control panel	ref. CS12E for 1 24 V DC motor with built-in receiver	ref. CS12M for 1 24 V DC motor with built-in receiver
Radio frequency	433.92 MHz standard 868.65 MHz (with GOL868R4)	433.92 MHz standard 868.65 MHz (with GOL868RS)
Mains power supply	230 V AC / 50/60 Hz	230 V AC / 50/60 Hz
Batteries	■ (optional)	■ (optional)
 Energy saving mode		■
Solar energy ready		■ (ready)
Accessories power supply	24 V DC / 0.3 A	24 V DC / 0.5 A
Flashing light	24 V DC	24 V DC
Gate open warning light and open gate indicator output		■
Courtesy light output (up to 400 W)		■
External LED output		■
Micro USB connection per PC diagnostic		■
Automatic closing activated by external timer or remote signal (opening/closing can be programmed daily/weekly)		■
8,2 KΩ input for safety edge	■ (with GOPAV system)	■ (with GOPAV system)
Force setting	via display	via display
ODS - Obstruction Detection System	■	■
Speed setting	via display	via display
Braking / slowing down	via display	via display
Partial opening control	■ (only with remote control)	■ (with remote control and selector)
Open / Close control	■	■
Temporised automatic closing	■	■
Hold-to-run control	■	■
Emergency stop / reverse	■	■
Safety test	■	■
Soft Start	■	■
NIO - Antifreeze system	■	■

# Examples of installation and technical characteristics

Ditec Cross 18 - Ditec Cross 19



## Technical specifications

Description: electromechanical actuator	Cross 18	Cross 18E	Cross 18VE	Cross 19V	Cross 30E
Travel control system	rotary stop	lever	magnetic mechanical stop	magnetic mechanical stop	magnetic mechanical stop
Capacity	1800 kg	1800 kg	1800 kg	1800 kg	3000 kg
Duty class	4 - heavy duty	4 - heavy duty	4 - heavy duty	4 - heavy duty	5 - very heavy duty
Intermittent operation	S2 = 30 min S3 = 50%	S2 = 30 min S3 = 50%	S2 = 30 min S3 = 50%	S2 = 30 min S3 = 50%	S3 = 100%
Power supply	230 V AC 50 Hz	230 V AC 50 Hz	230 V AC 50 Hz	400 V AC 50 Hz	400 V AC 50 Hz
Input	3 A	3 A	3 A	1.2 A	2.1 A
Thrust	1200 N	1200 N	1200 N	1500 N	3000 N
Opening speed	0.2 m/s	0.2 m/s	0.2 m/s	0.2 m/s	0.16 m/s
Closing speed	0.2 m/s	0.2 m/s	0.2 m/s	0.2 m/s	0.16 m/s
Max stroke	11 m	20 m	20 m	20 m	20 m
Release system for manual opening	key operated	key operated	key operated	key operated	a 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	-20°C / +55°C
Protection rating	IP 24D	IP 24D	IP 24D	IP 24D	IP 45
Product Dimensions (mm)	440x205x375	440x205x375	440x205x375	440x205x375	530x275x588
Control panel	E1A LOGICM	E1A (built in)	LOGICM (built in)	E1T	E1T (built in)

## System functions

Description	Cross 18 - 18E	Cross 18 -18VE	Cross 19V - Cross30E
Control panel	ref. E1A for 1 230 V AC motor with built-in radio	ref. LOGICM for 1 or 2 230 V AC motors	ref. E1T for 1 three-phase 400 V AC motor
Mains power supply	230 V AC / 50/60 Hz	230 V AC / 50/60 Hz	230 V AC / 50/60 Hz
Accessories power supply	24 V DC / 0.5 A	24 V DC / 0.5 A	24 V DC / 0.5 A
Flashing light	230 V AC	230 V AC and 24 V DC	24 V DC
Gate open warning light (signals incomplete closure)	from limit switch	from limit switch and analogue	from limit switch
Courtesy light	■	■ (only with 1 motor)	
Limit switch provision	■	■	■
Force adjustment control setting	transformer	transformer	
ODS - Obstruction Detection System (halts or reverses movement if an obstacle is detected)	■	■	
Operation time adjustment	■	■	
Open control	■ (with dip-switch)	■	■ (with dip-switch)
Partial opening control	■ (with radio only)	■	■
Close control	■	■	■
Temporised automatic closing	■	■	■
Inching control	■	■	■
Hold-to-run control	■	■	■
Stop safety device	■	■	■
Reverse operation safety device	■	■	■
Safety Test Facility (for SOF self-testing safety devices)	■	■	■
NIO - Antifreeze system (for maintaining motor efficiency even at very low temperatures)	■	■	
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



# VER SAT ILE

Ditec arm automation system with articulated arm, the ideal solution for complex situations.

Automation for swing gates, ideal for medium and heavy duty applications. Quiet, hard-wearing and easy to install, can be configured to meet any need – even complex ones such as very large wings or out-of-plumb pillars.



# Ditec Facil

**Simple and versatile, for swing gates with doors up to 2.3 metres**  
**For heavy duty**

Ditec Facil has been designed to be simple to install and easy to connect, being able use many various types of motor it is highly practical.

The ABS guard ensures good resistance against the weather and boasts high quality and elegant finishes, simple and clean lines, and can blend perfectly to any type of entrance.

## No problem in case of power failure

The key operated, easily accessible release door is built into the front of the cast aluminium casing **01**.

The Deb 04 device, which is easily operated with a cord, allows the automation to be remotely controlled without opening the door.

## Carefully designed with safety in mind

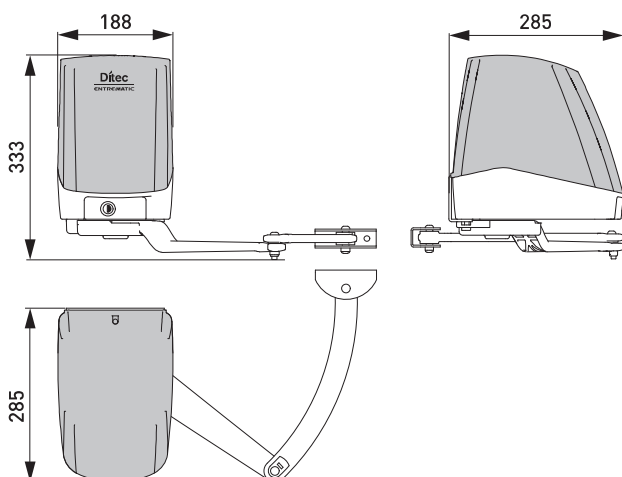
The shape of the articulated arm and its connection to the casing **02** have been designed to avoid any shearing problems.

