



# Automation for gates and automatic barriers

EN

# PERFORMING



Sliding gates require flexible automation capable of managing different frame dimensions, different types of duty and different environmental conditions, always ensuring maximum operational safety, functioning and reliability.

The **Ditec Cross** line meets all the different private, commercial and industrial needs.

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.

# 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.

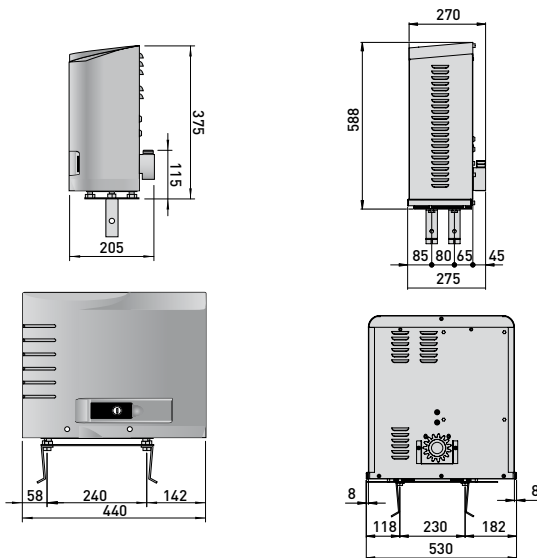


Ditec Cross 30

## Dimensions

Cross 18 - Cross 19

Cross 30



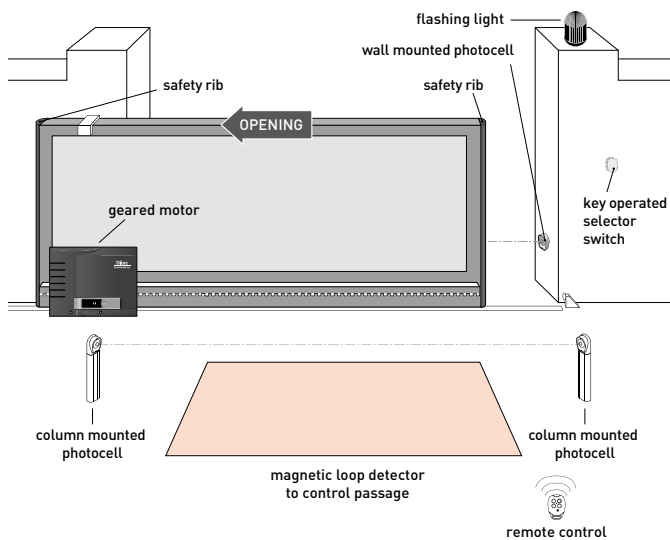
## Specific accessories

Description	Cross 3E	Cross 5EH	Cross 7EH	Cross 7E	Cross 8E	Cross 18	Cross 19	Cross 30E
Battery backup in case of power failure	Bat K3	Bat K7	Bat K7					
Lighting kit	Lux K3E	Lux K7	Lux K7	Lux K7	Lux K7			
Nylon rack	Cross CRP Cross CRN2	Cross CRN2	Cross CRN2					
Galvanized steel rack	Cross CRI	Cross CRI	Cross CRI	Cross CRI	Cross CRI	Cross CRI	Cross CRI	Cross CR6
Chain traction kit	Cross 3TC	Cross 7EHTC	Cross 7EHTC					
Fastening plate	Sup CS	Sup CS	Sup CS	Sup CS	Sup CS			
Magnetic limit-switch kit		FCMCR	FCMCR	FCMCR	FCMCR			

