











Automation system for swing gates with wings up to **5 m**

Ditec **PWR**

Ditec PWR a complete range

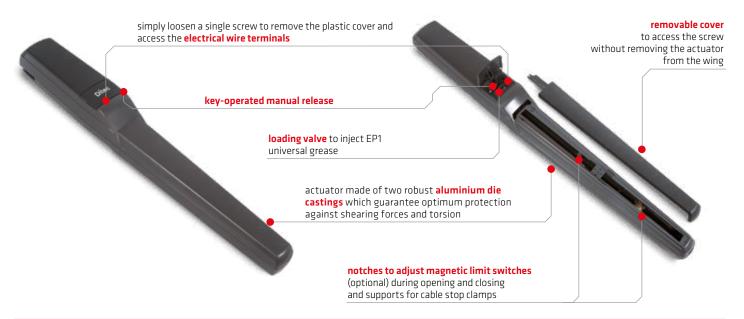
Ditec PWR is the range of automations for swing gates in residential, condominium and industrial applications. All the motors are designed and developed to ensure quality and strength, while making installation and maintenance easy. A complete series made up of: a motor for wings up to 2.5 m (Ditec PWR 25), a motor for wings up to 3.5 m (Ditec PWR 35) and four motors for wings up to 5 m (Ditec PWR 50 series), three at 24 Vdc and one at 230 Vac.

Ditec PWR 25

For wings up to 2.5 m

Ditec PWR 35

For wings up to 3.5 m



SIMPLIFIED

installation

- automation system includes asymmetric mechanical opening and closing stops, for precise stop adjustment
- one-handed installation: the hexagonal bolt mark avoids the usage of a second tool and makes the fixing of the actuator on the column easier
- pre-drilled brackets for fast installation, with robust bushings for a better distribution of the forces on the front connection pin

THE RIGHT AUTOMATION SYSTEM

for all applications

- set-up for remote manual release, useful when the automation system cannot be reached during an emergency (e.g. Automation system on single full wing, stuck opening against the wall)
- set up for magnetic limit switch (only on PWR35H) for accurate speed adjustment during opening and closing
- ideal solution for applications requiring fast opening and closing: 10 s at 90° for Ditec PWR 25 and 14 s at 90° for Ditec PWR 35







FULL COMPLIANCE WITH EUROPEAN DIRECTIVES AND STANDARDS _

- ✓ 2014/30/EU EMCD Electromagnetic Compatibility Directive
- ✓ 2014/53/EU RED Radio Equipment Directive
- 2006/42/EC Machines Directive (Annex II-B; Annex II-A; Annex I-Chapter 1)

N.B.: TÜV certified with LCU40H





Ditec PWR a synonym of safety

Ditec PWR 50

For wings up to 5 m













A long lasting automation system in every weather condition: aluminium die castings, durable fixing brackets and plates designed to overcome the torsion and shearing forces whilst in operation. And that's not all! Screws with a cataphoresis treatment

for rust protection as well as plastic **screw protection** (PWR25H and PWR35H) or dustproof brushes (PWR50H-HV-HR). Additionally, the PWR range has successfully passed the corrosion resistance (ISO 9227) and UV ray damage resistance (ISO 489-2) tests.

Simple adjustment,

fast installation

- precise adjustment of mechanical limit stops directly on the screw (PWR50H, PWR50HR and PWR50AC). Magnetic limit switches already assembled and wired (PWR50HV)
- slotted mounting plate to quickly and easily weld the bracket



An automation system with countless advantages



YOUR TIME IS WORTH, don't waste it!

We know how precious your time is! That's why we've patented two features that help to make the installation and maintenance operations even faster.

INSTALLATION MOUNTING TOOL

Reduces the time needed to install PWR motors by 60%! The installation mounting tool includes a spirit level to perfectly calibrate heights in a single step, without the need for additional measurements.





GREASE INJECTION VALVE

Thanks to the protected loading valve inside the manual release area, universal lubricant (type EP1) can be added simply using a manual lubricator, without disassembling the actuator.