Ditec Facil is fitted with built in and adjustable open-close mechanical stops.

A limit switch unit can be installed to supply visual indicators or to stop the wing.



## Dimensions



## Ready and simple to install

Ditec Facil features a built-in electronic panel which can easily be removed, leading to obvious advantages during the installation stage as well as when performing any maintenance on the automation.

After removing the guard, the see-through control panel enclosure can be taken out to reveal the controls.

## Accessories

- Key operated handle with 5 m remote release cord
- Limit switch unit
- Internal and external battery for VIVA H control panel
- Straight arm



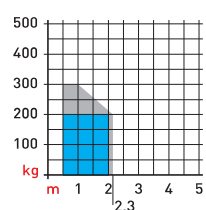
## Product range

FACIL3H	up to 2.3 m
FACIL3EH	up to 2.3 m, built-in control panel and radio receiver

## Operation diagrams

- Recommended use
- Operation limit

FACIL3H - FACIL3EH





# Ditec Arc

Easy to install and versatile, for swing gates with doors up to 5 metres  
For heavy duty

## Versatile

Ditec Arc allows easy installation, can move even very large wings, and is available with 24 V DC power supply, ensuring high operating safety.

## Ensures long-lasting operational reliability

Ditec Arc key release system is easy to access. In case of power failure, the 24 V DC version ensures some emergency automatic operations, taking the necessary power supply from the battery (optional).

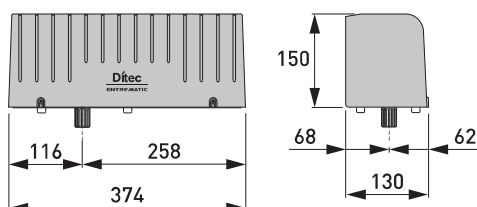
The ABS casing offers a greater resistance to atmospheric agents.

## Accessories

- Key operated handle with 5 m remote release cord
- Limit switch unit
- Internal and external battery for VIVA H control panel
- Gear motor side fastening plate
- Adjustable stop



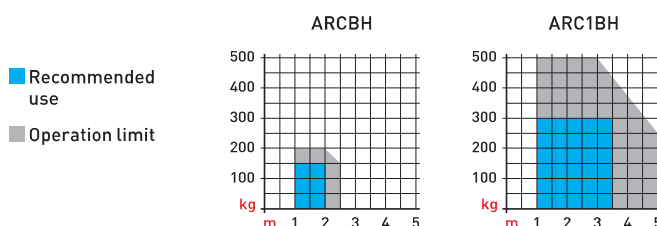
## Dimensions



## Product range

ARCBH	up to 2.5 m
ARC1BH	up to 5 m

## Operation diagrams





# INVIS IBLE

**Underground automation for Ditec Cubic 6 swing gates do not alter the aesthetics or style of the gate.**

There are several issues that come into play when it comes to buying a house: looks, comfort, proximity to facilities and, above all, security. Convenience and security start at the entrance to the property. Ditec Cubic 6, the range of underground control systems for swing gates, is the solution which meets this requirement.



# Ditec Cubic 6

**The invisible automation**  
**For medium and heavy duty**

## Ideal for architecturally fine gates

Ditec Cubic 6 is an underground automation for swing gates. Unobtrusive on its visible parts, the product allows the gate to open and close without interfering with its look and style. This makes it the ideal solution for fine gates and entrances, such as those fitted to architecturally attractive or historically significant buildings, or for any application where style, look or elegance should be kept unaltered.

## Concealed, sturdy and versatile

Practical and simple to operate, the automation consists of a stainless steel or electrically galvanised steel foundation casing fitted below the ground, where the geared motor and all mechanical linkages which operate the gate leaves are housed.

This highly versatile solution which can be customised to individual requirements:

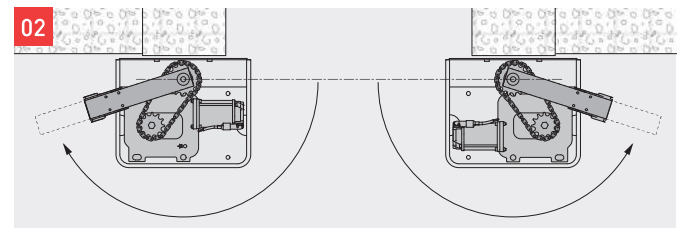
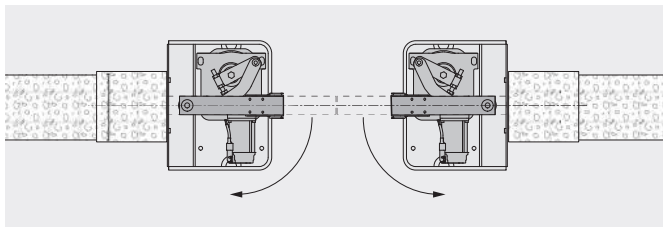
- allows the gate to be opened at a very wide angle, up to 180°;
- combined with Ditec electrical control panels, the automation allows the motor to successfully overcome any initial friction caused by bad weather conditions such as ice;
- can also be used in applications requiring fast access.

## Distinctive features

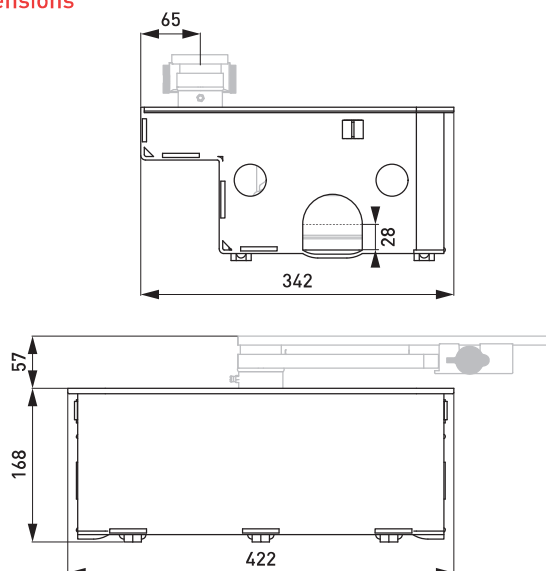
- The gear motors are housed in a sturdy stainless steel or electrically galvanised steel foundation casing to increase resistance to weathering; the automation is fixed by means of stainless steel screws pre-built in the foundation casing
- In the 110° angle version **01**, rotation is done by a lever system, whilst in the 180° angle version rotation is done by a chain **02**
- CE mark
- Aesthetically pleasing release system with key and lever which may be operated from both sides
- Works even at low temperatures
- Motor protected by an internal temperature probe
- Supplied with all security, control and monitoring accessories
- Wing support system on hardened steel ball

