



24V
VIRTUAL
ENCODER

SAFE



EASY TO
INSTALL



VERSATILE

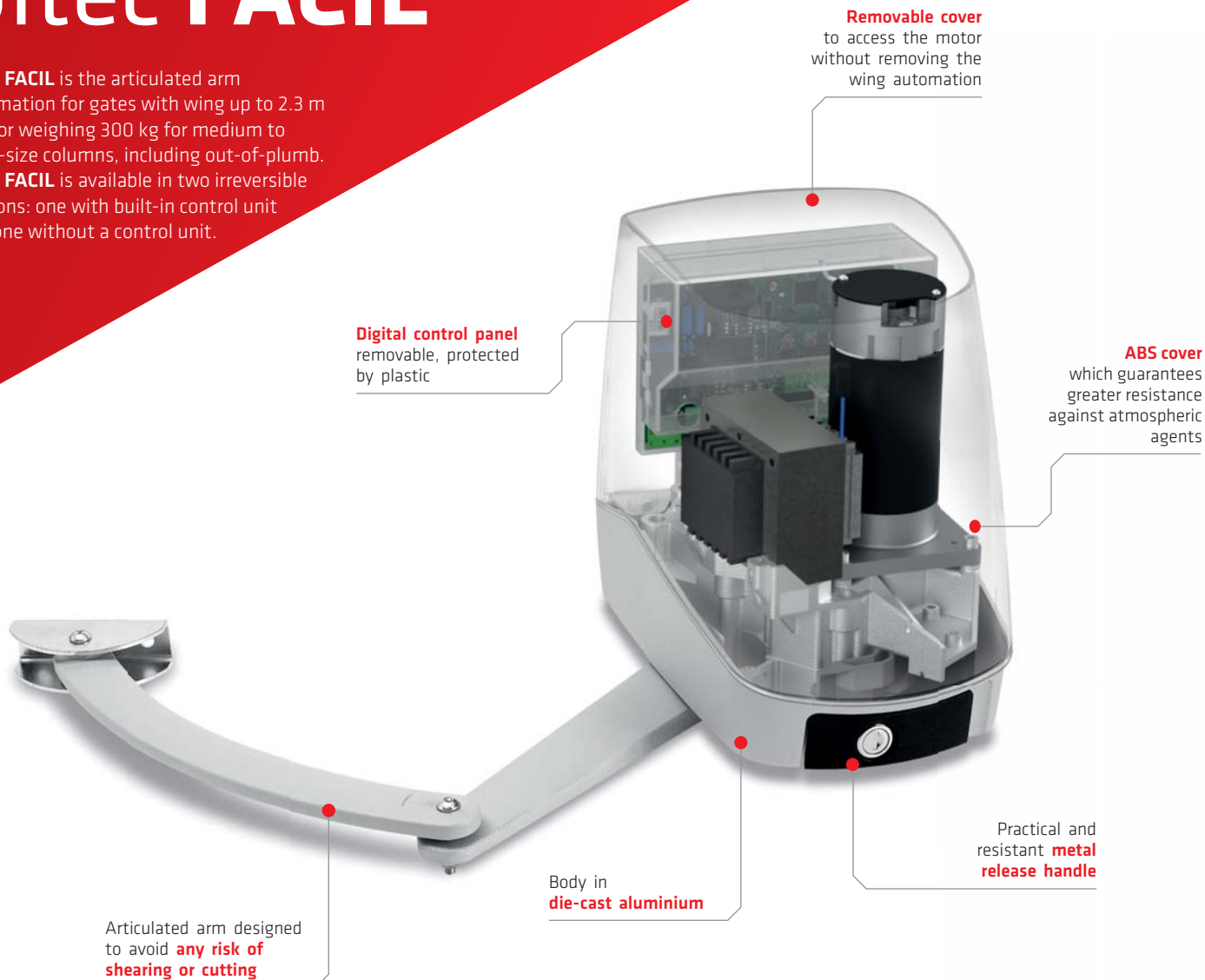
Automation
with arm for
swing gates with
up to 2,3 m wide
wing

Dítec **FACIL**

Ditec FACIL

Ditec FACIL is the articulated arm automation for gates with wing up to 2.3 m long or weighing 300 kg for medium to large-size columns, including out-of-plumb.

