Cross

Automations for sliding gates

DITEC

AUTOMATIC ENTRANCE SPECIALISTS

Automations for sliding gates

Sliding gates require flexible automations capable of managing different frame dimensions, different types of duty and different environmental conditions, always ensuring maximum operational safety, functioning and reliability. The Cross line meets all the different private, commercial and industrial needs.

Range of products

Depending on the weight of the wing.

Weight up to 300 kg
Cross 3E

Weight up to 400 kg
Cross 5E

Weight up to 600 kg
Cross 7E - 7EH

Weight up to 800 Kg
Cross 8E

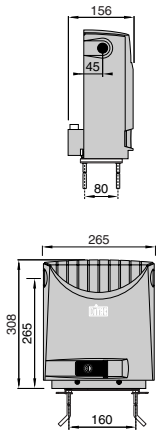
Weight up to 1400 kg
Cross 14 - 14E - 14VE

Weight up to 1500 kg
Cross 15V

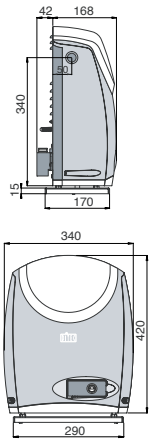
Weight up to 3000 kg
Cross 30 - 30E

Dimensions

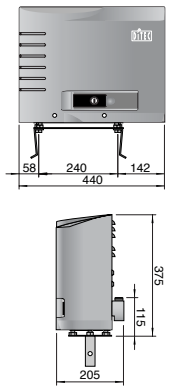
Cross 3E



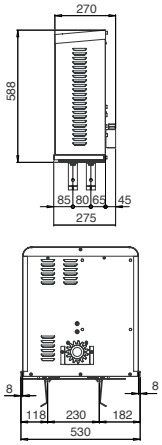
Cross 5E - 7E - 7EH - 8E



Cross 14 - Cross 15V



Cross 30 - 30E



Cross

A full, now wider, range of products for any type of service

These modern and fully equipped actuators are specifically designed to satisfy all most advanced technical and installation requirements. In particular, they come with a wide range of prearrangements for photocells, wiring and a trouble-free installation.

Cross 3E

Electromechanical actuator for sliding gates weighing up to 300 kg

It is ideal for frequent residential service

- Easily accessible, built-in electronic control panel with integrated radio;
- Easy key lock release through removable cover opening;
- Internal provision for photocells;
- 24 V DC motor with encoder and slow-down effect;
- Chain can be mounted on request.

Cross 7 e Cross 8

Aesthetically pleasing and technically accomplished

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

- Easily accessible, built-in electronic control panel with integrated radio;
- Easy key lock release through removable cover opening;
- Internal provision for photocells;
- New and special limit-switch brackets which are elongated and shaped so as to enable perfect adjustment and prevent accidental limit-switch disengagement;
- Modern-design, ABS case;
- Rugged and powerful motor;
- Courtesy light with (optional) fading effect;
- 24 V DC version (Cross 7EH);
- New base plate with precast wall anchors for trouble-free and quick installation.

Cross 5E

Rugged, powerful, Suitable for gates up to 400 kg

It is ideal for frequent residential service

- Easily accessible, built-in electronic control panel with integrated radio;
- Easy key lock release through removable cover opening;
- Internal provision for photocells;
- New and special limit-switch brackets which are elongated and shaped so as to enable perfect adjustment and prevent accidental limit-switch disengagement;
- Modern-design, ABS case;
- Rugged and powerful motor.

Cross 14 - 15

Electromechanical actuators for sliding gates weighing up to 1400 - 1500 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;
- Cross 14E with built-in radio;
- Rugged and powerful motor;
- Wide range of accessories to meet various operational requirements.

Cross 30 - 30E

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 (cross 30E).