## Special accessories

- Internal mechanical stop both for opening and closing operations
- Magnetic limit switches
- DIN key



## Dimensions

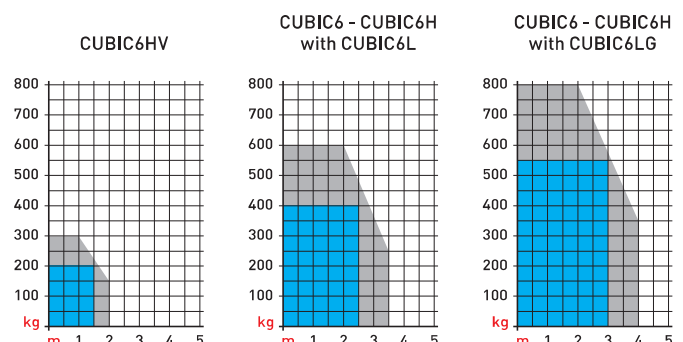


## Product range

CUBIC6HV	up to 1.5 m
CUBIC6 - CUBIC6H	up to 3.5 m

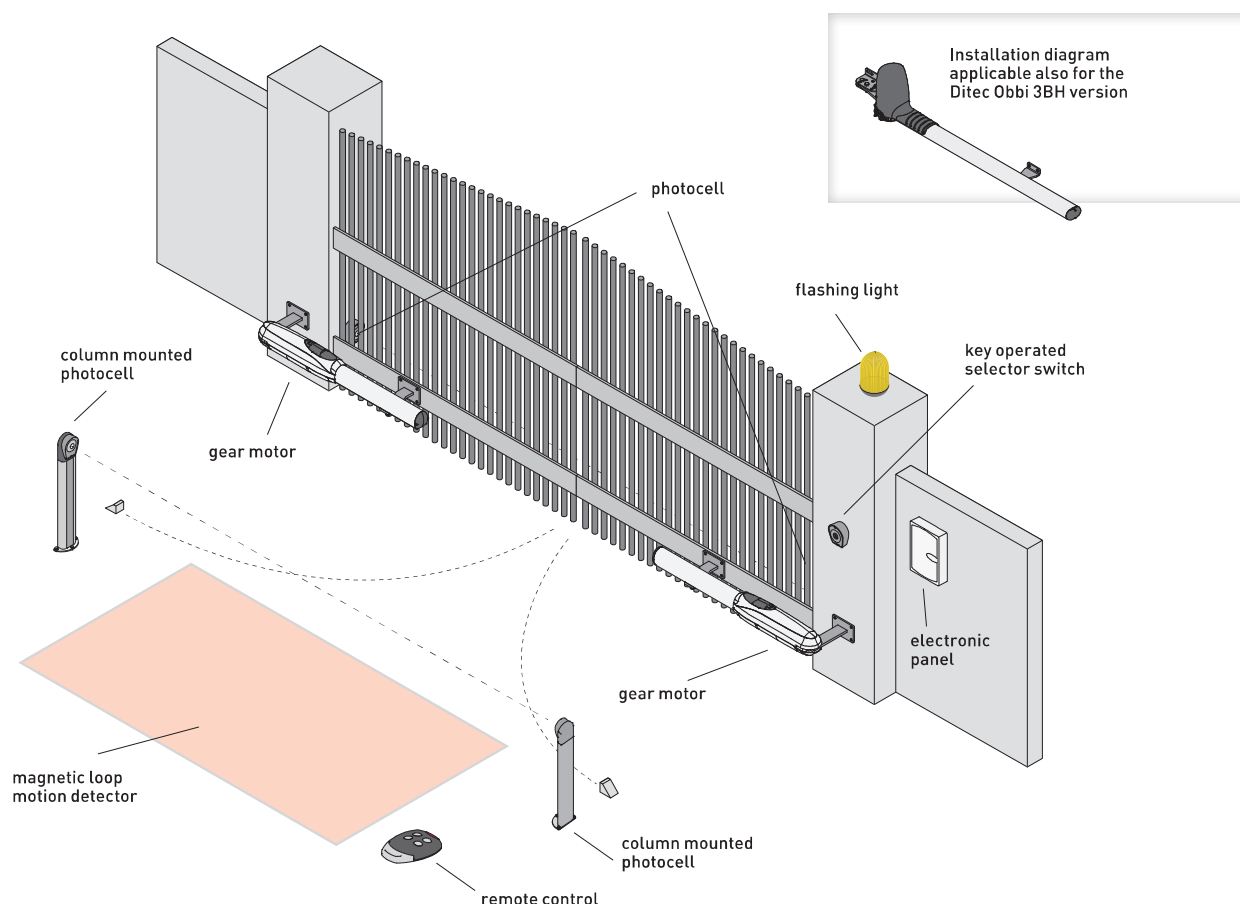
## Operation diagrams

■ Recommended use ■ Operation limit



# Examples of installation and technical characteristics

## Ditec Luxo

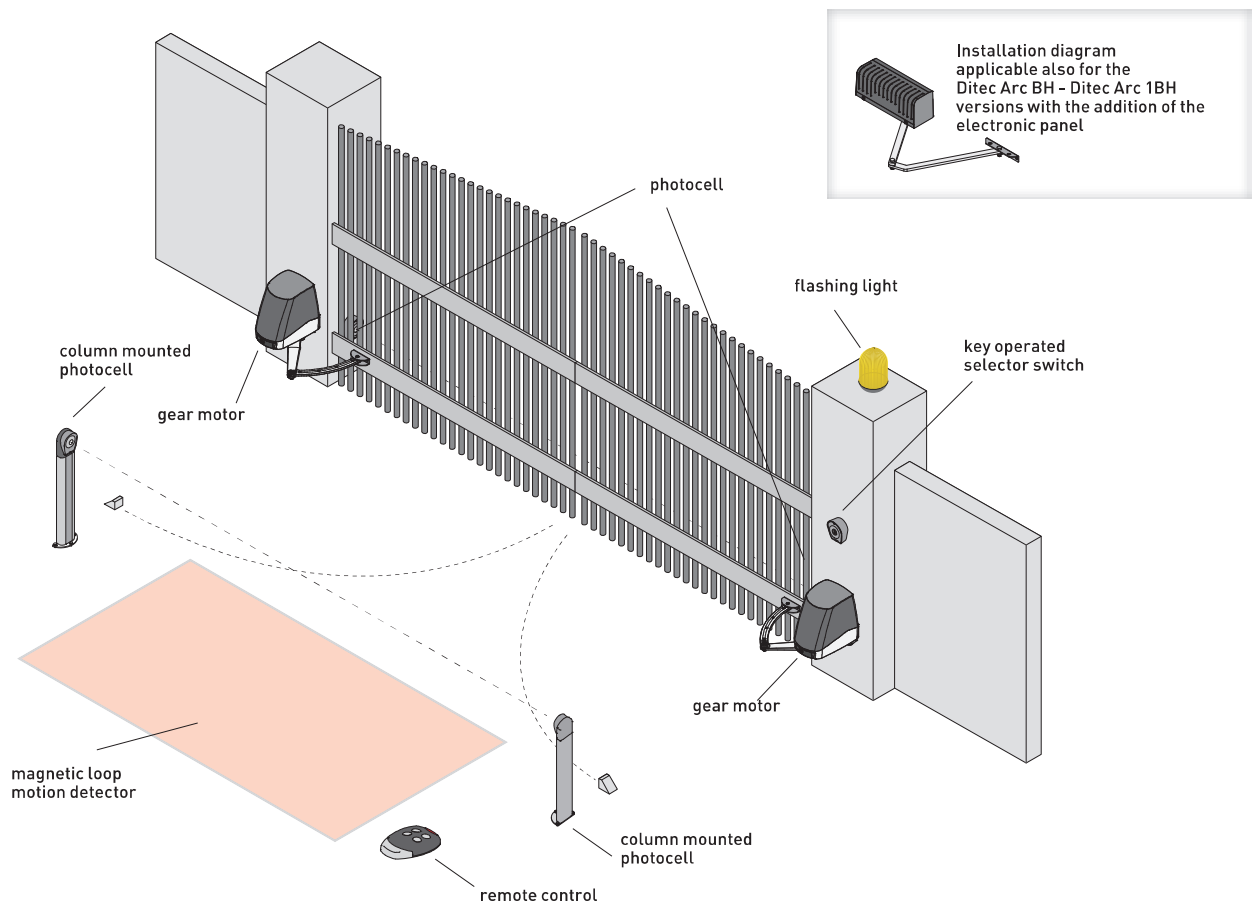


## Technical specifications

Description	Obbi 3BH	Luxo 3B	Luxo 3BH	Luxo 4BH	Luxo 5B	Luxo 5BH-5VBH
Electromechanical actuator	irreversible for up to 3 m wide wing	irreversible and reversible for up to 3.5 m wide wing	irreversible for up to 3.5 m wide wing	irreversible for up to 4 m wide wing	irreversible and reversible for up to 5 m wide wing	irreversible for up to 5 m wide wing
Stroke control		lever-operated limit switch (optional)	lever-operated limit switch (optional)	lever-operated limit switch (optional)	lever-operated limit switch (optional)	lever-operated limit switch (optional for 5BH)