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



Ditec **FACIL** KIT



24 Vdc MOTOR KIT

Discover the advanced functions available when using Ditec FACIL automation systems and control panels together with Ditec safety and control accessories:

- **LIN2 photocells**
- **Ditec ZEN remote controls**
- in the complete version of the kit, **24 Vdc Ditec FL24 flashing light**. White, blue, green, yellow and orange signal light

FULL COMPLIANCE WITH EUROPEAN DIRECTIVES AND STANDARDS

- **2014/30/EU - EMCD** - Electromagnetic compatibility directive
- **2014/53/EU - RED** - Radio equipment directive
- **2006/42/CE - Machinery Directive** - (Annex II-B; Annex II-A; Annex I-Chapter 1)

For more information, consult the control panels compliant with the standards and directives (ref. LCU30H and LCU40H)





EASY TO INSTALL

Installation in just two steps thanks to the fixing brackets with rapid attachment of the motor, with no need for welding.



VERSATILE

Manual release system using a key and in an easily accessible frontal position. Set-up for remote release. Version with built-in control panel (FACIL3EH) or without control panel (FACIL3H).



SAFE

The 24 Vdc virtual encoder motor ensures constant adjustment of the impact forces and immediate obstacle detection.

SPECIFIC ACCESSORIES



- ▶ **Energy controllers**
to handle batteries
and the production of solar energy,
complete with assembly brackets



- ▶ Key-operated handle with 5 m long cord,
for remote-operated release system



- ▶ Mechanical stop unit



- ▶ Straight arm



- ▶ **Batteries**
complete with installation BOX
 - ▶ 2 x 2 Ah battery + small IP55 box
 - ▶ 2 x 6.5 Ah battery + large IP55 box

Example of installation

Find out more about the whole range of Ditec products at www.ditecautomations.com

