

SAFE

24V  
ENCODER

READY TO USE



## Ditec Box

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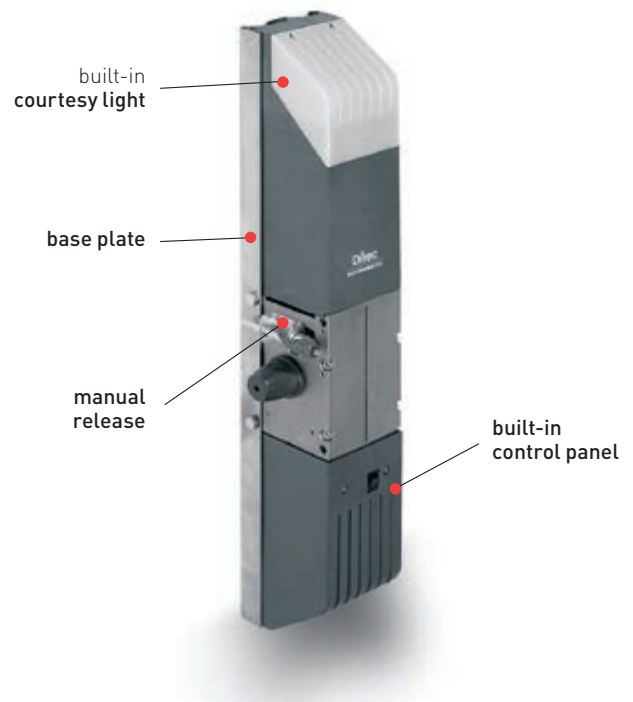
Automation system for up-and-over doors  
with counterweights

# Ditec Box

**Ditec Box** is the perfect solution for automating your **up-and-over garage door**.

With 1 or 2 gearmotors it can move both up-and-over doors with counterweights with a standard curtain, and non-protruding or folding doors. Easy to install, **it automates doors up to 7 m<sup>2</sup> with a single operating device and up to 12 m<sup>2</sup> with 2 motors in parallel.**

It is housed in an ABS cover and comes with a courtesy light, which automatically turns on when it receives a command to open.



## INSTALL THE AUTOMATION SYSTEM in less time

- the automation system is designed to enable **quick and easy mounting**, avoiding any structural changes to the door
- manufactured ready for installation with a **built-in control panel and an assembled limit switch**
- **simple and easy-to-program control panel** with dip switches and trimmers that adjust opening and closing speed, automatic closing time and thrust on obstruction
- **LEDs are built into the control panel** for error and function diagnostics
- **manual release** by means of an internal lever or with a key from outside. A metal-cord **release system** is also available to connect to the handle on the wing (optional)

## Safe and reliable AUTOMATION

- the reduction system and relative steel gears work with permanent lubrication are inserted into sturdy aluminium die castings.
- motor protected by an internal temperature probe
- insulation class 3 (SELV)

## FULL COMPLIANCE with EU directives and standards

- 2014/53/EU - RED
- 2014/30/EU - EMC
- 2006/42/EC - Machinery directive



## OUR EXPERTISE AT YOUR SERVICE

**A complete range. A dedicated team of specialists. Excellence in technology and design. Passionate to be different.**

**Entrematic** is a commercial partner with a complete range of entrance-automation solutions, which combines specialised know-how and high-profile brands.

**The Ditec brand** has been a world leader for more than 40 years, offering a **complete range of automation systems for gates, automatic doors and high-speed doors.**

**Normstahl**  
ENTRE/MATIC

**DYNACO**  
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**NERGECO**  
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**24V**  
ENCODER

**24 V DC**

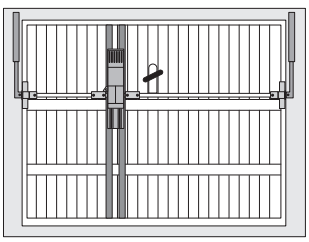
The 24 V DC virtual-encoder technology enables constant electronic control of impact forces and immediate obstruction detection, ensuring that the operating device stops or that motion is reversed (if configured), and the possibility to regulate opening and closing speeds.



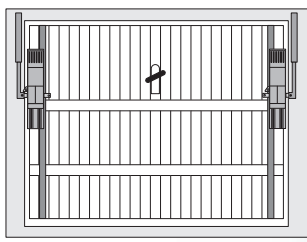
**READY TO USE**

Complete automation system with courtesy lights, fastening base and pre-wired key release, built-in control panel with incorporated radio receiver and pre-assembled limit switch. Integrated pushbutton.