Maximum capacity	250 kg x 1.5 m 150 kg x 3 m	350 kg x 2.5 m 250 kg x 3.5 m	300 kg x 2.5 m 200 kg x 3.5 m	350 kg x 2.5 m 200 kg x 4 m	500 kg x 3 m 250 kg x 5 m	500 kg x 3 m 250 kg x 5 m
Duty class	3 - medium duty	4 - heavy duty	4 - heavy duty	4 - heavy duty	4 - heavy duty	4 - heavy duty
Intermittent operation	S2 = 30 min S3 = 50%	S2 = 20 min S3 = 50%	S2 = 20 min S3 = 50%	S2 = 20 min S3 = 50%	S2 = 20 min S3 = 50%	S2 = 20 min S3 = 50%
Power supply	24 V DC	230 V AC / 50 Hz	24 V DC	24 V DC	230 V AC / 50 Hz	24 V DC
Power input	3 A	1.1 A	4 A	4 A	1.1 A	12 A
Thrust	1500 N	3000 N	2000 N	2000 N	3000 N	3000 N
Opening time	25 s/90°	22 s/90°	22 s/90° (E2HLX) 20-30 s/90° (VIVA H)	22 s/90°	32 s/90°	20-45 s/90°
Max stroke	350 mm	350 mm	350 mm	500 mm	500 mm	500 mm
Actuator maximum opening	110°	110°	110°	120°	120°	120°
Release system for manual opening	key-operated	key-operated	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]	-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 54	IP 24D	IP 24D	IP 24D	IP 24D	IP 24D
Product dimensions [mm]	110x200x995	100x120x890	100x120x890	100x120x1040	100x120x1040	100x120x1040
Control panel	E2HOB VIVA H	E2 LOGIC M	E2HLX VIVA H	E2HLX VIVA H	E2 LOGIC M	VIVA H