PROTECTIVE TREATMENT OF CATAPHORESIS

Endless screws with **protective cataphoresis treatment** to ensure a longer life cycle and less maintenance

- maximum resistance to atmospheric agents
- maximum resistance to corrosion and oxidation (rust)
- treatment used in the automotive industry to ensure high standards over time





Screws with cataphoresis

The KITs that make the difference

Discover the advanced functions available when using Ditec PWR and Ditec LCU control panels together with Ditec control and security accessories:

- Ditec LIN2 compact photocells adjustable beam direction
- ✓ Ditec ZEN remote controls with rolling code or AES-128 Encrypted protocol, with literally billions of billions of possible combinations to make cloning impossible
- 24 Vdc Ditec FLM flashing light with a choice of white, blue, green, yellow or orange signal light colours (only included in complete kit versions)

SPECIFIC ACCESSORIES



- Installation mounting tool for fast installation of the actuators
- Magnetic limit switches
 - ✓ for PWR35H
 - ✓ for PWR50H and PWR50HR



 Limit switch in opening and closing for PWR50AC motor



Internal mechanical limit stop for PWR50 series



Remote manual release for PWR25H and PWR35H



24 V SAFE

The 24 Vdc virtual-encoder technology enables constant electronic control of the impact forces and immediate obstacle detection, ensuring that the operating device stops or motion is reversed (if configured) when obstacles are detected. If this is not enough, you can add magnetic limit switches (optional on PWR 35, standard on PWR 50). Additionally, in the event of a power outage, the electronic control panel activates the batteries avoiding the interruption of the operation.

EASY TO INSTALL

Simple and fast installation procedure, thanks to the special design: **installation level** for fast installation, pre-drilled **fixing plates** and **mechanical stops** for adjustment only, are just some of the features available in the PWR range.

COMPLETE RANGE

Choose Ditec PWR based on your needs!

Irreversible or reversible version.

By wing length:

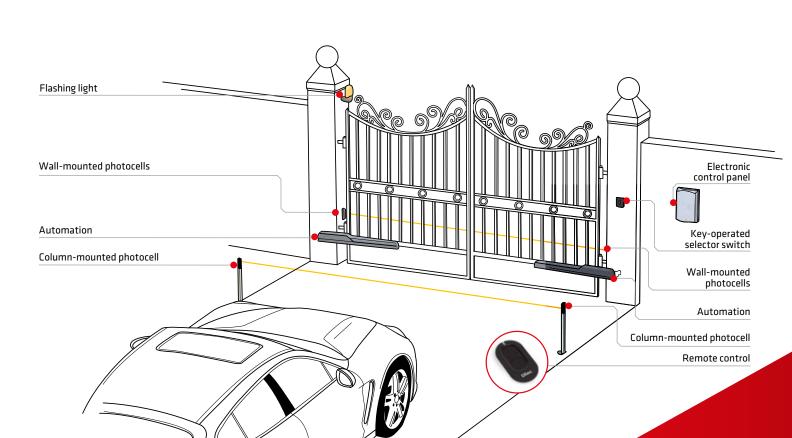
version for wings up to 2.5 m (PWR 25), for wings up to 3.5 m (PWR 35) and for wings up to 5 m (PWR 50)

By number of cycles:

version for frequent use (PWR 25), intensive use (PWR 35) and very intensive use (PWR 50)

Discover the entire range of Ditec brand products at **www.ditecautomations.com**

Example of installation



Ditec LCU

maximum performance for 24 Vdc motors

- ✓ self-learning procedure made easier by the display and navigation buttons, the automation system can be configured in a few steps
- complete adjustment of speed, acceleration and start time
- plastic protection covers the electronic board
- ✓ Green Mode guarantees energy savings when in standby
- diagnostics with data-logging and data analysis software

These are just a few of the functions available with the ${\bf LCU30H}$ and ${\bf LCU40H}$ control units





