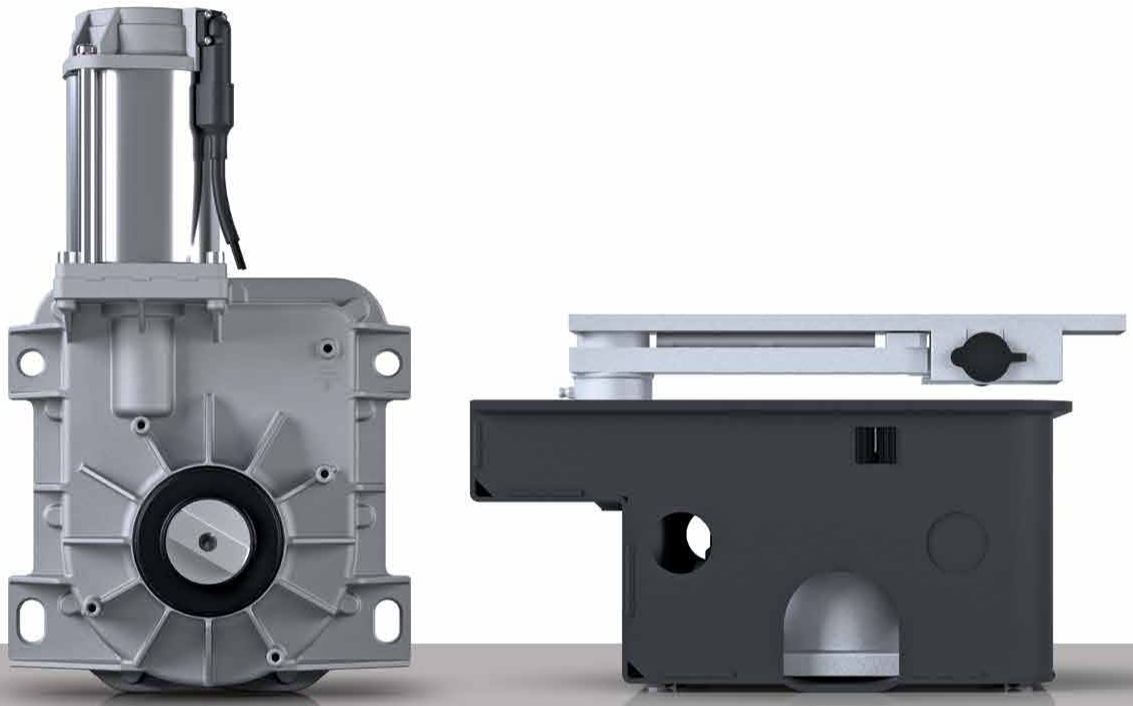
Data sheet

Ditec
OPEN YOUR WORLD



COMPLETE RANGE

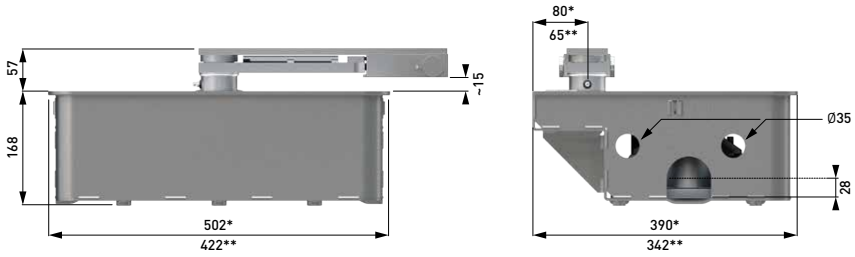
24V VIRTUAL ENCODER
SAFE

RELIABLE AND STURDY

Underground automation system for swing gates with wing up to **4 m**

Ditec **CUBIC**

EN



*Ditec CUBIC6CG **Ditec CUBIC6C - CUBIC6CM - CUBIC6CY

TECHNICAL SPECIFICATIONS

DESCRIPTION	CUBIC 6	CUBIC 6H	CUBIC 6HV
Electromechanical actuator	irreversible for up to 4 m wide wing	irreversible for up to 4 m wide wing	irreversible for up to 2.5 m wide wing
Stroke control	magnetic limit switch (optional)	magnetic limit switch (optional)	magnetic limit switch (optional)
Maximum capacity	800 kg x 2 m 350 kg x 4 m	800 kg x 2 m 350 kg x 4 m	350 kg x 1 m 200 kg x 2.5 m
Service index	3 - frequent	4 - intensive	4 - intensive
Intermittent operation	S2 = 15 min S3 = 25%	S2 = 30 min S3 = 50%	S2 = 30 min S3 = 50%
Power input	230 Vac - 50 Hz	24 Vdc	24 Vdc
Power absorption	1.5 A	12 A	12 A
Torque	340 Nm	340 Nm	220 Nm
Opening time	18 s/90°	12÷45 s/90° with CUBIC6L - 15÷55 s/90° with CUBIC6LG	6÷25 s/90° with CUBIC6L 8÷30 s/90° with CUBIC6LG
Actuator maximum opening	110° or 180°	110° or 180°	110°
Release system for manual opening	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)
Protection level	IP 67	IP 67	IP 67
Control panel	LCA70 - LCA80	LCU40H - LCU40HJ*	LCU40H - LCU40HJ*