## Ditec Facil

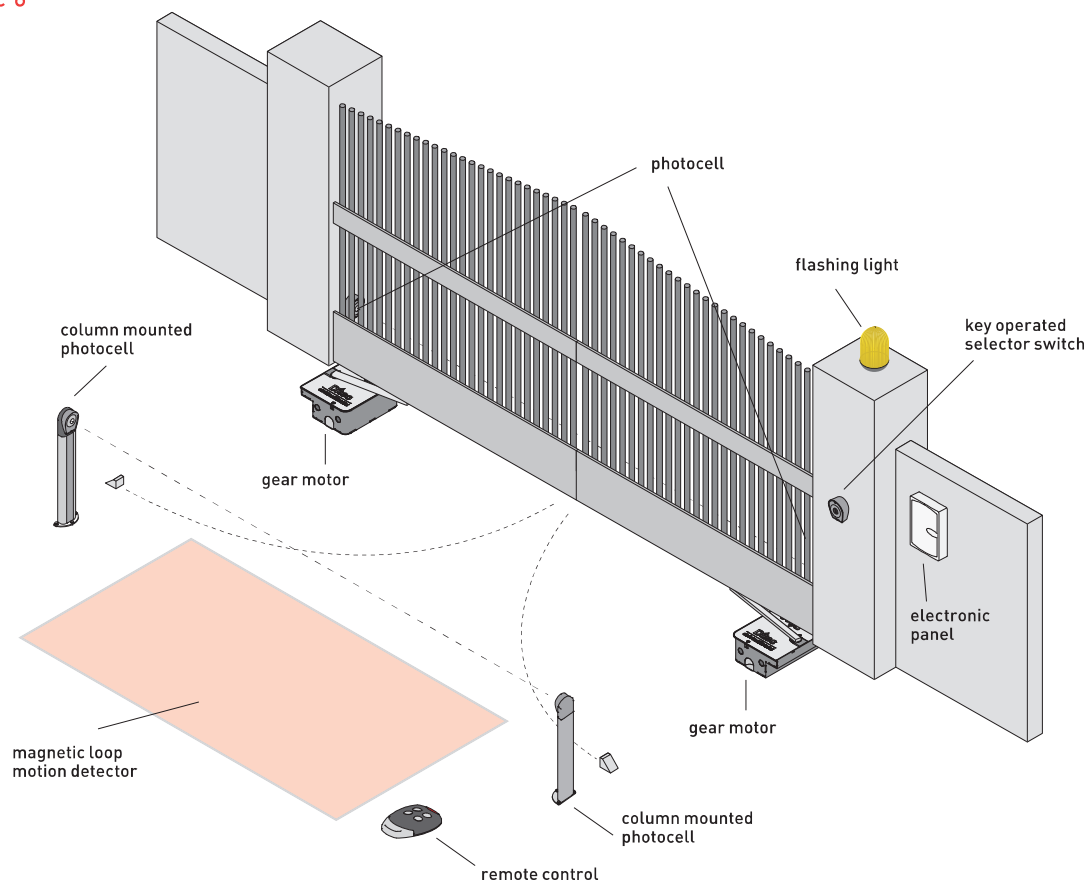


## Technical specifications

Description	Facil 3H	Facil 3EH	Arc BH	Arc 1BH
Electromechanical actuator	irreversible for up to 2.3 m wide wing	irreversible for up to 2.3 m wide wing	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)	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	200 kg x 2 m 150 kg x 2.5 m	500 kg x 3 m 250 kg x 5 m
Duty class	3 - heavy duty	3 - heavy duty	4 - heavy duty	4 - heavy duty
Intermittent operation	S2 = 30 min S3 = 50%	S2 = 30 min S3 = 50%	S2 = 30 min S3 = 50%	S2 = 30 min S3 = 50%
Power supply	24 V DC	24 V DC	24 V DC	24 V DC
Power input	6 A	6 A	3 A	12 A
Torque	200 Nm	200 Nm	150 Nm	300 Nm
Opening time	12÷32 s/90°	12÷32 s/90°	15÷18 s/90°	15÷30 s/90°
Actuator maximum opening	110°	110°	130°	130°
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 rating	IP 54	IP 54	IP 54	IP 54
Product dimensions (mm)	188x285x332	188x285x332	374x130x150	374x130x150
Control panel	E2HFC (with FACIL3EH) VIVAH	E2HFC (built-in)	E2HAR VIVA H	VIVA H

# Examples of installation and technical characteristics

## Ditec Cubic 6



## Technical specifications

Description	Cubic 6	Cubic 6H	Cubic 6HV
Electromechanical actuator	irreversible for up to 3.5 m wide wing	irreversible for up to 3.5 m wide wing	irreversible for up to 1.5 m wide wing
Stroke control	magnetic limit switch (optional)	magnetic limit switch (optional)	magnetic limit switch (optional)
Maximum capacity	600 kg x 2 m 250 kg x 3,5 m	600 kg x 2 m 250 kg x 3,5 m	200 kg x 1,5 m
Duty class	3 - medium duty	4 - heavy duty	4 - heavy duty
Intermittent operation	S2 = 15 min S3 = 25%	S2 = 30 min S3 = 50%	S2 = 30 min S3 = 50%
Power supply	230 V AC / 50 Hz	24 V DC	24 V DC
Power input	1,5 A	12 A	12 A
Torque	340 Nm	340 Nm	220 Nm
Opening time	18 s/90°	12÷25 s/90°	6÷13 s/90°
Actuator maximum opening	110° or 180°	110° or 180°	110° or 180°
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	E2 LOGICM	VIVA H	VIVA H

## System functions

Description	Obbi 3BH	Luxo 3BH - 4BH	Luxo 3B - 5B Cubic 6	Luxo 3B - 5B Cubic 6	Obbi 3BH Luxo 3BH - 4BH Luxo 5BH - 5VBH Facil 3H Arc BH - 1BH Cubic 6H - 6HV	Facil 3H - 3EH Arc BH
Control panel	ref. E2HOB for 1 or 2 motors 24 V DC with built-in radio	ref. E2HLX for 1 or 2 motors 24 V DC with built-in radio	ref. E2 for 1 or 2 motors 230 V AC with built-in radio	ref. LOGIC M for 1 or 2 230 V AC motors	ref. VIVA H for 1 or 2 24 V DC motors	ref. E2HFC - E2HAR for 1 or 2 motors 24 V DC with built-in radio
Mains power supply	230 V AC / 50/60 Hz	230 V AC / 50/60 Hz	230 V AC / 50 Hz	230 V AC / 50 Hz	230 V AC / 50/60 Hz	230 V AC / 50/60 Hz
Batteries	■ (optional)	■ (optional)			■ (optional)	■ (optional)
 Energy saving	reduced consumption when in use	reduced consumption when in use	reduced consumption when in stand-by		reduced consumption when in use	reduced consumption when in use
Accessories power supply	24 V DC / 0.5 A	24 V DC / 0.5 A	24 V DC / 0.5 A	24 V DC / 0.5 A	24 V DC / 0.5 A	24 V DC / 0.5 A
Electro-mechanical lock	24 V DC / 1.2 A	24 V DC / 1.2 A	12 V DC / 15 W	24 V DC / 1.2 A	24 V DC / 1.2 A	24 V DC / 1.2 A
Flashing light	24 V	24 V	230 V	230 V and 24 V	24 V	24 V
Gate open warning light	analogue	analogue	from limit switch and analogue	from limit switch and analogue	analogue	analogue
Courtesy light			■ (1 motor only)	■ (1 motor only)	24 V	24 V
Limit switch provision		■	■	■	■	■
Encoder (to control speed and deceleration)	virtual encoder	virtual encoder			virtual encoder	virtual encoder
Force setting	display	display	electronic	transformer	automatic	display
ODS - Obstruction Detection System	■	■	■	■	■	■
Speed setting	display	display			■	display
Braking/slowing down	display	display			■	display
Time setting	display	display	■	■	■	display
Open control	■	■	■ (with dip-switch)	■	■	■
Partial opening control	■	■	■ (with radio only)	■	■	■
Close control	■	■	■	■	■	■
Temporised automatic closing	■	■	■	■	■	■
Inching control	■	■	■	■	■	■
Hold-to-run control	■	■	■	■	■	■
Emergency stop	■	■	■	■	■	■
Emergency reverse	■	■	■	■	■	■
Safety Test	■	■		■		■
NIO - Antifreeze System	■	■		■	■	■
Soft start	■	■			■	■
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	-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 55	IP 55	IP 55	IP 55	IP 55	
Product dimensions (mm)	187x261x105	187x261x105	187x261x105	187x261x105	238x357x120	



