



Ditec FACIL is an articulated-arm automation system for gates with wing up to 2.3 m or weighing up to 300 kg, suitable for medium and large sized pillars that may even be out-of-plumb.

Safe: The 24 Volt DC motor with a virtual encoder allows for constant adjustment of the force of impact and immediate detection of obstructions.

Easy to install: it can be installed in just two steps thanks to the motor's brackets that can be attached very quickly without any welding.

Versatile: the manual key-operated release system is located at the front and is easily accessible. Ready for optional remote release system and optional batteries. Version with an integrated control panel (FACIL 3EH).

SAFE



EASY TO
INSTALL



VERSATILE



Product range

For wing up to 2.3 m

Ditec FACIL 3H - Ditec FACIL 3EH

Technical specifications

Description	FACIL 3EH	FACIL 3H
Electromechanical actuator	irreversible for up to 2.3 m wide wing	irreversible for up to 2.3 m wide wing
Stroke control	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
Service index	3 - frequent	3 - frequent
Intermittent operation	S2 = 30 min S3 = 50%	S2 = 30 min S3 = 50%
Power absorption	24 V DC	24 V DC
Power input	6 A	6 A
Torque	200 Nm	200 Nm
Opening time	10÷55 s/90°	10÷55 s/90°
Actuator maximum opening	110°	110°
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	IP 54	IP 54
Product dimensions (mm)	188x285x332	188x285x332
Control panel	LCU30H (built-in)	LCU30H - LCU30HJ* LCU40H - LCU40HJ*

*J version 120 V AC power supply

	FACIL 3H, FACIL 3EH	FACIL 3H
TECHNICAL FEATURES		
Control panel	LCU30H for 1 or 2 24 V DC motors with built-in radio	LCU40H for 1 or 2 24 V DC motors with built-in radio
Radio frequency	433.92 MHz standard 868.35 MHz with ZENPRS or with BIXPR2	433.92 MHz standard 868.35 MHz with ZENPRS or with BIXPR2
433MHz/868MHz interchangeable receiver module	■	■
Mains power supply	230 V AC or 120 V AC - 50/60 Hz	230 V AC or 120 V AC - 50/60 Hz
Motor power supply	24 V DC / 2 x 6 A	24 V DC / 2 x 12 A
Accessories power supply	24 V DC / 0.3 A [0.5 A max.]	24 V DC / 0.5 A
Stroke control	virtual encoder	virtual encoder
Limit switch provision	■	■
Energy saving		<1 W on standby
Operating temperature	-20°C / + 55°C in standard conditions / -35°C / +55°C with NIO enabled	-20°C / + 55°C in standard conditions / -35°C / +55°C with NIO enabled
Control panel protection level	IP55	IP55
Control panel dimensions (mm)	187x261x105	238x357x120
INPUTS		
Opening 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 control	■ via radio or shared with partial opening control, which can be selected from the display	■
Step-by-step control	■	■
Hold-to-run control	■ selected via display	■
Automatic closing contact management	shared with partial opening control, selected via display	■
OUTPUTS		
Flashing light	24 V DC	24 V DC
Electrically operated lock	12 V DC / 15 W	12 V DC / 15 W
Gate-open warning light (ON/OFF)	■ shared with electrically operated lock or flashing light	■
Gate-open warning light with proportional blink rate	■ shared with electrically operated lock or flashing light	■
Courtesy light	■ shared with electrically operated lock or flashing light	■ shared with electrically operated lock or flashing light
PROGRAMMABLE FUNCTIONS		
Configuration of programmable functions	display and navigation keys	display and navigation keys
Force adjustment	electronic	electronic
Speed	adjustable	adjustable
Soft Start/Soft Stop	adjustable	adjustable
Braking/Slowing down	adjustable	adjustable
Stop approach	adjustable	adjustable
Operation time	adjustable	adjustable
Automatic re-closing time	adjustable	adjustable
Integrated datalogging (counters and recent alarm history)	■ can be viewed on display	■ can be viewed on 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 Amigo SW
FW update	■ using Amigo SW and USBPROG	■ using MicroSD
SAFETY AND PROTECTION FUNCTIONS		
Emergency stop	■	■
Safe closing (inversion)	■	■
Safety Test Facility (for automatic safety devices)	■	■
ODS - Obstacle Detection System (causes the gate to stop or to reverse movement when an obstacle is detected)	■	■
NIO - Antifreeze system	■	■
OPTIONAL ACCESSORIES		
Batteries	■ with SBU	■ with SBU
Possibility of integrated batteries in the control panel		■
Stand-alone solar-powered installation	■ with SBU	■ with SBU
Hybrid solar-powered installation		■ with SBU
8.2 KΩ-resistance safety edge	■ with accessory	■ with accessory
Magnetic loop detector	■ with LAB9	■ with LAB9

