Dítec
OPEN YOUR WORLD

INTELLIGENT

24 V VIRTUAL ENCODER
SAFE

SETTING
VERSATILE

Automation system for sliding gates up to **1000 kg**

Ditec **NEOS**

EN

Ditec **NEOS**
sturdy and reliable

Ditec NEOS is a sliding-gate operating device for residential, commercial and industrial applications. It is designed to resist even under heavy use and demanding weather conditions.
With quick installation and easy maintenance, it is available in 3 different sizes: 400 Kg, 600 Kg and 1000 Kg. The operating device features a built-in control panel and display. Two different performance levels are available:
Ditec NEOS and Ditec NEOS+.

two digit display and navigation pushbuttons for easy configuration of settings and diagnostics

slot for safety-command **module cards** (self testing safety ribs and magnetic-loop motion detector)

ASA cover for greater resistance to weather and UV rays

cables prewired in the factory

230 V protective cover reduces the risk of electrocution

release handle is ergonomic and easy to use

preconfigured **transmitter** (step-by-step and partial opening)

internal photocell slots offer greater safety and practicality

gear motor with bronze gearwheel on bearings, protected by a completely sealed die-cast case

rubber protective cover prevents entry of dust and insects

adjustable height ensures perfect coupling with the rack

base in die-cast aluminium rovides greater stability

steel plate securely fastens to the ground

FULL COMPLIANCE WITH EU DIRECTIVES AND STANDARDS

- **2014/30/EU - EMCD** - Electromagnetic Compatibility Directive
- **2014/53/EU - RED** - Radio Equipment Directive
- **2006/42/CE** - Machines Directive - (Allegato II-B; Allegato II-A; Allegato I-capitolo 1)
- **Harmonised EU Standards:** EN ISO 13849-1 e EN ISO 13849-2; EN 60335-1; EN61000-6-3; EN61000-6-2; ETSI EN 300 220-1; ETSI EN 300 220-2; ETSI EN 301 489-1; ETSI EN 301 489-3
- **Other standards/technical specifications applied:** EN12445; EN62233; EN55014-1
- **ITT test** passed with active and passive safety rib (EN 12453)

Ditec **NEOS**
a complete product

COMPLETE PEACE OF MIND:
sturdy, durable and reliable over time

- **single-block, die-cast aluminium base** provides unmatched stability
- **special high-quality, self-levelling grease** keeps screws and crowns constantly lubricated
- our **choice of materials and the internal arrangement of components** is designed to keep out moisture, dust and insects
- the **temperature sensor** fine-tunes the gear motor's performance in the event of cold, ice and snow. (NIO - No Ice Option - function)

INSTALL AND CONFIGURE
the operating device more quickly

- **steel plates of different thickness and design** allow for correct installation in all circumstances and **levelling screws** can be used to adjust the operating device to the millimetre
- **IP24D protection rating** prevents all contact with live parts
- the **self-learning procedure** is made easy by the display, navigation pushbuttons and a specific remote control, for **installation of the motor in just two steps**
- there are **three predefined configurations** for residential and condominium use. But that's not all: **removable storage** allows operating settings to be saved and copied to another operating device
- in the event of disturbance/interference, **433 MHz and 868 MHz** frequencies are available

AUTOMATION SYSTEM
with guaranteed periodic servicing

- **total operation counter** keeps track of the total number of cycles carried out by the operating device
- **partial operation counter** (can be reset) to set a programmed maintenance threshold at which the flashing light will tell your customer that it's time to carry out servicing!

MOTOR SHAFT IN STEEL AND BRONZE

REMOVABLE STORAGE FOR SAVING SETTINGS

Ditec NEOS SUPERFAST
...extrimely fast!

- automation system for sliding gates up to **600 Kg**
- thanks to the new gear motor, the choice of more resistant and durable materials and the mechanical redesign of the gears it has been possible to guarantee a speed of up **to 40 cm/s observing all the current standards**

Ditec **NEOS+**
unique performance

The **NEOS+ range guarantees** advanced functions and exclusive technical specifications

WANT MORE PRECISE CONTROL
over settings and more room for wiring?

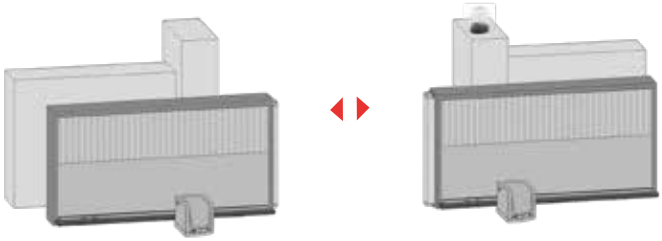
Ditec NEOS+ offers you an advanced control panel for **more precise adjustment of all settings and additional terminals** for more convenient wiring operations:

- dedicated opening/closing contacts
- emergency STOP command
- contact to indicate gate status
- independent 400 W-power contact for electric/electronic devices (i.e. garden lights, fountains, garden irrigation systems, etc.)

