


# CATALOGUE 11 rev.1

**Abexo**  
AUTOMATION ACCESSORIES

*"Simplicity, imagination  
and technology daily guide us  
to develop and provide the best  
solutions for signaling,  
command and access control"*

*All this, with the courtesy and  
design of the best Italy* 



## ABOUT US

In 2009, **AB Tecno** developed the first product, Poly alzacatena, taking careful care of its design and functionality. In the same year it makes agreements with the best European manufacturers of accessories, chosen for their specialization in a specific branch of the industry: Jcm-tech for radio products, XPR for control systems Access and Witt Sensoric for infrared technology, and became their importer for Italy.

In 2015, AB Tecno registered the Abexo brand, which groups under its wing the products already developed internally over the years (Poly, Volt, Alf6, the Micro series, the Traffic lights series, ...), becoming thus for all intents and purposes a manufacturer of automation accessories. The collaboration between an Italian, a Spaniard, a German and a Belgian sounds like the opening of a joke; in actually puts into practice a fundamental principle: union is strength.

Today this business collaboration has evolved and become a true integration between companies, an element that allows them to work jointly to develop new solutions.

The resulting product catalog is the result of many years of experience, intensive work and mutual esteem among partners, and is intended to be recognized as the most comprehensive, specialized and innovative in the field of automation, security and access control accessories

The shared goal of the AB Tecno team is to create reliable, quality products that keep pace with other Europeans with whom we collaborate.



## MISSION

*"Simplicity, imagination and technology daily guide us  
to develop and provide the best solutions for signaling, command and access control".*

[www.abtecno.com](http://www.abtecno.com)

**We are ACMI members**

*Association of closing systems and mechanisms (Italy)*

AB tecno is part of a network established that represents a relevant opportunity for growth and professional training for our company > [www.assoacmi.it](http://www.assoacmi.it)



## OUR VALUES

**Abexo** and **Beematic** logos, which are registered trademarks owned by AB Tecno srl, are strongly characterized by the presence of bees.

### Why so?

Because our corporate culture feels closely related to them. Exactly as our corporation, bees' organization is highly based on their collaboration and long-term vision: they have a high prospective and are work oriented to the future, not just for the single's or the colony's benefit. Bees' behaviour guarantees a beneficial effect on their species and it also positively impacts the outside context, making the difference on the well-being of the planet Earth.



**Save the bees,  
Save the Planet**

**#BEEthechange**

We believe in a sustainable business model, which is able to satisfy the needs of the present generation, without compromising the future generation ones. Exactly as the bees, we consider our corporation as a part of a much wider community and we promote a sustainable growth, both in time and space.



All the prices are meant as net prices (excluding VAT taxes) and are under Ex Works Incoterms: the valid terms are available on [www.abtecno.com](http://www.abtecno.com). The actual price list replaces all the previous ones and cannot be changed without previous announcement. Please do not hesitate to contact us for special inquiries or products that are not in this catalogue.

All the illustrations and informations inside the catalogue are not binding.



## PRODUCT LINES

### Radio products

- > Universal 4 channels transmitters: EGO, EGO32, EGO433, SH4
- > Universal multi-frequency radio keypad: EGO-KODE
- > Universal radio Antennas: SMALL, DUAL, PLANE, PIPE, BASIC433, BASIC868
- > Universal self-learning radio receivers: COPY-ONE, COPY-MINI
- > Long range radio link: MARCONI

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### Flashing lights, led traffic lights

- > Led flashing lights: MICRO-FLASH, BLINK, VOLT, ALF6, ALF-LUX
- > LED flasher battery-operated and with motion sensor: POWERLED
- > Universal spare board: RETROFIT
- > Universal high luminous efficiency spare board: RETROFIT SLIM, MEGA RETROFIT
- > Traffic light: TRAFFIC and MICRO-TRAFFIC
- > Led signalling light: MICRO-RGB
- > Central management unit for 2-way traffic light systems: TRAFFIC CONTROL
- > Traffic light kits for manual access management: RADIO-KODA