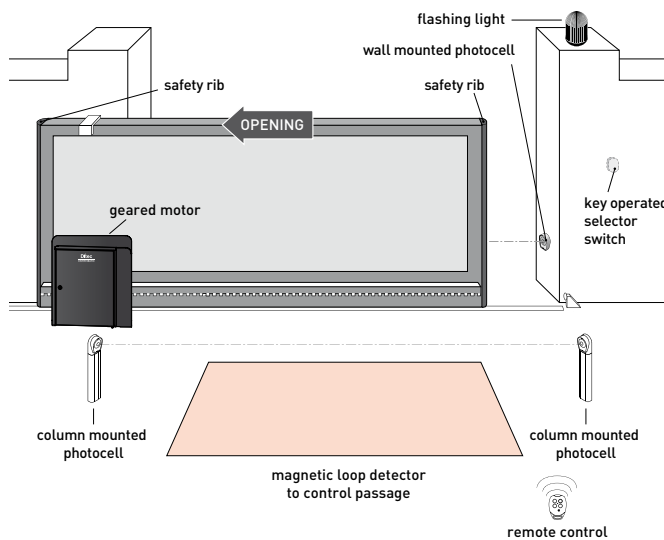
# Example of installation and technical specifications

## Example installations

Cross 18 - Cross 19



Cross 30




## Technical specifications

Description	Cross 18	Cross 18E	Cross 18VE	Cross 19V	Cross 30E
Electromechanical actuator	for sliding gates up to 1800 kg	for sliding gates up to 1800 kg	for sliding gates up to 1800 kg	for sliding gates up to 1800 kg	for sliding gates up to 3000 kg
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

## System functions

	Cross 3E Cross 5EH Cross 7EH	Cross 7E - 8E Cross 18 - 18E	Cross 18 -18VE	Cross 19V Cross30E
<b>Description</b>	EL31R	E1A	LOGICM	E1T
<b>Control panel</b>	for 1 24 V DC motor with built-in radio	for 1 230 V AC motor with built-in radio	for 1 or 2 230 V AC motors	for 1 three-phase 400 V AC motor
<b>Mains power supply</b>	230 V AC / 50-60 Hz	230 V AC / 50-60 Hz	230 V AC / 50-60 Hz	230 V AC / 50-60 Hz
<b>Batteries</b>	■ (optional)			
<b>Energy saving</b> 	reduced consumption when in use			
<b>Number of motors</b>	1	1	1	1
<b>Motor power supply</b>	24 V DC / 14 A	230 V AC / 5 A	230 V AC / 1 x 5 A 230 V AC / 2 x 2.5 A	400 V AC / 6 A
<b>Accessories power supply</b>	24 V DC / 0.3 A	24 V DC / 0.5 A	24 V DC / 0.5 A	24 V DC / 0.5 A
<b>Flashing light</b>	24 V	230 V	230 V and 24 V	24 V
<b>Gate open warning light</b>	from limit switch and analogue	from limit switch	from limit switch and analogue	from limit switch
<b>Courtesy light</b>	■	■	■ (only with 1 motor)	
<b>Limit switch provision</b>	■	■	■	■
<b>Encoder (to control speed and deceleration)</b>	■			
<b>Force adjustment control setting</b>	automatic	transformer	transformer	
<b>ODS - Obstruction Detection System</b>	■	■	■	
<b>Speed adjustment</b>	■			
<b>Braking / slowdown</b>	■			
<b>Operation time adjustment</b>		■	■	
<b>Open control</b>	■ (with dip-switch)	■ (with dip-switch)	■	■ (with dip-switch)
<b>Partial opening control</b>	■	■ (with radio only)	■	■
<b>Close control</b>	■	■	■	■
<b>Temporised automatic closing</b>	■	■	■	■
<b>Inching control</b>	■	■	■	■
<b>Hold-to-run control</b>	■	■	■	■
<b>Stop safety device</b>	■	■	■	■
<b>Reverse operation safety device</b>	■	■	■	■
<b>Safety Test Facility (for SOF self-testing safety devices)</b>	■	■	■	■
<b>Soft Start</b>	■			
<b>NIO - Antifreeze system (for maintaining motor efficiency even at very low temperatures)</b>	■	■	■	
<b>Operating temperature</b>	-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