Cross 3E

Cross 5E - 7E - 7EH - 8E

Technical specifications

	Cross 3E	Cross 5E	Cross 7EH	Cross 7E	Cross 8E
Description: electromechanical actuator	For sliding gates up to 300 kg	For sliding gates up to 400 kg	For sliding gates up to 600 kg	For sliding gates up to 600 kg	For sliding gates up to 800 kg
Limit switch	encoder	by lever	encoder	by lever	by lever
Load capacity	300 kg	400 kg	600 kg	600 kg	800 kg
Type of service/duty	frequent	frequent	heavy	heavy	heavy
Intermittence	S2 = 15 min S3 = 50%	S2 = 15 min S3 = 25%	S2 = 30 min S3 = 50%	S2 = 20 min S3 = 50%	S2 = 30 min S3 = 100%
Power supply	230 V AC/50-60 Hz	230 V AC/50 Hz	230 V AC/50-60 Hz	230 V AC/50 Hz	230 V AC/50 Hz
Insulation rate	1	1	1	1	1
Current	1.2 A	1.5 A	1.5 A	2 A	3 A
Torque/Thrust	150 N	500 N	600 N	700 N	800 N
Opening speed	0.12– 0.25 m/s	0.18 m/s	0.12-0.20 m/s	0.18 m/s	0.18 m/s
Closing speed	0.12– 0.25 m/s	0.18 m/s	0.12-0.20 m/s	0.18 m/s	0.18 m/s
Maximum stroke	7 m (rack) 5.7 (chain)	20 m	20 m	20 m	20 m
Manual opening lock release	by key	by key	by key	by key	by key
Operation temperature	-20°C/+55°C	-20°C/+55°C	-20°C/+55°C	-20°C/+55°C	-20°C/+55°C
Protection degree	IP 24D	IP 24D	IP 24D	IP 24D	IP 24D
Dimensions	265x155x397 mm	340x210x420 mm	340x210x420 mm	340x210x420 mm	340x210x420 mm
Control panel	73RP	E1 (built-in)	73RG (built-in)	E1A (built-in)	E1A (built-in)

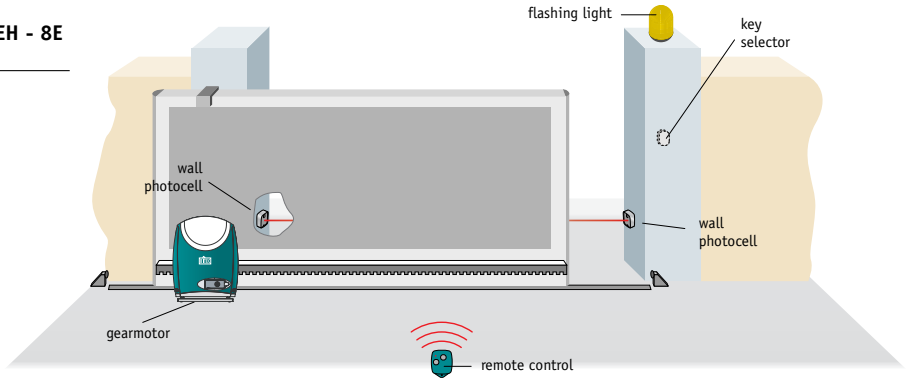
Cross 14 - 14E - 14VE e 15V

Cross 30 - 30E

	Cross 14	Cross 14E	Cross 14VE	Cross 15V	Cross 30 - Cross 30E
Description: electromechanical actuator	For sliding gates up to 1400 kg	For sliding gates up to 1400 kg	For sliding gates up to 1400 kg	For sliding gates up to 1500 kg	For sliding gates up to 3000 kg
Limit switch	rotary	by lever	magnetic	magnetic	magnetic
Load capacity	1400 kg	1400 kg	1400 kg	1500 kg	3000 kg
Type of service/duty	heavy	heavy	heavy	heavy	intensive
Intermittence	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
Insulation rate	1	1	1	1	1
Current	3 A	3 A	3 A	1.2 A	2.1 A
Torque/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
Maximum stroke	11 m	16 m	16 m	16 m	14 m
Manual opening lock release	by key	by key	by key	by key	by key
Operation temperature	-20°C/+55°C	-20°C/+55°C	-20°C/+55°C	-20°C/+55°C	-20°C/+55°C
Protection degree	IP 24D	IP 24D	IP 24D	IP 24D	IP 45
Dimensions	440x205x375 mm	440x205x375 mm	440x205x375 mm	440x205x375 mm	530x275x588 mm
Control panel	E1A LOGIC A21	E1A (built-in)	LOGIC A21 (built-in)	LOGIC T	LOGIC T (built-in on 30E)