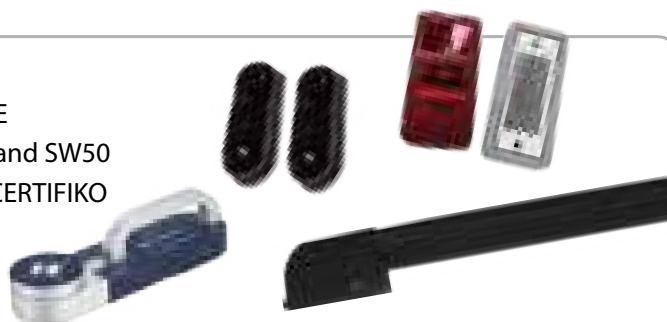
page A17



### Photocells and safety device

- > Sensitive safety edges: ACTIVE, ACTIVE-R3 and CAPTIVE
- > Photocells: MICRO-P27S, REFLEX, INFRA 16, P41, P37B and SW50
- > Crushing force gauge for gates and motorized doors: CERTIFIKO

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### Universal control units

- > Control unit and accessories for shutters: SH230
- > Central unit with remote control-controlled electric brake for motorized rolling shutters: SH230POWER
- > Control unit for motorized rolling shutters with integrated courtesy light: SH230LUX
- > Control units: 051D and 12.24D
- > Central control unit for sliding gates: K82

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## PRODUCT LINES

### Metal mass detectors

- > Metal mass detectors, MAGNETIX range: BASIC, BASIC-DGL
- > Sensor for opening industrial doors: RM620
- > Industrial door sensors (opening and safety): KABUTO
- > Sensors for automatic doors: SSR-3, HR100-CT, 3H-IR14C e HR50-UNI



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### Door opening buttons non-contact, touch and mechanical

- > Non-contact buttons: J-WAVE, CLEARWAVE, AERWAVE, MTT-IR, MTT
- > Mechanical buttons: PUSH PLATES



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### Mechanical accessories

- > Manual Bar and Protection module: MOVEO, UNI-SAVE
- > Rack and fixing elements: CRP and CRM
- > "Parachute" brakes for sloping sliding gates: CONTROLGIR
- > Columns, Fall Protection Cables and Electric Locks
- > Roller shutter locks
- > Batteries and Electric Cables
- > Enclosures for stainless steel electronic control units: BOXX



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## KEY - Symbols in the catalogue



Degree of protection against water and liquids in general



Products with possibility of multitension connection (12, 24 and 230 Vac/Vdc)



Products with a special 3 or 5 years warranty



QR codes: if scanned with a smartphone, allow to look at websites, pdf files or videos relating to the products