Wall-mounted photocells

Automation

Column-mounted photocell

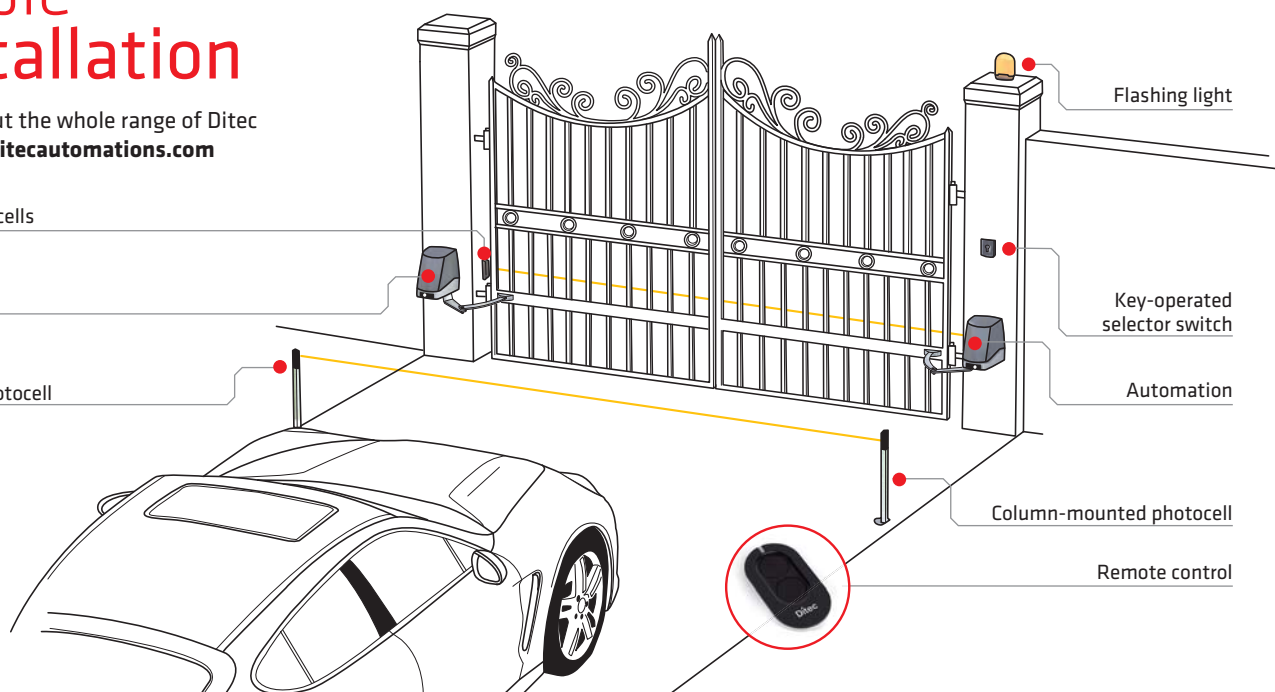
Flashing light

Key-operated selector switch

Automation

Column-mounted photocell

Remote control





TECHNICAL SPECIFICATIONS

DESCRIPTION	FACIL 3EH	FACIL 3H
Description	FACIL 3EH	FACIL 3H
Electromechanical actuator	irreversible for wing up to 2.3 m	irreversible for wing up to 2.3 m
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 supply	24 Vdc	24 Vdc
Power absorption	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 rating	IP 54	IP 54
Product dimensions (mm)	188x285x332	188x285x332
Control panel	LCU30H (incorporated)	LCU30H - LCU40H

MAIN FUNCTIONS OF THE SYSTEM

DESCRIPTION	FACIL3EH - FACIL3H	FACIL3H
Control panel	Integrated into the automation with built-in radio (FACIL3EH) LCU30H for 1 or 2 24 Vdc motors with built-in radio (FACIL3H)	LCU40H for 1 or 2 24 Vdc motors with built-in radio
Radio frequency	433.92 MHz in standard configuration 868.35 MHz with ZENPRS or with BIXPR2	433.92 MHz in standard configuration 868.35 MHz with ZENPRS or with BIXPR2
Interchangeable receiver module	■	■
433 MHz/868 MHz		
Mains power supply	230 Vac - 50/60 Hz	230 Vac - 50/60 Hz
Motor power supply	24 Vdc - 2 x 6 A	24 Vdc - 2 x 12 A
Accessories power supply	24 Vdc - 0.3 A (0.5 A peak)	24 Vdc - 0.5 A
Stroke control	virtual encoder	virtual encoder
Limit switch provision	■	■
Energy saving		<1 W on standby
Operating temperature	-20°C ÷ +55°C under standard conditions -35°C ÷ +55°C with NIO enabled	-20°C ÷ +55°C under standard conditions -35°C ÷ +55°C with NIO enabled
Open control	shared with inching control, selected via display	■
Partial opening control	■	■
Close control	shared with emergency stop, which can be selected from the display	■
Stop command	■ via radio or shared with partial opening control, which can be selected from the display	■
Step-by-step control	■	■
Hold-to-run control	■ selectable from the display	■
Automatic closing contact management	shared with partial opening control, selected from the display	■
Flashing light	24 Vdc	24 Vdc
Electromechanical locking device	12 Vdc/15 W	12 Vdc/15 W
Gate open warning light (ON/OFF)	■ shared with electromechanical locking device or flashing light	■
Gate-open warning light with proportional flashing	■ shared with electromechanical locking device or flashing light	■
Courtesy light	■ shared with electromechanical locking device or flashing light	■ shared with electromechanical locking device or flashing light
Configuration of programmable functions	display and navigation keys	display and navigation keys
Force adjustment	electronic	electronic
Speed	adjustable	adjustable
Acceleration/deceleration ramp (Soft Start / Soft Stop)	adjustable	adjustable
Braking/deceleration	adjustable	adjustable
End stop approach distance	adjustable	adjustable
Operation time	adjustable	adjustable
Automatic closing time	adjustable	adjustable
Integrated datalogging (counters and recent alarm log)	■ Viewable on display	■ can be viewed on the 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 with Amigo SW
FW update	■ With Amigo and USBPROG software	■ using Micro SD or using Amigo SW and USBPROG
Safety stop (emergency stop)	■	■
Safe closing (reverse)	■	■
Safety test function (for self-testing safety devices)	■	■
ODS - Obstruction Detection System (stops current movement or reverses movement if an obstacle is detected)	■	■
NIO - Antifreeze system	■	■
Battery-operated	■ with SBU	■ with SBU
Set-up for control-panel integrated batteries		■
Stand-alone solar-powered installation		■ with SBU*
Hybrid solar-powered installation		■ with SBU
Safety edge with 8.2kN resistance	■ with accessory GOPAV or SOF	■ with accessory GOPAV or SOF
Magnetic loop detector	■ with LAB9	■ with LAB9