TECHNICAL FEATURES

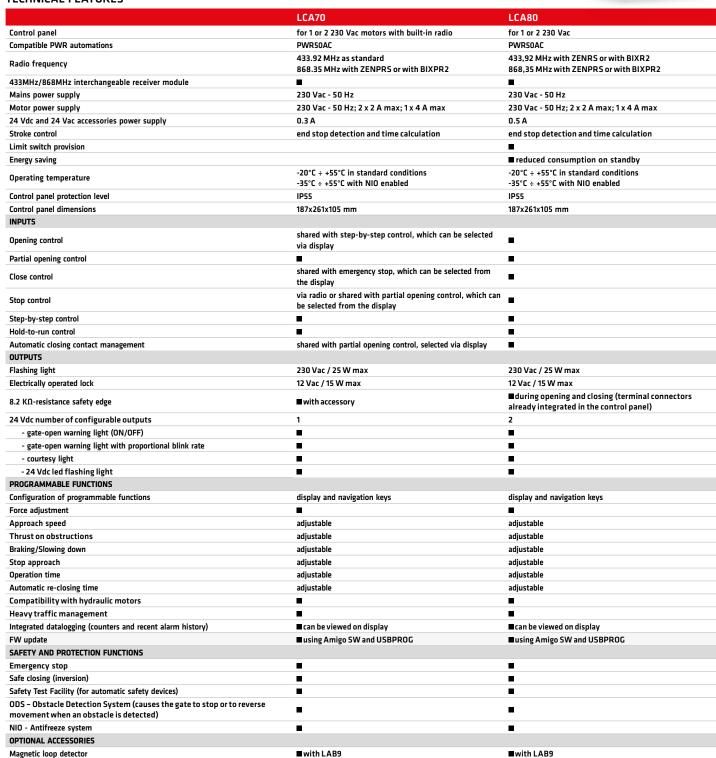
	LCU30H - LCU30HJ	LCU40H - LCU40HJ
Cantral annal	<u> </u>	<u> </u>
Control panel	for 1 or 2 24 Vdc motors with built-in radio	for 1 or 2 24 Vdc motors with built-in radio
Compatible PWR automations	PWR25H - 35H	PWR25H - 35H - 50H - 50HV - 50HR
Radio frequency	433.92 MHz as standard 868.35 MHz with ZENPRS or with BIXPR2	433.92 MHz as standard 868.35 MHz with ZENPRS or with BIXPR2
433MHz/868MHz interchangeable receiver module		
Mains power supply	230 Vac or 120 Vac - 50/60 Hz	230 Vac or 120 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 max.)	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 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	187x261x105 mm	238x357x120 mm
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 Vdc	24 Vdc
Electrically operated lock	12 Vdc / 15 W	12 Vdc / 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	3 - 5	
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
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Integrated datalogging (counters and recent alarm history) Extended datalogging with micro SD (in-denth records for every event)	■ can be viewed on display	acan 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 with Amigo SW
Extended datalogging with micro SD (in-depth records for every event) FW update	■ can be viewed on display ■ using Amigo SW and USBPROG	
Extended datalogging with micro SD (in-depth records for every event) FW update SAFETY AND PROTECTION FUNCTIONS	■ using Amigo SW and USBPROG	■ can be viewed on a PC with Amigo SW ■ using MicroSD or using Amigo SW and USBPROG
Extended datalogging with micro SD (in-depth records for every event) FW update SAFETY AND PROTECTION FUNCTIONS Emergency stop	■ using Amigo SW and USBPROG	■ can be viewed on a PC with Amigo SW
Extended datalogging with micro SD (in-depth records for every event) FW update SAFETY AND PROTECTION FUNCTIONS Emergency stop Safe closing (inversion)	■ using Amigo SW and USBPROG ■	■ can be viewed on a PC with Amigo SW ■ using MicroSD or using Amigo SW and USBPROG ■
Extended datalogging with micro SD (in-depth records for every event) FW update SAFETY AND PROTECTION FUNCTIONS Emergency stop Safe closing (inversion) Safety Test Facility (for automatic safety devices)	■ using Amigo SW and USBPROG	■ can be viewed on a PC with Amigo SW ■ using MicroSD or using Amigo SW and USBPROG
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Extended datalogging with micro SD (in-depth records for every event) FW update 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	■ using Amigo SW and USBPROG ■ ■	■ can be viewed on a PC with Amigo SW ■ using MicroSD or using Amigo SW and USBPROG ■ ■ ■
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Extended datalogging with micro SD (in-depth records for every event) FW update 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 Possibility of integrated batteries in the control panel Stand-alone solar-powered installation	using Amigo SW and USBPROG	■ can be viewed on a PC with Amigo SW ■ using MicroSD or using Amigo SW and USBPROG ■ ■ ■ ■ with SBU ■ with SBU
Extended datalogging with micro SD (in-depth records for every event) FW update 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 Possibility of integrated batteries in the control panel Stand-alone solar-powered installation Hybrid solar-powered installation	■ using Amigo SW and USBPROG ■ ■ ■ ■ ■ ■ ■ ■ with SBU	■ can be viewed on a PC with Amigo SW ■ using MicroSD or using Amigo SW and USBPROG ■ ■ ■ ■ with SBU ■ with SBU ■ with SBU
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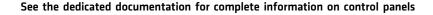
Ditec LCA