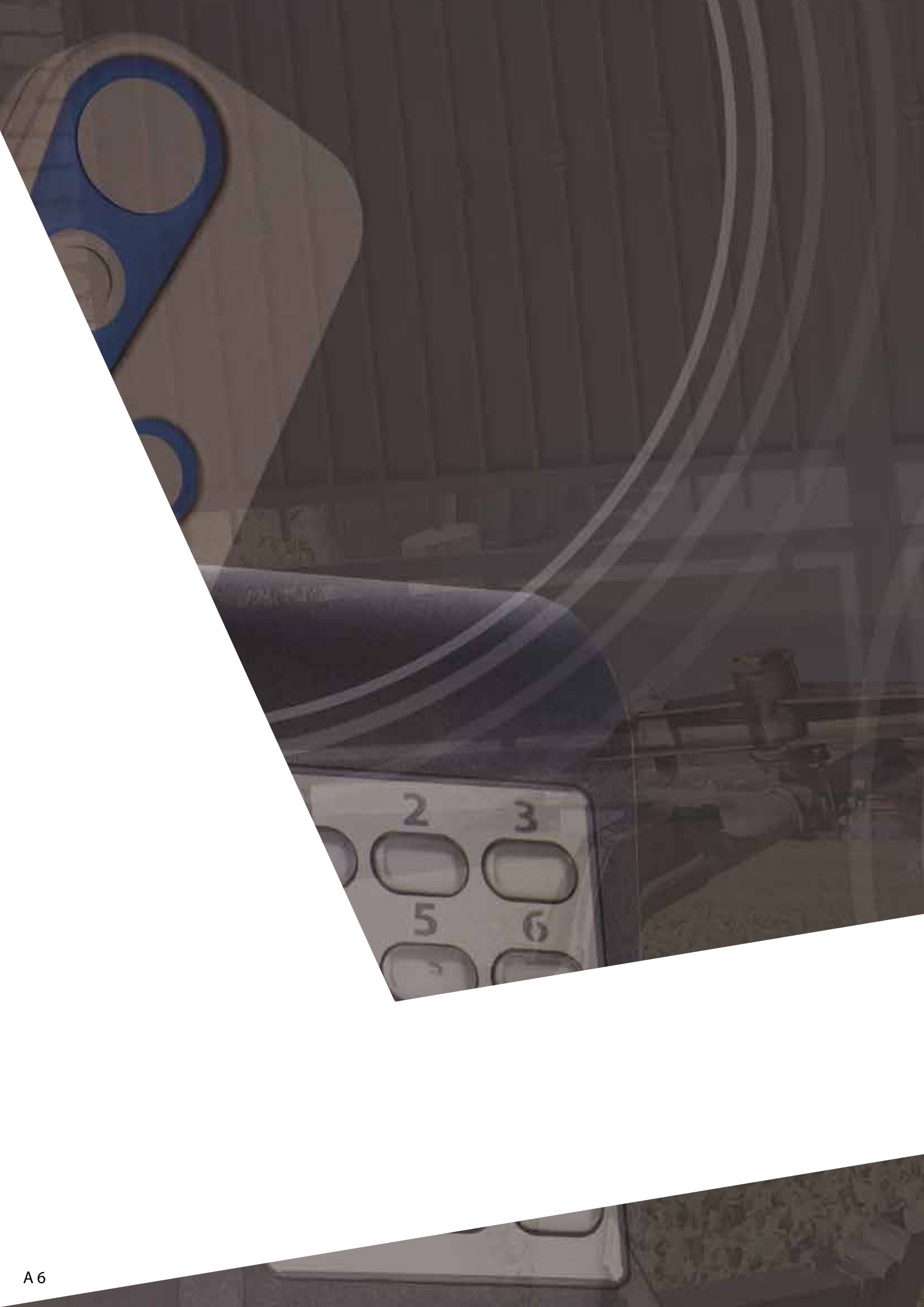
Product with Class 2 safety device certificate: it avoids crashes against obstacles, cars or people



Indication about the production area of the product



Product manufactured with attention to low energy consumption



# Radio products

Multi-frequency transmitter EGO, EGO32 / A8

433,92MHz transmitters EGO433, SH4 / A10

Multi-frequency keypad EGO-KODE / A11

Radio ANTENNAS / A12

"Universal" multi-frequency receivers COPY-ONE, COPY-MINI / A13

Long range radio link MARCONI / A14

**Abexo**<sup>®</sup>  
AUTOMATION ACCESSORIES





Radio products/

**Universal 4-channel multi-frequency transmitter  
EGO (from 433,92 MHz to 868,35MHz)**



# EGO

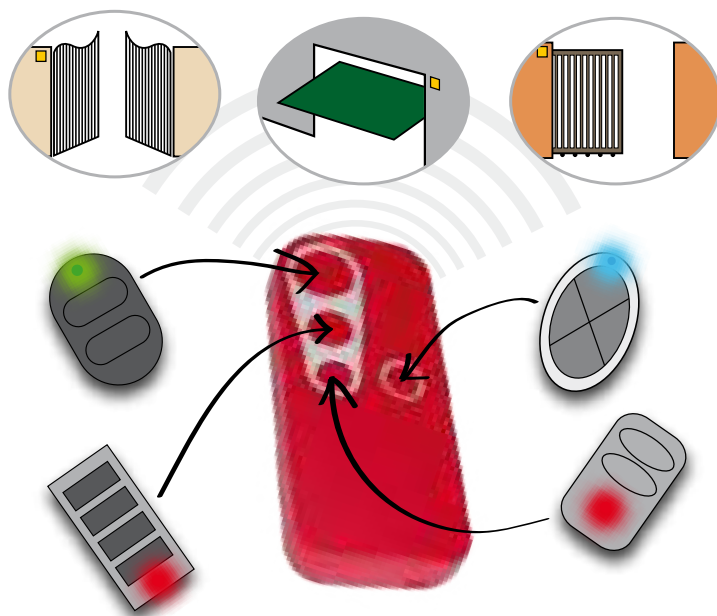
**Duplicating the original transmitters has never been so easy!  
A shell of new design, linear, light and intuitive contains a  
jewel of technology.**

The **EGO transmitter** is suitable to unify or replace all  
outproduction radio commands plus the ability to replace almost  
all the models currently trading.