A photograph of a modern building with a corrugated metal facade and large glass windows. In the foreground, there is a Ditec barrier system with a red and white arm and a blue sensor unit. The sky is blue with some clouds. The text 'SAFE REL' is overlaid in large, bold, green letters.

# SAFE REL

Smartly designed,  
yet practical and safe,  
to ensure a long life

# E AND IABLE

**Soft edges, rounded corners, high performance and suitability for any type of installation environment**

Ditec Qik is the ideal solution for a totally safe access control of medium to high transit environments such as hotels, banks, shopping malls, as well as blocks of flats, companies and camp sites, which always require access control of car parking areas, to ensure their use to authorised people only.

The Ditec Qik barriers are available in grey or in stainless steel, the ideal solution for harsher environments such as areas near the sea.





**01** Two different types of cabinet to cater to various needs: one, slim-line and stylish for entrances of up to 5.8 metres, and one larger size for entrances of up to 7.6 metres, meeting the requirement for greater sturdiness and conveying stronger-impact aesthetics. The electronic panel is positioned on the top part of the barrier at a height that permits easier access to components and therefore allows conveniently carrying out setting and maintenance jobs.

The top structure has a provision for an aerial to be installed to avoid any vandal attacks.

The pickled, metallic colour painted sheet metal does not degrade with time, despite adverse weather conditions, and gives Ditec Qik a clean look.

**02** The key operated lever release system can be promptly accessed from the inspection side; fitted with a cover plate, the system can safely handle all emergencies in case of power failure.

**03** The aluminium arm, round or elliptical, has been designed to avoid any shearing problems, thanks to a rubber guard located in the top and bottom section and to the rounded design of the rotation pin.

The round arm can be up to 7.6 metres long.

The elliptical shape ensures better wind resistance, thus avoiding any swinging in the 5.8 metre version.

The arm is fitted with a rubber end plug and a provision for accessories (pivot pins, red reflective strips, fixed and moving mountings, vandal proof electrically operated lock, skirting and battery kit).

**04** To ensure more visibility in the more demanding applications, the direct current version is fitted with an arm lighting kit: the LED goes off when the arm is up; it flashes when the arm is moving and is continuously lit when the arm is down, in order to enhance its outline.

**05** The balancing system uses a single compression spring. Five (differently coloured) springs are available. These springs, when correctly positioned and adjusted, allow the arm to be correctly balanced according to its dimension.

The system can be installed either on the right or on the left hand side by simply changing its position.

Two limit switches fitted to the alternating current version and one encoder to the direct current version allow further adjustments to the arm to be made in order to satisfy all possible requirements. Ditec Qik is also fitted with two adjustable mechanical stops.



# Ditec Qik

Truly innovative shapes and uncompromising safety

- CE marking
- Alternating current motor for base applications and direct current motor with high performance in terms of speed and number of operations
- Gear motor aligned with the barrier exit in order to eliminate the lever system and facilitate access to the control unit
- Simple to install, the system ensures a very easy access to the control unit
- The 24 V DC version with encoder and limit switch allows slowdowns and speed control. Possibility of using batteries and operating intermittency
- In the Ditec Qik 80, the MD2 display module can be used for the diagnostics and enhanced control of panel adjustments, updatable by means of DMCS software.

## Clean look and attention to details for heavy duty applications

All rivets are made of stainless steel and have no welding to ensure long life and maintain their features unaltered. The monobloc aluminium die-cast reduction unit ensures easy installation, longer life and easy cleaning.

## Tested to over a million operating cycles

The low stress reduction unit ensures a very high number of operations. The test carried out on the unit has achieved with ease a staggeringly high number of operations, over 1,500,000.

## Access system built with safety in mind

The Ditec Qik barriers, when matched to the LAN control systems, solve all access problems and are very easy to use. To allow employees and key customers to operate the barrier, a wide range of solutions are available: a remote control, a traditional key or keypad operated selector switch, a "LAN transponder" system or a "coin" system, which allows the barrier to be operated only once. This is a great solution for hotels, sport centres, shops and restaurants, visited by users who need temporary, quick and simple access. Furthermore, the "magnetic loop" system is inherently very practical and simple to use.

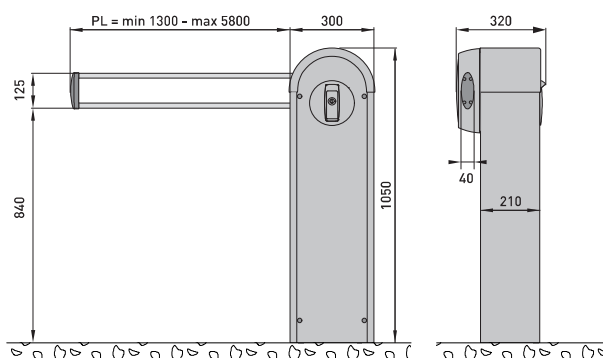
The detector, when installed on the pavement, allows the exit barrier to be automatically operated when a vehicle goes over it, thus ensuring a regular flow of vehicles and avoiding unwelcome queues.