Ditec FACIL

Automation for swing gates up to 2.3 - 5 m wide wing



Ditec FACIL is available in two irreversible versions: one with a built-in control unit and one without a control unit.

The **ABS casing** offers a greater resistance to atmospheric agents.

The shape of the articulated arm and the way it is attached to the casing have been designed to avoid any shearing problems.

The automation system is fitted with **adjustable open-close mechanical stops**.

Irreversible electromechanical actuators for up to 2.3 m wing

Article Code	Description of Article
NAFACIL3H	Irreversible electromechanical actuator, for intensive use, 24 V DC motor, for up to 2.3 m wing
NAFACIL3EH	Irreversible electromechanical actuator for intensive use, 24 V DC motor, for wings up to 2.3 m, complete with control panel and 433 MHz radio

DO IT - Set for double swing gate up to 2.3 m + 2.3 m

Content: 1 FACIL3EH actuator with built-in control panel and radio receiver + 1 FACIL3H actuator + 2 rolling code remote control 2-Ch (1xZEN2 + 1xZEN2W) + 1 pair of LIN2 photocells + 1 FL24 flashing light complete with aerial and 5 m long coaxial cable + E109B warning panel

Article Code	Description of Article
NADOITFCL	Complete set for 24 V DC with a 433 MHz radio

Simplified DO IT - Set for double swing gate up to 2.3 m + 2.3 m

Content: 1 FACIL 3EH actuator with built in control panel and radio receiver + 1 FACIL3H actuator + 2 rolling code remote control 2Ch (1xZEN2 + 1xZEN2W) + 1 pair of LIN2 photocells + 1 E109B warning panel

Article Code	Description of Article
NADOITFCLS	Set 24 V DC with 433 MHz radio

Electronic panels

Article Code	Description of Article
NALCU30H-NALCU30HJ*	For one or two 24 V DC / 2 x 6 A max motors with a 433 MHz radio
NALCU40H-NALCU40HJ*	For one or two 24 V DC / 2 x 12 A max motors with a 433 MHz radio

*J version for 120 V AC power supply

Specific accessories

Article Code	Description of Article
NAFACILBD	Straight arm
NABOXFC1	Limit switch unit
NADEB04	Key-operated handle with 5 m long cord, for remote release system