**EGO** is able to emulate a large part of the transmitters. The  
frequency spectrum reproduced in self-learning range from 433  
MHz to 868 MHz (excluding quartz frequencies ranging from  
28.785 MHz to 40.600 MHz).

In addition to the frequency, **EGO** is able to recognize the  
encoding type present in the original transmitter (if fixed code or  
rolling code) and replicate it precisely and constantly.

You can store up to 4 transmitters with different frequencies and  
codes (one for each button).



*Unify the existing transmitters  
**THE ALTER-EGO** OF YOUR TRANSMITTERS  
because is an emulator  
of an original brand transmitter*



## EGO

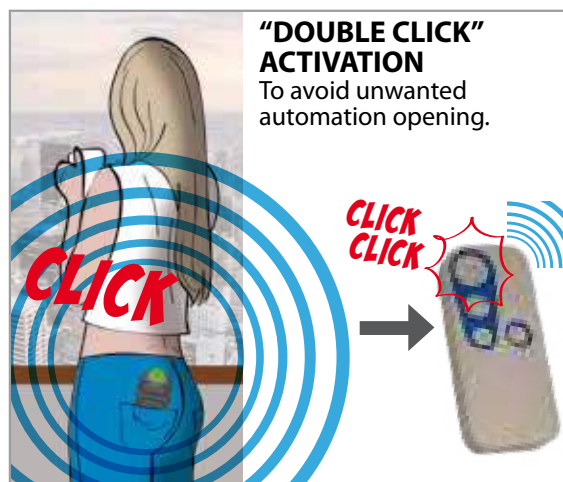
### DOUBLE LED

The double colour led  
makes it easy to  
program.



### "DOUBLE CLICK" ACTIVATION

To avoid unwanted  
automation opening.



ch.1

ch.2

ch.3

ch.4



APE - 550 / 1140



EGO transmitter

APE - 550 / 1140.20



COUNTER BOX  
n°20 EGO code APE-550/1140



> Scan the QR code / click on the link

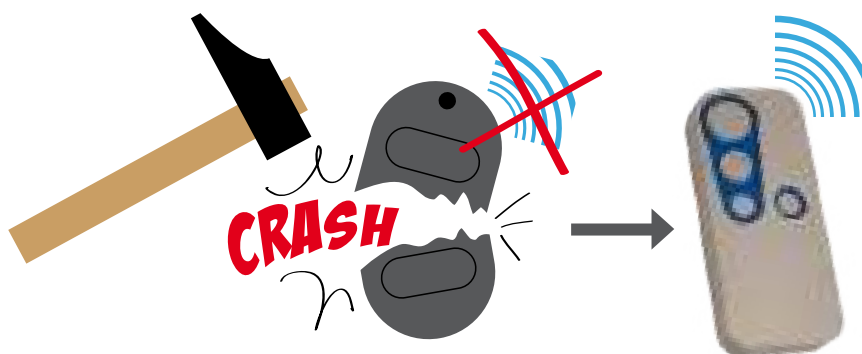
Visit our website

EGO / EGO32

<https://bit.ly/3sOlzGf>



Radio products/  
**Universal 4-channel multi-frequency transmitter**  
**EGO (from 433,92 MHz to 868,35MHz)**



### CODE GENERATOR FEATURE

If the original transmitter is not available or damaged EGO is provided internally with the codes from the models described in the instructions.

### HOW DOES IT WORK

After entering in the programming mode, press as many times as required in the key where you want to store the original code.

See example:

The table in the instructions

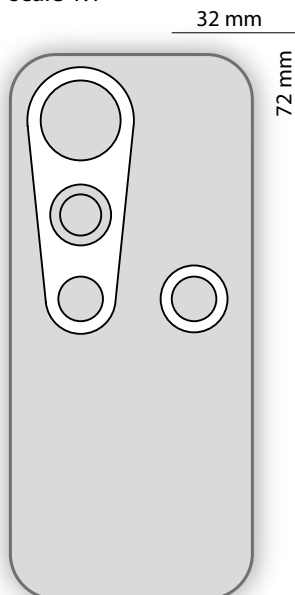
brand A	N2
brand B	N5
brand C	N6

To add the code of "BRAND A" in the EGO transmitter, press N2 times the button that you want to store (see the first row in the table). For "BRAND B" instead, press it N5 times (see the second row in the table).