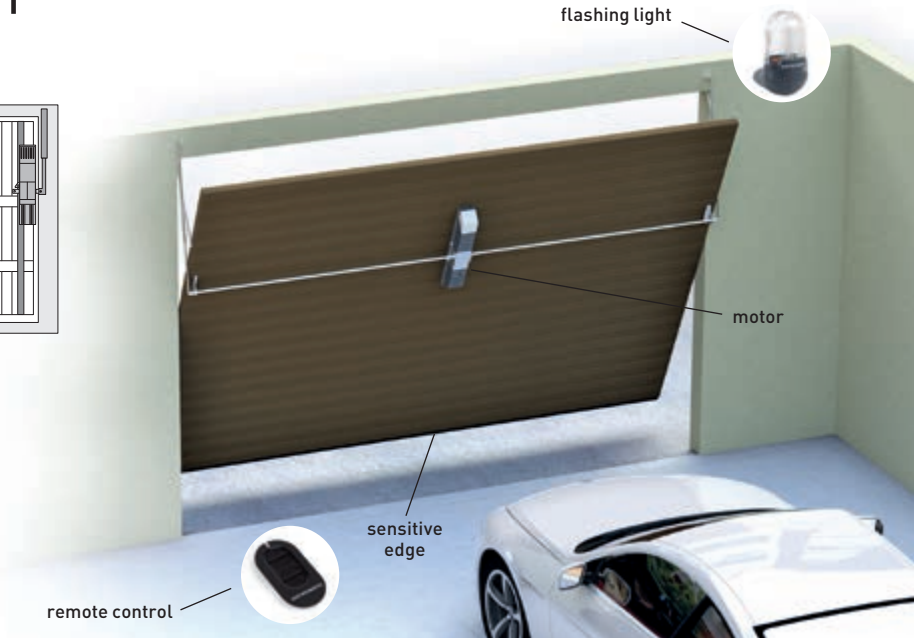
**Example of installation**



with 1 gearmotor



with 2 gearmotors



flashing light



motor

sensitive edge



remote control

Discover the entire range of Ditec brand products at [www.ditecentrematic.com](http://www.ditecentrematic.com)

**Ditec Box ACCESSORIES ARE EASY TO CHOOSE**

Pair of straight arms



Pair of curved arms



Set of transmission accessories for central mounting (max curtain width 3.4 m)



Release system

Cord-release system for connection to handle



Motor fastening base (length 2.5 m)



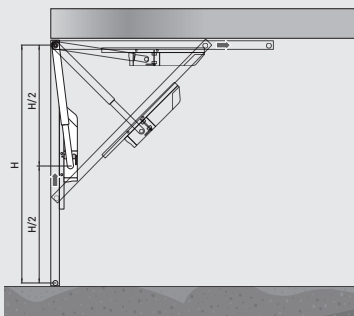
Limit switch unit



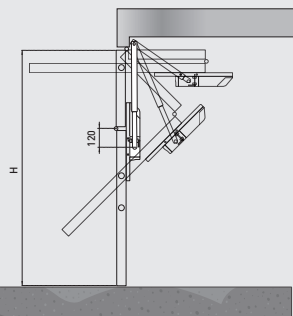
Grooved bush with dowel



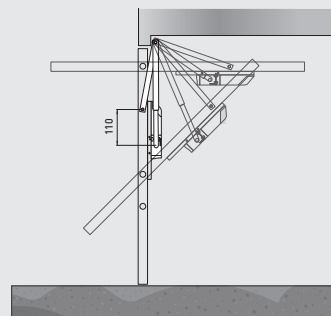
### Up-and-over door with standard curtain



### Non-protruding up-and-over door



### Up-and-over door with folding panel

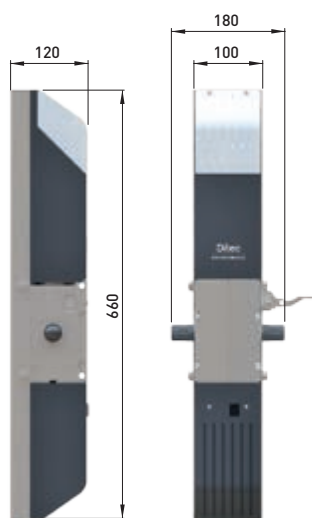


### Technical specifications

Description	Box 3EH
Electromechanical actuator	for up-and-over doors with counterweights
Stroke control	encoder + rotary limit switch
Maximum capacity	7 m <sup>2</sup> (1 motor) 12 m <sup>2</sup> (2 motors in parallel)
Service class	3 - frequent
Intermittent operation	S2 = 30 min S3 = 50%
Power supply	24 V DC
Power input	8 A
Torque	300 Nm
Opening time	15÷30 s
Release system for manual opening	lever / key
Operating temperature	-20°C / +55°C
Protection rating	IP 40
Product dimensions (mm)	660x100x120
Control panel	E1HBOX (built-in)

### Main functions of the system

Description	E1HBOX
Control panel	for 1 24 V DC motor (or 2 in parallel) with built-in radio
Mains power supply	230 V AC / 50/60 Hz
Batteries	■ (optional)
Number of motors	1
Motor power supply	24 V DC / 8 A
Accessories power supply	24 V DC / 0.3 A
Flashing light	24 V DC
Gate-open warning light	analogue
Courtesy light	■
Limit switch provision	■
Encoder	■
Force setting	automatic
ODS - Obstruction detection system	■
Speed setting	■
Braking/slowing down	■
Open control	■ (with dip-switch)
Close control	■
Timer-controlled automatic closing	■
Inching control	■
Hold-to-run command	■
Emergency stop	■
Emergency reverse	■
Operating temperature	-20°C / +55°C



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