CHECK THE STATUS
of your operating device!

LEDs allow you to easily monitor the status of the operating device without opening the ASA cover: correct operation, battery mode, release-shutter open, fault or maintenance request.
If you need more information, you can remove the cover and read the display by simply loosening one screw!

Dedicated terminal for simple and quick connection of two Ditec NEOS+ operating devices in a master/slave configuration for synchronised control of double-wing or interlocked automation systems.



IF YOU ARE UNABLE
to solve a problem

- integrated diagnostics: check the counters and the history of the last alarms on the control panel display
- with the USB accessory you can monitor the installation and the operating device. All data will be saved on the flash drive supplied and can be analysed on a PC using the software supplied with the system

SPECIFIC ACCESSORIES

Energy controllers
to manage batteries and solar energy production, complete with assembly brackets

USB connection kit
for diagnostics on a PC

Traction kit
with chain

Racks
- in nylon and fiberglass with steel core, 4 or 6 fixing points with buttonhole
- in stainless steel, complete with screws and supports

Plates
- steel plate for heavy applications
- adjustable support for lifting off the ground
- steel plate for retrofit installations

INTELLIGENT

Ditec NEOS includes a rapid self-learning procedure, which automatically records all forces in two operations, adapting itself and self-adjusting to the most diverse installation contexts.

SAFE

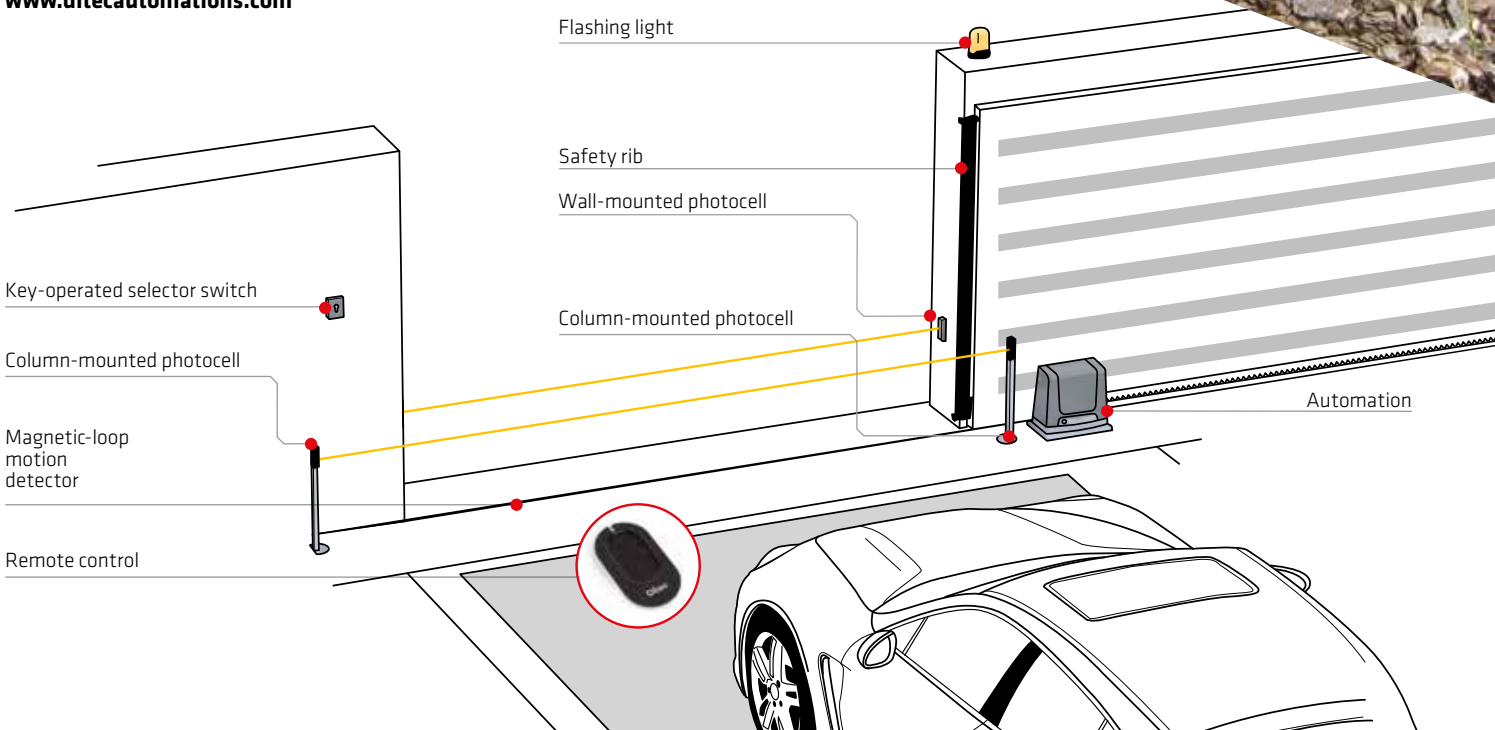
The 24 Vdc virtual-encoder technology enables constant electronic control of the impact forces and immediate obstacle detection ensuring that the operating device stops or motion is reversed (if configured).
If this is not enough, you can add **magnetic limit switches** (already included in some versions).
Additionally, in the event of a blackout, the electronic control panel intervenes activating **the incorporated batteries** (optional) which ensure correct operation of the system.