### DIMENSIONS

scale 1:1



**Find out the new EGO eco-friendly with 100% recycled plastic pod**



NB: the colors of the EGOs made of recycled plastic are purely indicative and may vary depending on the material to be recycled at the time of production.

**APE - 550 / 1140.RP**

**EGO Transmitter MADE OF RECYCLED PLASTICS**

version

## EGO32



Both versions, **EGO / EGO32** can copy all fixed codes from 433,92 to 868,35 MHz. The algorithms of rolling codes that are not stored in EGO, are added to EGO 32. Check the user manual on our website to discover which EGO fits your needs.

**APE - 550 / 1132**



**EGO32 transmitter**



> Scan the QR code / click on the link

**Visit our website**

**EGO / EGO32**

<https://bit.ly/3sOlzGf>



Radio products/

## 4 Channels Transmitter with 433,92MHz frequency (keyless emulator of fixed and rolling codes – HCS standard)



version

# EGO433



Self-learning 433,92 Mhz 4 channels transmitter. Produced entirely in Italy, **EGO433** can duplicate fixed code and keyless HCS transmitters. Each channel can replicate a different transmitter and given a compatible receiver EGO433 is able to replace even a broken one thanks to its code-generator feature.

Powered by a 3 V CR2032 battery, EGO433 signals the user before the battery is empty changing the behavior of flashing led during common usage. Furthermore EGO433 prevents accidental battery drains by stopping the transmission after 20 seconds of continuous pressing.



> Scan the QR code / click on the link

Visit our website  
**EGO433**

<https://bit.ly/3izJc08>

APE - 550 / 1150



EGO433 transmitter

APE - 550 / 1192

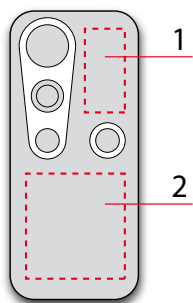


EGO SET  
n.2 EGO433 + n.1 COPY-MINI

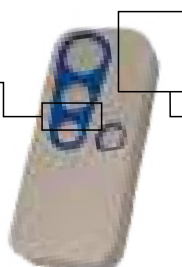
### CUSTOMIZATION OF EGO TRANSMITTERS

It's possible, on request, to customize the front part of the EGO transmitter with logos or writings, on the zones 1 and 2: minimum quantity 300 pcs.

The colour of the shell can be customized:  
minimum quantity 1500pz

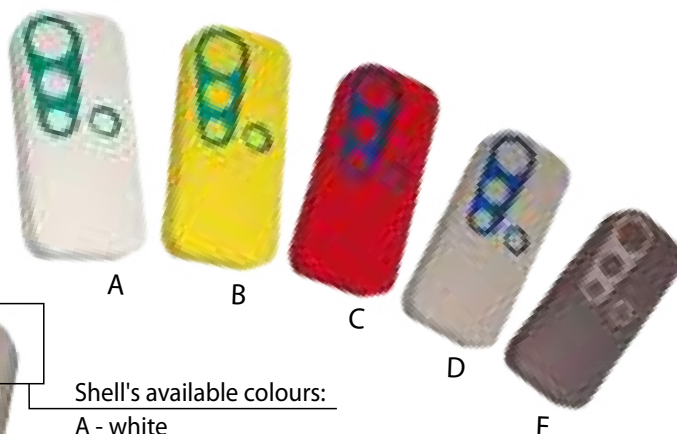


Colored push buttons of your choice:  
- blue  
- green  
- white  
- black  
- grey



Shell's available colours:

A - white  
B - yellow  
C - red  
D - dove-grey  
E - grey



Radio products/

## 4-channel keypad with 433,92MHz frequency SH line control units

# SH4

NEW

Self-learning, 4-channel keypad with 433,92 Mhz frequency. Entirely made in Italy, it transmits a **HCS cod with AB tecno key.**

The batteries are n.2 type CR2016, and the keypad informs the owner of its battery status by changing its blinking lights.