## Specific accessories

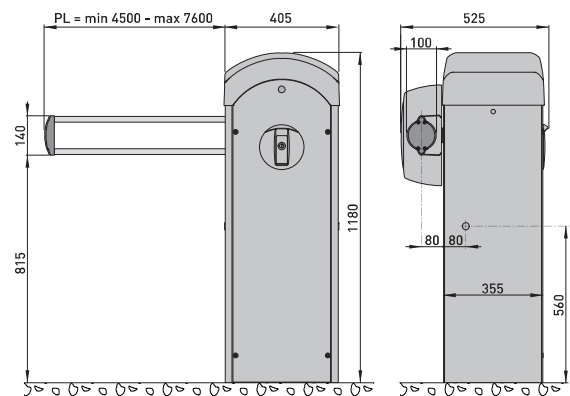
- Red reflective strips
- Fixed mounting
- Moving mounting
- Vandal proof electrically operated lock
- Aluminium skirting
- Arm pivot pin kit at 90°
- Batteries / Light kit
- Display module for diagnostics and enhanced control

## Dimensions

Qik 4E - Qik 7EH



Qik 80EH

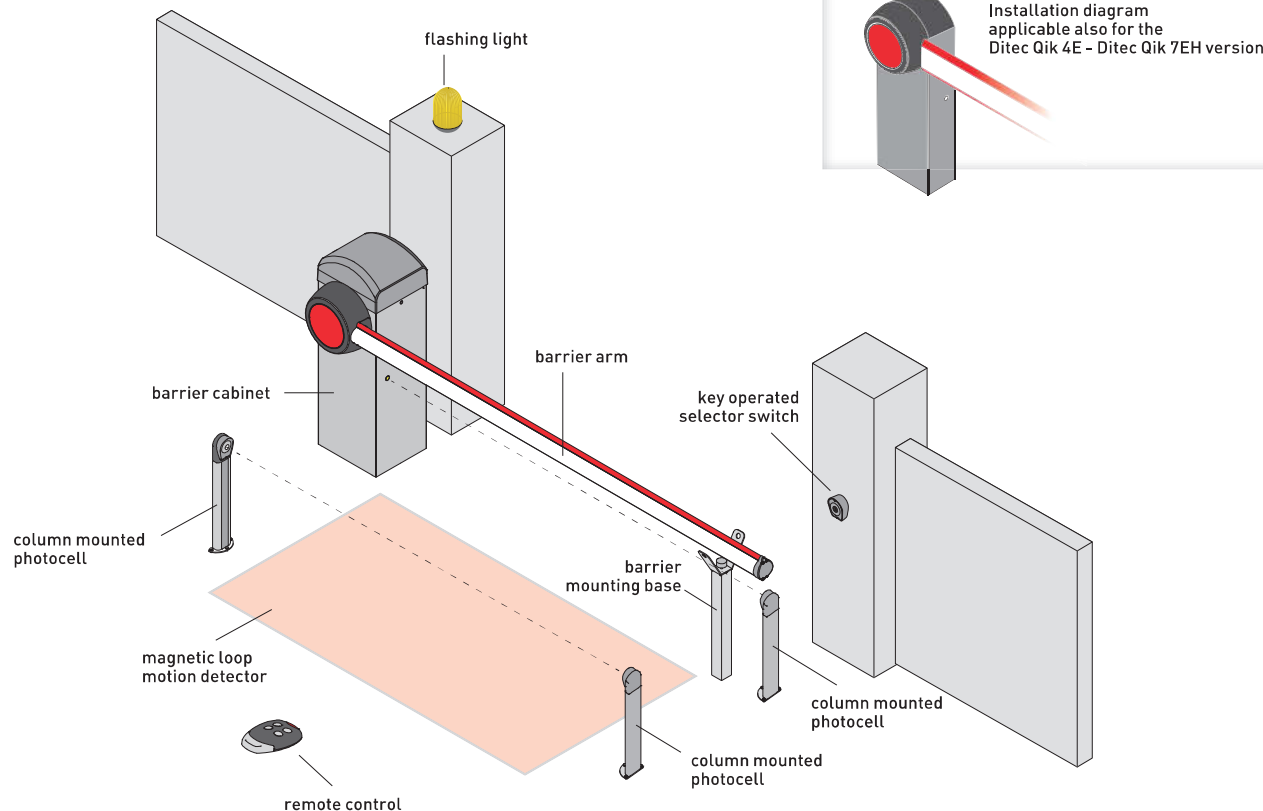


## Product range

QIK4E	up to 3,5 m
QIK7EH	up to 5,8 m
QIK80EH	up to 7,6 m

# Examples of installation and technical characteristics


## Ditec Qik 80EH



## Technical specifications

Description	Qik 4E	Qik 7EH	Qik 80EH
Barriers	up to 3.5 m long	up to 5.8 m long	up to 7.6 m long
Travel control system	lever-type limit switch	encoder	encoder + limit switch
Arm length up to	3.7 m	6 m	7.95 m
Arm	elliptic	elliptic	round
Duty class	4 - heavy	5 - very heavy	4 - heavy
Intermittent operation	S2 = 15 min S3 = 30%	S2 = 60 min S3 = 60%	S2 = 50 min S3 = 50%
Power supply	230 V~ / 50 Hz	230 V~ / 50/60 Hz	230 V~ / 50/60 Hz
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, -10°C / +50°C with battery)	-20°C / +55°C (-35°C / +55°C with NIO enabled, -10°C / +50°C with battery)
Protection rating	IP 24D	IP 24D	IP 24D
Product dimensions (mm)	300x320x1050	300x320x1050	405x525x1180
Control panel	E1A (built-in)	EL31R (built-in)	EL34 (built-in)

