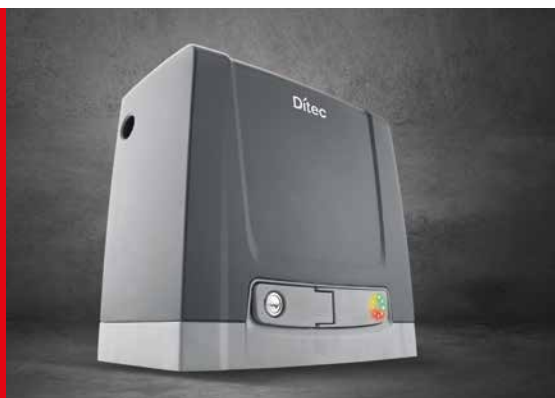


Ditec NEOS, Ditec NEOS SF, Ditec NEOS+



Ditec NEOS is the sliding-gate operating unit with three different performance levels: **Ditec NEOS**, **Ditec NEOS SUPERFAST** and **Ditec NEOS+**.

Intelligent: includes a fast self-learning procedure

Safe: continuous electronic control of impact forces and instantaneous obstruction detection.

Versatile: it is possible to adapt the automation system to any context by regulating approach distance and speed during opening and closure and initial triggering. ITT tests passed with active and passive safety edges in accordance with the EN 12453 standard. Functional safety: Category 2 PLc in accordance with the EN ISO 13849-1.

Available in both 230 Vac and 120 Vac power supply.

INTELLIGENT



SAFE



VERSATILE



Product range

Weight up to 400 kg	Weight up to 600 kg	Weight up to 1000 kg
Ditec NEOS 400 - NEOS+ 400	Ditec NEOS 600 - NEOS+ 600 - NEOS 600 SF	Ditec NEOS+ 1000

Technical specifications

Description	NEOS 400 - NEOS+ 400	NEOS 600 - NEOS+ 600	NEOS 600 SF - NEOS 600 SFJ	NEOS+ 1000 - NEOS+ 1000J
Electromechanical actuator	for sliding gates up to 400 kg	for sliding gates up to 600 kg	for sliding gates up to 600 kg	for sliding gates up to 1000 kg
Stroke control	virtual encoder	limit switch + virtual encoder	limit switch + virtual encoder	limit switch + virtual encoder
Capacity	400 kg	600 kg	600 kg	1000 kg
Maximum opening	12 m	20 m	20 m	20 m
Service index	4 - intensive	4 - intensive	4 - intensive	4 - intensive
Intermittent operation	S2 = 30 min S3 = 50%	S2 = 30 min S3 = 50%	S2 = 30 min S3 = 50%	S2 = 30 min S3 = 50%
Power absorption	230 Vac 50/60 Hz	230 Vac 50/60 Hz	230 Vac - 50-60 Hz 120 Vac - 50-60 Hz (J version)	230 Vac - 50-60 Hz 120 Vac - 50-60 Hz (J version)
Motor power supply	24 Vdc	24 Vdc	24 Vdc	24 Vdc
Power input	1.2 A	1.5 A	1.5 A 3 A (J version)	2 A 4 A (J version)
Thrust	400 N	600 N	500 N	1000 N
Opening and closing speed	0.1 - 0.25 m/s	0.1 - 0.24 m/s	0.1 - 0.4 m/s	0.1 - 0.19 m/s
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	IP 24D	IP 24D	IP 24D	IP 24D
Product dimensions (mm)	335x210x307	335x220x325	335x220x325	335x220x325
Control panel	CS12E - CS12M (built-in)	CS12E - CS12M (built-in)	CS12E (built-in)	CS12M (built-in)

	NEOS 400 - 600 - 600 SF - 600 SFJ	NEOS+ 400 - 600 - 1000 - 1000 J
TECHNICAL FEATURES		
Control panel	ref. CS12E for NEOS line with built-in radio	ref. CS12M for NEOS+ line with built-in radio
Radio frequency	433.92 MHz standard 868.35 MHz with BIXPR2	433.92 MHz standard 868.35 MHz with ZENPRS or with BIXPR2
433MHz/868MHz interchangeable receiver module		■
Mains power supply	230 Vac - 50/60 Hz 120 Vac 50/60 Hz (J version)	230 Vac - 50/60 Hz 120 Vac 50/60 Hz (J version)
Accessories power supply	24 Vdc - 0.3 A	24 Vdc - 0.5 A
Stroke control	virtual encoder	virtual encoder
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
Product dimensions (mm)	built-in	built-in
* Limitation of current absorbed by accessories on standby		
INPUTS		
Opening control	■	■
Partial opening control	■ only by radio	■
Close control	shared with emergency stop, which can be selected from the display	■
Stop control	■ only by radio	■
Step-by-step control	■	■
Hold-to-run control	■ via display	■
Automatic contact closing management (enable or disable automatic closing with external timer or a remote signal)		■
OUTPUTS		
Flashing light	24 Vdc	24 Vdc
Gate-open warning light with proportional blink rate		■
Courtesy light		■ up to 400 W
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)		■ from FW vers. vers. 1.9
Extended datalogging (detailed records for every event)		■
FW update	■ using Amigo SW and USBPROG	■ using cable for micro USB and Amigo SW
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		
Battery continuity operation	■ with SBU	■ with SBU
Support for automation system with integrated batteries	■	■
Stand-alone solar-powered installation		■ with SBU*
8.2 KΩ-resistance safety edge	■ with accessory GOPAV or SOF	■ with accessory GOPAV or SOF
Magnetic loop detector	■ 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