APE - 528 / 3040



SH4 transmitter

# EGO-KODE

**EGO-KODE** is a multi-frequency universal radio keypad, compatible with any receiver you already have in your automation system. It allows you to open your gateway with a simple PIN code. You will be able to get in easily and freely without a key. EGO-KODE is user-friendly, safe and accessible. It can be battery-powered or by using the two cables that were previously needed for your old key-switch.



## #TRANSMITTER COMPATIBILITY

"ALL" the rolling-codes in your keypad

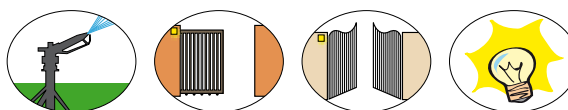


code acquisition and generation

## #OPEN 4 DIFFERENT AUTOMATIONS

different brand, frequency/type

channel 1 channel 2 channel 3 channel 4



**EGO**

## #COMPATIBILITY WITH UNIVERSAL RECEIVERS

use the receiver that you already have in the system



Find out our product range  
> see **COPY-ONE / COPY-MINI**

## #DUAL POWER SUPPLY

battery-powered or wiring



## TECHNICAL FEATURES

Channel: 4  
Frequency: 433,92 - 868,35 MHz  
Entry mode: PIN Code  
PIN code lenght: 1- 8 digits  
Power supply: 12-24 VAC/DC; max. 100 mA or CR2 lithium battery included (3V)  
Tamper: yes  
Degree of protection: IP65  
Operating temperature: -20°C to +50°C, without condensation  
Dimensioni: 92x51x27 mm

**APE - 550 / 1177**



**EGO-KODE radio keypad**

**APE - 550 / 1180**



**KODE SET  
EGO-KODE + COPY-MINI**

# ANTENNAS

The capacity of radio devices can be influenced by environmental conditions (radio interference) and doesn't exclusively depend on the quality of the transmitter and receiver, but is determined by the quality of the antenna and its installation. Abexo, in order to offer you the best solutions, offers a wide range of professional high quality antennas.

868 MHz

## SMALL

Gain at 868/915 MHz: 2,1 dBi

Frequency: 860-960 MHz /  
1710-2170 MHz

Applications: 868/915MHz  
(LoRa, LoRaWAN, Sigfox, ISM),  
GSM-GPRS 900/1800MHz,  
3G-UMTS 2100MHz,  
4G-LTE / 5G (Banda 1, 2, 3, 8)

Dimensions: 100x80x30 mm

Connector: SMA male

Cable: RG174 3 m

**Strenghts: appearance, stablity**

APE - 515 / 2868

**SMALL Antenna**

433 MHz

868 MHz

## DUAL

Gain at 433 MHz: 2,1 dBi

Gain at 868/915 MHz: 2,1 dBi

Frequency: 420-510 MHz /

810-1000 MHz

Dimensions: 210x100x30 mm

Connection: cut cable

(SMA connector)

Cable: RG174 3 m

**Strenghts: mechanical  
resistance, dual-frequency**

APE - 515 / 4368

**DUAL Antenna**

868 MHz

## PLANE

Gain at 698/960 MHz: 2,1 dBi

Frequency: 698-960 MHz /  
1710-2170 MHz /  
2400-2690 MHz

Applications: 868/915MHz (LoRa, LoRaWAN, Sigfox, ISM),  
GSM-GPRS 900/1800MHz, 3G-UMTS 2100MHz,  
WiFi 2,4GHz, 4G-LTE / 5G (Banda 1, 2, 3, 5, 7, 8, 20, 28)

Dimensions: 175x100x80 mm

Connector: SMA male

Cable: Ø5mm low loss, 5 m

**Strenghts: stability, broadband  
(it tends to keep the frequency even  
in the presence of metal masses)**

APE - 515 / 2168

**PLANE Antenna**

868 MHz

LONG RANGE

## PIPE

Gain: 5 dBi

Frequency: 850-925 MHz /

Dimensions: Ø25x450 mm (base Ø33)