## Main system functions

Description	Qik 4E	Qik 7EH	Qik 80EH
Control panel	ref. E1A for 1 230 V~ motor with built-in radio	ref. EL31R for 1 24 V= motor with built-in radio	ref. EL34 for 1 24 V= motor with built-in radio decoder
Mains power supply	230 V~ / 50 Hz	230 V~ / 50/60 Hz	230 V~ / 50/60 Hz
Batteries		■ (optional)	■ (optional)
Energy saving 			reduced consumption when in use
Accessories power supply	24 V= / 0,5 A	24 V= / 0,3 A	24 V= / 0,5 A
Electrically operated lock		24 V= / 0,1 A	24 V= / 1 A
Flashing light	230 V AC	24 V DC	24 V DC
Automation open warning light	from limit switch	analogue	analogue
Courtesy light	■	■	■
Limit switch provision	■	■	■
Encoder to control speed and deceleration		■	■
Force setting	transformer	automatic	automatic
ODS - Obstruction detection system	■	■	■
Speed adjustment		■	■
Braking / Slowdown control		■	■
Operation time adjustment	■		
Open control	■ (with dip-switch)	■ (with dip-switch)	■
Partly open control	■ (with radio only)		
Close control	■	■	■
Automatic timed close control	■	■	■
Inching control	■	■	■ (with dip-switch)
Hold-to-run control	■	■	■
Stop safety device	■	■	■
Reverse operation safety device	■	■	■
Safety Test Facility	■	■	
Soft Start		■	
NIO - Antifreeze system	■	■	■
Instant closure after transit	■	■	■
Protection rating	IP 55	IP 55	IP 55



# The accessories that make all the difference

Ditec accessories allows various control and monitoring options

Available for all offered automation solutions

## Gol 4 Remote controls

Simply press a button on the remote control and the Ditec drive system springs into action. Thanks to this accessory, foul weather will never be a problem again.



## Caddies for Gol 4 remote controls

These can be positioned on any surface or on your car sun visor so you'll always have your remote control within easy reach.



## Gol 4M keyboard transmitter

Four channel coded control. Allows electrically operated entrances to be opened with radio signals by entering a code.



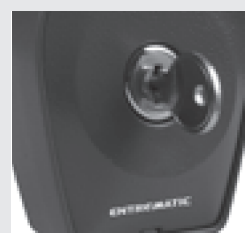
## Xel 2 and Lab 3 IR photocells

For a maximum level of safety in automation. Can be wall or vertical mounted. Modulated infrared beam.



## Xel 5 key operated selector switch

Fitted with a tamper proof device. Can be wall or column mounted.



## Lan 4 Digital keypad systems

With digital, anti-vandalism combination and secret code up to 8 digits.



# Control and security are in your hands

## Lamp

24 V and 230 V flashing light with flashing operation controlled from the control panel.



Available for all offered automation solutions\*

## Lan 7 control device with proximity control

Wireless identification system, featuring TRANSPONDER technology.



## Sof safety edges

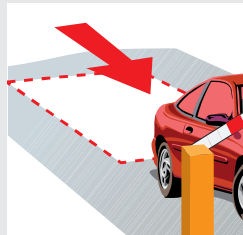
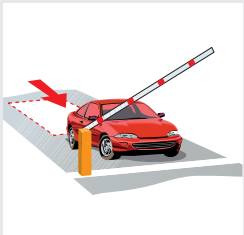
These are fitted to all entrance control systems to ensure maximum safety during opening and closing operations.



\*Not available for Ditec Qik

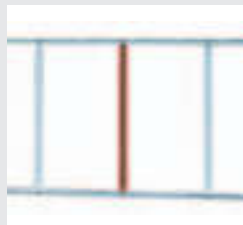
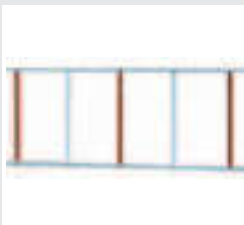
## Magnetic loop detector

Starts the barrier automatic opening operation when a car goes over the sensor fitted to the pavement and it detects the car going past it and stops the bar from closing until the car has gone through.



## Aluminium skirting

L = 2 m, painted red/white.



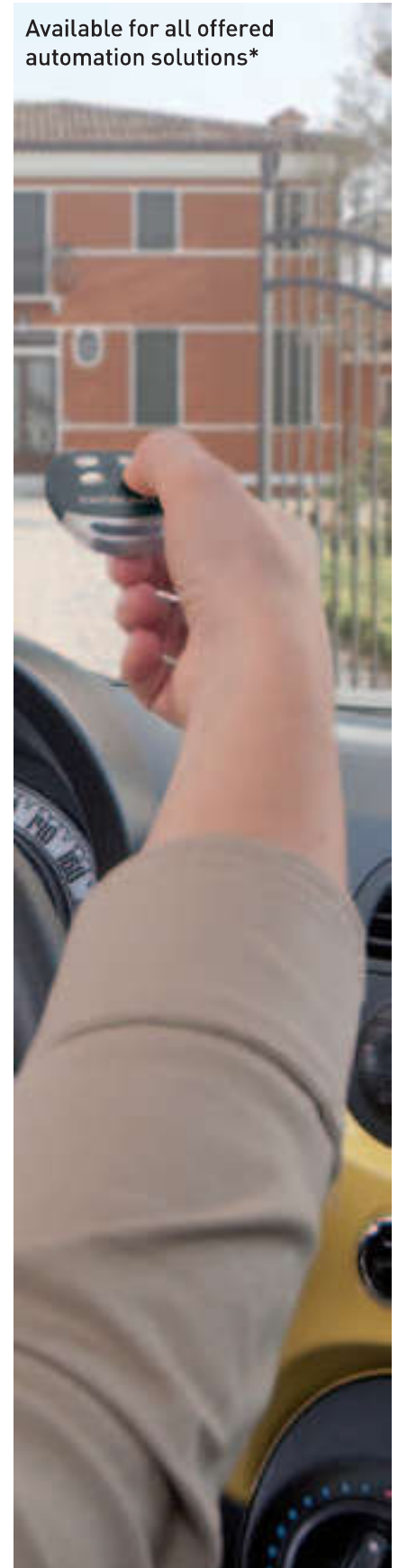
\*Available for Ditec Qik only

## Fixed and moving mounting

Fixed mounting to be installed on the ground, moving mounting to attach to the arm.



\*Available for Ditec Qik only



When building the system, only use Ditec accessories and safety devices.

Every Ditec automation features CE marking and is designed and built in compliance with the safety requirements of the Machinery Directive (2006/42/EC), of the Electromagnetic Compatibility Directive (2004/108/EC) and of the Low Voltage Directive (2006/95/EC) and of other Directives, laws, specific standards for special products and situations.

The Company reserves the right to make changes which may improve the products.

For this reason, the technical details given 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 at the website: [www.ditecentrematic.com](http://www.ditecentrematic.com)

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