



# Cross

Automations  
for sliding gates



## ▶ 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 <b>Cross 3E</b>
Weight up to 400 kg <b>Cross 5E</b>
Weight up to 600 kg <b>Cross 7E - 7EH</b>
Weight up to 800 Kg <b>Cross 8E</b>
Weight up to 1400 kg <b>Cross 14 - 14E - 14VE</b>
Weight up to 1500 kg <b>Cross 15V</b>
Weight up to 3000 kg <b>Cross 30 - 30E</b>

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



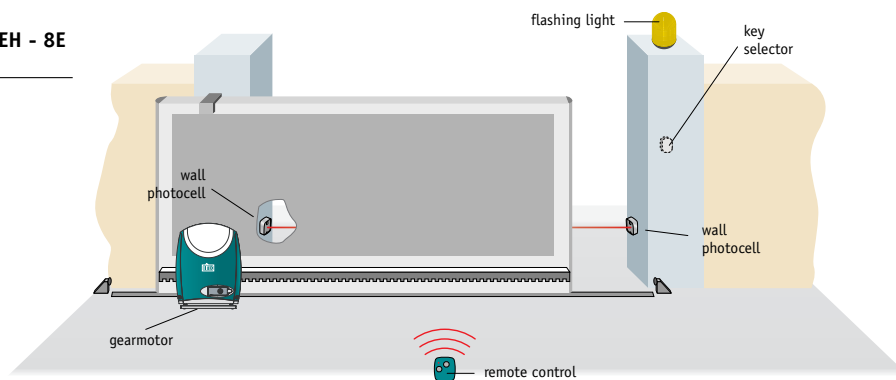
## Cross 30 - 30E



	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)

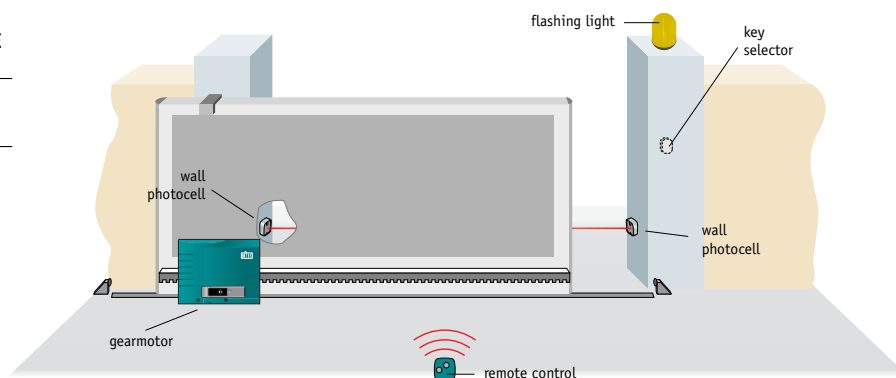
## Example of installation

**Cross 3E - 5E - 7E - 7EH - 8E**  
230V - 3 x 1,5 mm<sup>2</sup>

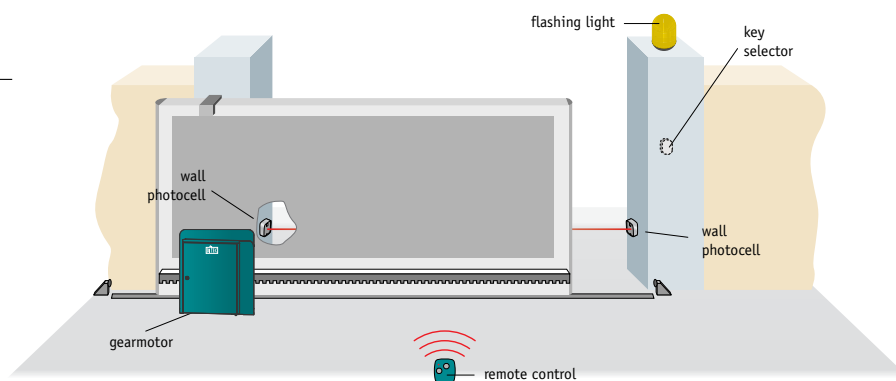


**Cross 14 - 14E - 14VE**  
230V - 3 x 1,5 mm<sup>2</sup>

**Cross 15V**  
400V - 4 x 1,5 mm<sup>2</sup>



**Cross 30 - 30E**  
400V - 4 x 1,5 mm<sup>2</sup>



## 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
<b>Description: Control panel</b>	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)
<b>Power supply</b>	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
<b>Battery back-up</b> It provides power supply in the event of power failure	 (optional)			 (optional)		
<b>Motor power supply</b>	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
<b>Accessory power supply</b>	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
<b>Electric lock</b>					24 V DC / 1.2 A	
<b>Flashing light</b> 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
<b>Open gate signal</b> It signals the gate is not completely closed	analogue	by limit-switch	by limit-switch	analogue	by limit-switch and analogue	by limit-switch
<b>Courtesy light</b>						
<b>Provision for limit switches</b>						
<b>Encoder</b> 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						
<b>Thrust adjustment</b>		electronic	transformer		transformer	
<b>ODS – obstacle detection</b> It stops or reverses the operation in case of obstacle detection						
<b>Speed adjustment</b> It enables best wing-speed adjustment				 (2 levels when opening)		
<b>Brake/Slow down effect</b> It enables best wing proximity speed						
<b>Operation time adjustment</b>						
<b>Opening control</b>	 (with dip-switch)	 (with dip-switch)	 (with dip-switch)	 (with dip-switch)		
<b>Partial opening control</b>		 (only with radio)				
<b>Closing control</b>						
<b>Timed automatic closing</b>						
<b>Step-by-step control</b>						
<b>Hold-to-run control</b>						
<b>Stop safety</b>						
<b>Reverse safety</b>						
<b>NIO-antifreeze function</b> It enables best motor efficiency even at very low temperatures						
<b>Operation temperature</b>	-20°C/+55°C	-20°C/+55°C	-20°C/+55°C	-20°C/+55°C	-20°C/+55°C	-20°C/+55°C
<b>Protection degree</b>	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](http://www.ditec.it)



**DITEC S.p.A.**

Via Mons. Banfi, 3 - 21042 Caronno Pertusella (VA) - ITALY  
Tel. +39 02 963911 - Fax +39 02 9650314  
[www.ditec.it](http://www.ditec.it) - [ditec@ditecva.com](mailto:ditec@ditecva.com)

**DITEC BELGIUM**  
**DITEC DEUTSCHLAND**  
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**DITEC AMERICA**

LOKEREN  
OBERURSEL  
PALAISEAU  
BALERNA  
ORLANDO-FLORIDA-USA

Tel. +32 9 3560051  
Tel. +49 6171914150  
Tel. +33 1 64532860  
Tel. +41 91 6463339  
Tel. +1 407 8880699

Fax +32 9 3560052  
Fax +49 61719141555  
Fax +33 1 64532861  
Fax +41 91 6466127  
Fax +1 407 8882237

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- ▶ **Bix 5 - 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.



ISO 9001  
Cert. n° 0957/1