FACILBD

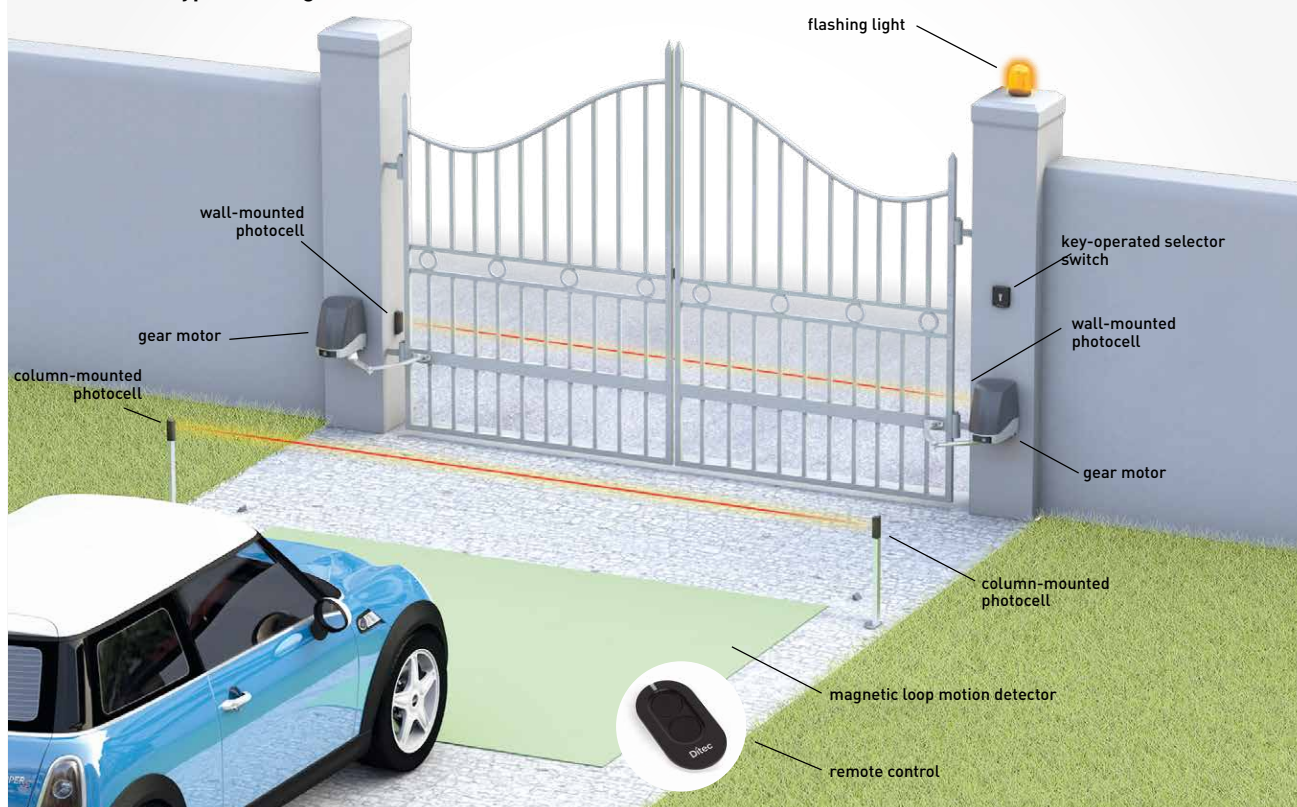


BOXFC1



DEB04

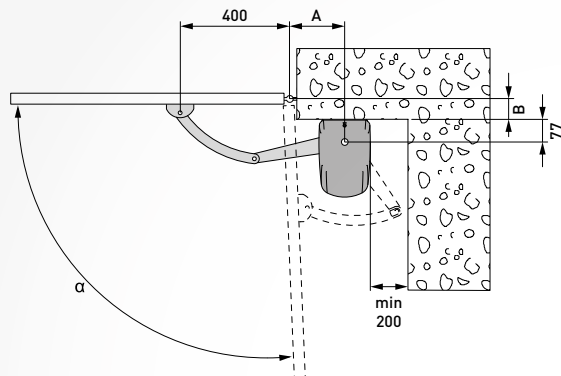
Ditec FACIL - Typical configuration



The automation system can be completed with Ditec command, control and safety devices.

■ radio controls > page 86 ■ switches > page 92 ■ photocells > page 98 ■ flashing lights > page 100 ■ safety edges > page 101

Installation measurements



		A (mm)								
B (mm)	0	90°	90°	95°	95°	100°	100°	105°	105°	110°
	50	90°	90°	95°	95°	95°	95°	95°	95°	95°
	100	90°	90°	90°	90°	90°	90°	90°	90°	/
	150	90°	90°	90°	90°	90°	90°	90°	/	/
	200	90°	90°	90°	90°	90°	/	/	/	/

Dimensions



Operation Limits

