

Ditec

OPEN YOUR WORLD



24V
VIRTUAL
ENCODER

SAFE



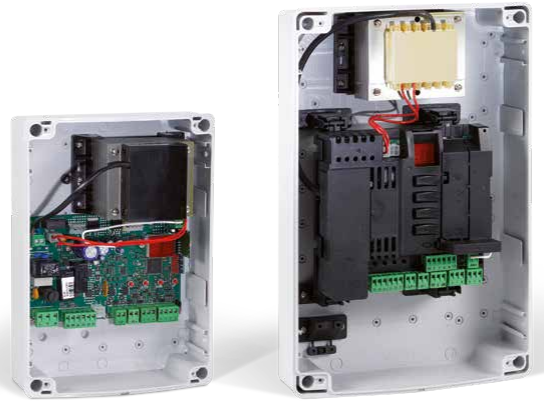
EASY TO
INSTALL



COMPLETE
RANGE

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

Ditec PWR



TECHNICAL FEATURES

	LCU30H - LCU30HJ	LCU40H - LCU40HJ
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		
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 with Amigo SW
FW update	■ using Amigo SW and USBPROG	■ using MicroSD or using Amigo SW and USBPROG
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

See the dedicated documentation for complete information on control panels



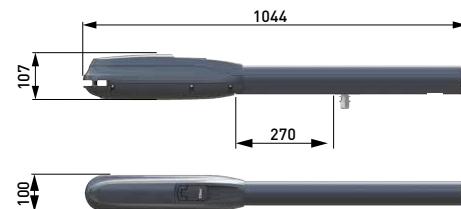
TECHNICAL FEATURES

	LCA70	LCA80
Control panel	for 1 or 2 230 Vac motors with built-in radio	for 1 or 2 230 Vac
Compatible PWR automations	PWR50AC	PWR50AC
Radio frequency	433.92 MHz as standard 868.35 MHz with ZENPRS or with BIXPR2	433,92 MHz with ZENRS or with BIXR2 868,35 MHz with ZENPRS or with BIXPR2
433MHz/868MHz interchangeable receiver module	■	■
Mains power supply	230 Vac - 50 Hz	230 Vac - 50 Hz
Motor power supply	230 Vac - 50 Hz; 2 x 2 A max; 1 x 4 A max	230 Vac - 50 Hz; 2 x 2 A max; 1 x 4 A max
24 Vdc and 24 Vac accessories power supply	0.3 A	0.5 A
Stroke control	end stop detection and time calculation	end stop detection and time calculation
Limit switch provision		■
Energy saving		■ reduced consumption 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	187x261x105 mm
INPUTS		
Opening control	shared with step-by-step control, which can be 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	■	■
Automatic closing contact management	shared with partial opening control, selected via display	■
OUTPUTS		
Flashing light	230 Vac / 25 W max	230 Vac / 25 W max
Electrically operated lock	12 Vac / 15 W max	12 Vac / 15 W max
8.2 KΩ-resistance safety edge	■ with accessory	■ during opening and closing (terminal connectors already integrated in the control panel)
24 Vdc number of configurable outputs	1	2
- gate-open warning light (ON/OFF)	■	■
- gate-open warning light with proportional blink rate	■	■
- courtesy light	■	■
- 24 Vdc led flashing light	■	■
PROGRAMMABLE FUNCTIONS		
Configuration of programmable functions	display and navigation keys	display and navigation keys
Force adjustment	■	■
Approach speed	adjustable	adjustable
Thrust on obstructions	adjustable	adjustable
Braking/Slowing down	adjustable	adjustable
Stop approach	adjustable	adjustable
Operation time	adjustable	adjustable
Automatic re-closing time	adjustable	adjustable
Compatibility with hydraulic motors	■	■
Heavy traffic management	■	■
Integrated datalogging (counters and recent alarm history)	■ can be viewed on display	■ can be viewed on display
FW update	■ using Amigo SW and USBPROG	■ using Amigo SW and USBPROG
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		
Magnetic loop detector	■ with LAB9	■ with LAB9

See the dedicated documentation for complete information on control panels



*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