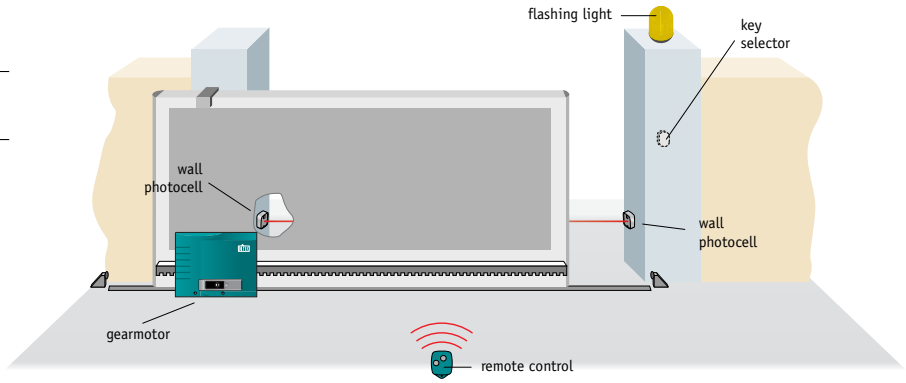
Example of installation

Cross 3E - 5E - 7E - 7EH - 8E
230V - 3 x 1,5 mm²

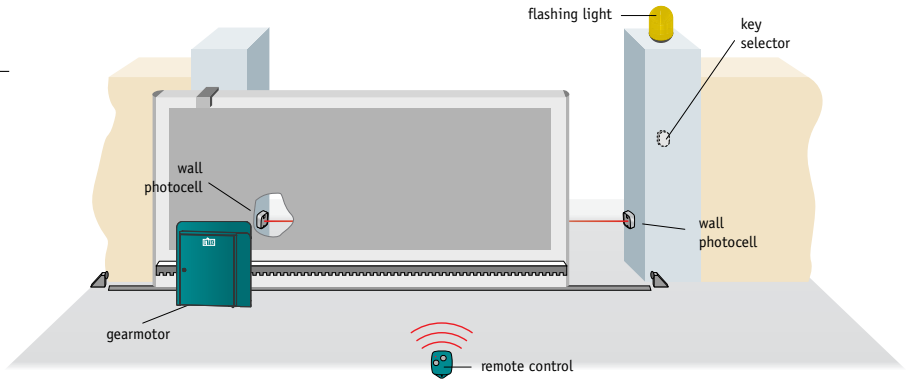


Cross 14 - 14E - 14VE
230V - 3 x 1,5 mm²

Cross 15V
400V - 4 x 1,5 mm²



Cross 30 - 30E
400V - 4 x 1,5 mm²



Specific accessories

	Cross 3E	Cross 7EH	Cross 5E-7E-8E	Cross 14 and 15	Cross 30 - 30E
Battery backup in case of power failure	**Bat K3**	**Bat K7**			
Lighting kit	**Lux K3 E**	**Lux K7**	**Lux K7**		
Nylon rack	**Cross CRP Cross CRN**	**Cross CRN**	**Cross CRN**		
Galvanized steel rack	**Cross CRI**	**Cross CRI**	**Cross CRI**	**Cross CRI**	**Cross CR6**
Chain traction kit	**Cross 3TC**	**Cross 7EHTC**		**Cross TC CAT 1-CAT G**	
Fastening plate	**Sup CS**	**Sup CS**	**Sup CS**		
Magnetic limit-switch kit		**FCMCR**	**FCMCR**	**FCMCR**	