VERSATILE

From the control panel, **it is possible to precisely manage position and speed** at all times, allowing adjustment for acceleration, deceleration, start time, slowdown distance and approach speed during opening and closing.

Example of installation

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



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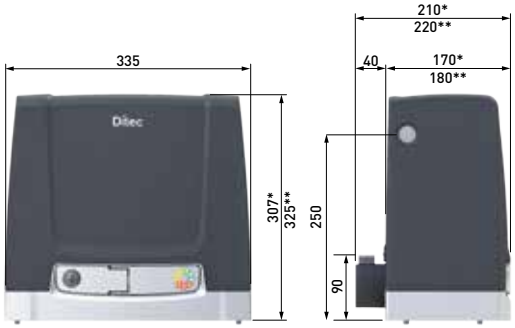

*NEOS and NEOS+ 400
**NEOS and NEOS+ 600-1000, NEOS 600 SF

TECHNICAL SPECIFICATIONS

Description	NEOS 400 - NEOS+ 400	NEOS 600 - NEOS+ 600	NEOS 600 SF - NEOS 600 SFJ	NEOS+ 1000 - NEOS+ 1000J
Max. leaf weight	400 kg	600 kg	600 kg	1000 kg
Stroke control	virtual encoder	limit switch + virtual encoder	limit switch + virtual encoder	limit switch + virtual encoder
Maximum opening	12 m	20 m	20 m	20 m
Duty class	4 - heavy duty	4 - heavy duty	4 - heavy duty	4 - heavy duty
Intermittent operation	S2 = 30 min S3 = 50%	S2 = 30 min S3 = 50%	S2 = 30 min S3 = 50%	S2 = 30 min S3 = 50%
Power supply	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
Protection rating	IP 24D	IP 24D	IP 24D	IP 24D
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)

MAIN FUNCTIONS OF THE SYSTEM

Description	NEOS 400 - NEOS 600 - NEOS 600 SF - NEOS 600 SFJ	NEOS+ 400 - NEOS+ 600 - NEOS+ 1000 - NEOS+ 1000J
Control panel	ref. CS12E with integrated radio receiver	ref. CS12M with integrated radio receiver
Radio frequency	433.92 MHz standard - 868.35 Mhz (with ZENPR2)	433.92 MHz standard - 868.35 MHz (with ZENPRS or ZENPR2)
Batteries	■ optional with SBU	■ optional with SBU
Solar-energy ready	■ optional with SBU	■ optional with SBU
Accessories power supply	24 Vdc / 0.3 A	24 Vdc / 0.5 A
Flashing light	24 Vdc	24 Vdc
Automation-system status indicator output		■
Courtesy light output (up to 400 W)		■
Integrated datalogging (counters and recent alarm history)	■ (can be viewed on display)	■ (can be viewed on display and on PC with SW Amigo)
Micro USB connection for PC diagnostics		■
Automatic closure activated by external timer		■
8,2 KΩ-resistance safety rib	■ (with accessory)	■ (with accessory)
Force and speed setting	via display	via display
ODS - Obstruction Detection System	■	■
Braking / Slowing down	via display	via display
Partial opening control	■ (only with remote control)	■ (with remote control and selector)
Open/close control	■	■
Timer controlled automatic closing	■	■
Hold-to-run control	■	■
Emergency stop/reverse	■	■
Safety-test function	■	■
Soft Start	■	■

ICIM UNI EN ISO 9001:2015 SISTEMA DI GESTIONE CERTIFICATO
Cert. n. 0957/6

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