new universal control panels for 230 Vac motors

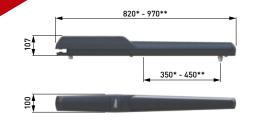
- menu with configuration wizard (Wizard WZ) to configure the control panel quickly and simply during initial setup: just choose the operating logic, the number of gate wings and whether or not to enable automatic closing, memorize the remote controls, and you're ready to go!
- pre-configured operating logics: automatic operation with or without deceleration, timer-controlled operation with or without deceleration, and timer-controlled operation with force limitation.
- more than 100 parameters, to fine-tune by using the easy-to-use menu, the display and the navigation buttons
- reduced consumption in standby: limitation of current absorbed by accessories in standby
- integrated diagnostics with counters and latest alarms log (shown on the control panel display)

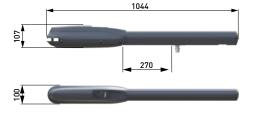
TECHNICAL FEATURES











*Ditec PWR25H - **Ditec PWR35H

Ditec PWR50H - Ditec PWR50HV Ditec PWR50HR - Ditec PWR50AC

TECHNICAL FEATURES

DESCRIPTION	PWR25H	PWR35H
Electromechanical actuator	irreversible for up to 2.5 m wide wing	irreversible for up to 3.5 m wide wing
Stroke control	mechanical stop	mechanical stop (magnetic limit switch optional)
Maximum capacity	400 kg x 1.5 m 200 kg x 2.5 m	600 kg x 1.75 m 250 kg x 3.5 m
Power absorption	24 Vdc	24 Vdc
Maximum power	5 A	5.5 A
Power input	55 W nom. / 120 W max	65 W nom. / 132 W max
Thrust	2000 N	3000 N
Opening time	10÷60 s / 90°	14÷80 s / 90°
Max travel	350 mm	450 mm
Actuator maximum opening	110°	110°
Intermittent operation	30 consecutive cycles at 20°C	50 consecutive cycles at 20°C
Service index	frequent tested up to 150,000 cycles	intensive tested up to 300,000 cycles
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	IP44	IP44
Weight (kg)	7.8	9
Control panel	LCU30H - LCU30HJ LCU40H - LCU40HJ*	LCU30H - LCU30HJ LCU40H - LCU40HJ*

^{*}J version for 120 Vac power supply

DESCRIPTION	PWR50H	PWR50HV	PWR50HR	PWR50AC
Electromechanical actuator	irreversible for up to 5 m wide wing	irreversible for up to 5 m wide wing	reversible for up to 5 m wide wing	non reversible / reversible for up to 5 m wide wing
Stroke control	mechanical stops (magnetic limit switch optional)	magnetic limit switch (mechanical stops optional)	mechanical stop (magnetic limit switch optional)	mechanical stop in opening (limit switch microswitch optional)
Maximum capacity	800 kg x 1.75 m 280 kg x 5 m	800 kg x 1.75 m 280 kg x 5 m	800 kg x 1.75 m 280 kg x 5 m	800 Kg x 1,75 m 280 Kg x 5 m
Power absorption	24 Vdc	24 Vdc	24 Vdc	230 Vac - 50 Hz
Maximum power	12 A	12 A	12 A	1,1 A
Power input	65 W nom. / 288 W max	65 W nom. / 288 W max	65 W nom. / 288 W max	250 W
Thrust	6000 N	6000 N	6000 N	6000 N
Opening time	14÷80 s / 90°	14÷80 s / 90°	14÷80 s / 90°	32 s / 90°
Max travel	500 mm	500 mm	500 mm	500 mm
Actuator maximum opening	120°	120°	120°	120°
Intermittent operation	60 consecutive cycles at 20°C	60 consecutive cycles at 20°C	60 consecutive cycles at 20°C	30 consecutive cycles at 20°C
Service index	very Intensive tested up to 450,000 cycles	very Intensive tested up to 450,000 cycles	super Intensive tested up to 600,000 cycles	very Intensive tested up to 450,000 cycles
Release system for manual opening	key-operated	key-operated	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)	-20°C ÷ +55°C (-35°C ÷ +55°C with NIO enabled)	-20°C ÷ +55°C (-35°C ÷ +55°C with NIO enabled)
Protection level	IP44	IP44	IP44	IP44
Weight (kg)	10.5	10.5	10.5	10.5
Control panel	LCU40H - LCU40HJ*	LCU40H - LCU40HJ*	LCU40H - LCU40HJ*	LCA70 or LCA80

^{*}J version for 120 Vac power supply