Main functions of the automation

	CROSS 3E	CROSS 5E	CROSS 7E CROSS 8E CROSS 14 CROSS 14E	CROSS 7EH	CROSS 14 CROSS 14VE	CROSS 15V CROSS 30 CROSS 30E
	73RP	E1	E1A	73RG	LOGIC A21	LOGIC T
Description: Control panel	for 1 motor 24 V DC with built-in radio	for 1 motor 24 V DC with built-in radio	for 1 motor 230 V AC with built-in radio	for 1 motor 24 V DC with built-in radio	for 1 motor 230 V AC (multi-functional)	for 1three-phase motor 400 V AC (multi-functional)
Power supply	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 Hz	400 V AC/50 Hz
Battery back-up It provides power supply in the event of power failure	/ (optional)			/ (optional)		
Motor power supply	24 V DC / 8 A	24 V AC / 5 A	24 V AC / 5 A	24 V DC / 14 A	230 V AC / 5A	400 V AC / 6 A
Accessory power supply	24 V DC / 0.3 A	24 V DC / 0.5 A	24 V DC / 0.5 A	24 V DC / 0.3 A	24 V DC / 0.3 A	24 V DC / 0.3 A
Electric lock					24 V DC / 1.2 A	
Flashing light It provides a three-second warning before automatic closing	24 V DC	230 V DC	230 V DC	24 V DC	230 V DC and 24 V DC	24 V DC
Open gate signal It signals the gate is not completely closed	analogue	by limit-switch	by limit-switch	analogue	by limit-switch and analogue	by limit-switch
Courtesy light	/	/	/	/		
Provision for limit switches	/	/	/	/	/	/
Encoder Through the learning mode, the system recognizes the mechanical stops of the wing and can manage speed and slow-down effect during the following operations	/			/		
Thrust adjustment		electronic	transformer		transformer	
ODS – obstacle detection It stops or reverses the operation in case of obstacle detection	/	/	/	/	/	
Speed adjustment It enables best wing-speed adjustment	/			/ (2 levels when opening)		
Brake/Slow down effect It enables best wing proximity speed	/			/		
Operation time adjustment		/	/		/	
Opening control	/ (with dip-switch)	/ (with dip-switch)	/ (with dip-switch)	/ (with dip-switch)	/	/
Partial opening control	/	/ (only with radio)	/	/	/	/
Closing control	/	/	/	/	/	/
Timed automatic closing	/	/	/	/	/	/
Step-by-step control	/	/	/	/	/	/
Hold-to-run control	/	/	/	/	/	/
Stop safety	/	/	/	/	/	/
Reverse safety	/	/	/	/	/	/
NIO-antifreeze function It enables best motor efficiency even at very low temperatures	/			/	/	
Operation temperature	-20°C/+55°C	-20°C/+55°C	-20°C/+55°C	-20°C/+55°C	-20°C/+55°C	-20°C/+55°C
Protection degree	IP 24D	IP 55	IP 55	IP 24D	IP 55	IP 55

Accessories

DITEC wide range of accessories offers access systems with several operation and control alternatives.

Bix radio remote controls
With individual code, that can not be copied, stored in the EEPROM, 16-million code combinations, rolling code technology.
Approved and in compliance with directives.

Regulations

Use only DITEC accessories and safety devices for automation system installation.

DITEC actuators are CE-marked.
They are designed and built in compliance with the safety requirements defined in the Machinery Directive (98/37/EC), Electromagnetic Compatibility Directive (89/336/EEC) and Low-Voltage Directive (73/23/EEC). DITEC S.p.A. reserves the right to make any changes whatsoever in order to upgrade its products.

Ditec products are constantly improved.
As a consequence, technical data as listed in this leaflet are not to be considered binding. Further information can be found in our technical manuals, available on the website **www.ditec.it**

Bix S - radio remote control support
Its sophisticated design makes it the right complement anywhere: on your car dashboard, in your garage or in your house. The radio remote control can be easily placed into its support and is always available there for you to use.

Xel 2 infrared photocell
It allows actuators to operate at the highest safety levels.
Suitable for post or surface mounting.
Modulated infrared beam.

Xel 5 key selector
High security, vandal-proof device.
Suitable for post or surface mounting.

SOF rubber safety edges
They guarantee the highest safety conditions during opening and closing operations in any entrance system.

Lan 4 digital selectors
Vandal-proof digital keypad with secret code up to 8 figures.

Lamp flashing light
Attractive and elegant design.
Available also with surface-mounting support and built-in antenna.

Teo L wireless digital keypad
4-channel programmable radio remote control. It provides radio opening of automatic entrances by means of a code.
Suitable for surface mounting.

Lan 7 proximity access control
Identification system using transponder technology.
Non-contact control detection.

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ISO 9001
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