*J version 120 Vac power supply

MAIN FUNCTIONS OF THE SYSTEM

	CUBIC 6	CUBIC 6	CUBIC 6H-6HV
Control panel	LCA70 for 1 or 2 230 Vac motors with built-in radio	LCA80 for 1 or 2 230 Vac motors	LCU40H for 1 or 2 24 Vdc motors with built-in radio
Radio frequency	433.92 MHz as standard 868.35 MHz with ZENPRS or BIXPR2	433,92 MHz with ZENRS or BIXR2 868.35 MHz with ZENPRS or BIXPR2	433.92 MHz standard 868.35 MHz with ZENPRS or BIXPR2
433MHz/868MHz interchangeable receiver module	■	■	■
Mains power supply	230 Vac - 50/60 Hz	230 Vac - 50/60 Hz	230 Vac - 50/60 Hz
Motor power supply	230 Vac; 2 x 2A; 1 x 4 A	230 Vac; 2 x 2A; 1 x 4 A	24 Vdc - 2 x 12 A
Accessories power supply	24 Vdc + 24 Vca - 0,3 A	24 Vdc + 24 Vca - 0,5 A	24 Vdc - 0,5 A
Stroke control	end stop detection and time calculation		virtual encoder
Limit switch provision		■	■
Energy saving		reduced consumption on standby*	<1 W on standby
Operating temperature	-20°C ÷ +55°C in standard conditions (-35°C ÷ +55°C with NIO enabled)		
Control panel protection level	IP55	IP55	IP55
Control panel dimensions (mm)	187x261x105	187x261x105	238x357x120
* Limitation of current absorbed by accessories on standby			
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	■	■	■
Automatic closing contact management	shared with partial opening control, selected via display	■	■
Flashing light	230 Vac 25 W max	230 Vac 25 W max	24 Vdc
Electrically operated lock	12 Vac 15 W	12 Vac 15 W	12 Vdc 15 W
24 Vdc number of configurable outputs	1	2	1
- gate-open warning light (ON/OFF)	■	■	■
- gate-open warning light with proportional blink rate	■	■	■
-courtesy light	■	■	yes, shared with electrically operated lock or flashing light
- 24 Vdc led flashing light	■	■	■
Configuration of programmable functions	display and navigation keys	display and navigation keys	display and navigation keys
Force adjustment	■ (electronic)	■ (electronic)	■ (electronic)
Speed			adjustable
Approach speed	adjustable	adjustable	
Soft Start/Soft Stop			adjustable
Thrust on obstructions	adjustable	adjustable	adjustable
Braking/Slowing down	adjustable	adjustable	adjustable
Stop approach	adjustable	adjustable	adjustable
Operation time	adjustable	adjustable	adjustable
Automatic re-closing time	adjustable	adjustable	adjustable
Compatibility with hydraulic motors	■	■	
Heavy traffic management	■	■	
Integrated datalogging (counters and recent alarm history)	■ can be viewed on the display	■ can be viewed on the display	■ visualizzabile su display e su PC con SW Amigo
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 Amigo SW and USBPROG	■ can be viewed on the display and on a PC with Amigo SW
Emergency stop	■	■	■
Safe closing (inversion)	■	■	■
Safety Test Facility (for automatic safety devices)	■	■	■
ODS – Obstacle Detection System	■	■	■
NIO - Sistema antigelo	■	■	■
NIO - Antifreeze system			■ with SBU
Provision for control-panel integrated batteries			■
Stand-alone solar-powered installation			■ with SBU*
Hybrid solar-powered installation			■ with SBU
8.2 KΩ-resistance safety edge	■ with accessory	■ during opening and closing (terminal connectors already integrated in the control panel)	■ with accessory GOPAV or SOF
Magnetic loop detector	■ with LAB9	■ with LAB9	■ with LAB9

* With SBU it is possible to use photovoltaic panels up to max 20 W to recharge the batteries. The battery recharging time and the number of possible operations depend on the irradiation conditions