Connector: N female

Cable: low loss, 5 m

**Strenghts: long range, high gain**

APE - 515 / 5068

**PIPE Antenna**

APE - 515 / 1000

433 MHz

**BASIC 433 - antenna  
with 3mt. coaxial cable**

APE - 515/1868

868 MHz

**BASIC 868 - antenna  
with 3mt. coaxial cable**

All the antennas comply  
with RoHS/2 directive



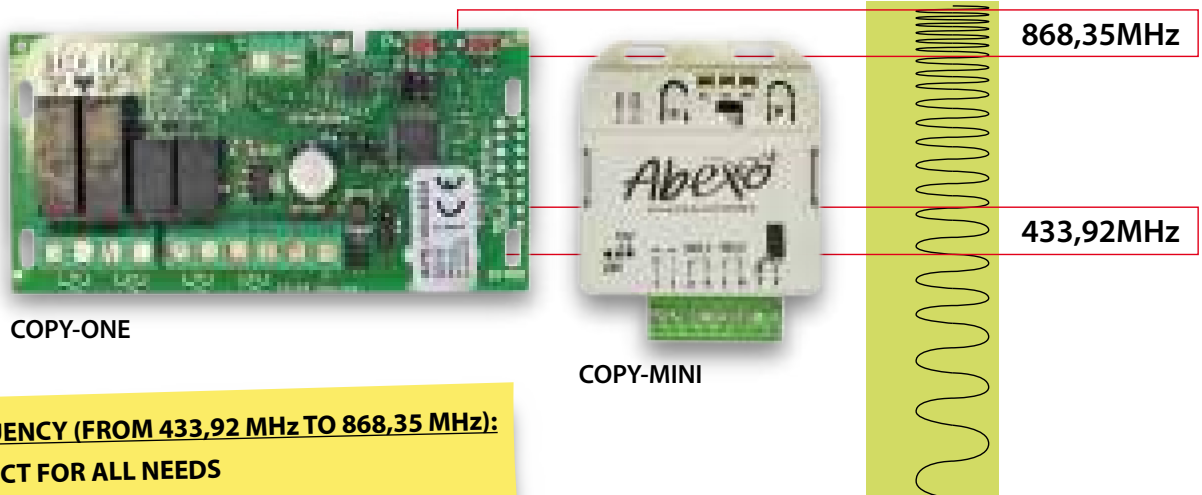
> scan the QR code / click on the link  
Check the technical features  
of these antennas

<https://bit.ly/39dgjEl>



# COPY-ONE / COPY-MINI

The universal receivers **COPY-ONE** and **COPY-MINI** allow extreme versatility in both new and existing installations. Extreme flexibility: they allow storing remote controls from different distances, with fixed and rolling codes, inside a single receiver. Therefore, the universal receivers allow, in most cases, to unify installations or replace receivers no longer operating without the need of replacing the existing remote controls, thus ensuring better service continuity and less discomfort for users.



COPY-ONE

COPY-MINI

## MULTI-FREQUENCY (FROM 433,92 MHz TO 868,35 MHz):

- > ONE PRODUCT FOR ALL NEEDS
- > THE UNIVERSAL RECEIVER FOR SIMPLIFYING MAINTENANCE
- > ABLE TO STORE MANY ROLLING-CODE TRANSMITTERS AND EVERY FIXED-CODE TRANSMITTER.

check compatibility  
on our website



COPY-ONE  
COPY-MINI

<https://bit.ly/3gARK4l>

## TECHNICAL SPECIFICATIONS

### COPY-ONE

- 4 channels (relays NO)

#### Power supply

- 12 VAC to 24 VAC
- 12 VDC to 24 VDC



#### Relay contacts

- n.2: 1A-30 VDC
- n.2: 5A-250VAC / 5A-30VDC

#### Max rolling codes storable

- COPY-ONE: 200

#### Operating temperature

- 20°C, +60°C

### COPY-MINI

- 2 channels (relays NO)

#### Power supply

- 12 VAC to 24 VAC
- 12 VDC to 24 VDC

#### Relay contacts

- n.1: 2A-120VAC / 2A-24 VDC
- n.1: 5A-250VAC / 5A-30VDC

#### Max rolling codes storable

- COPY-MINI: 200

#### Operating temperature

- 20°C, +60°C

## TECHNICAL SPECIFICATIONS COPY-ONE / COPY-MINI



Each channel of the receiver can be set in one of the three possible ways:

**Impulsive:** the relay remains active until the button of the transmitter is pressed.

**Step-by-step:** one push of the button energizes the relay, a second one de-energizes it.

**Timer:** when the button of the transmitter is pressed, the relay is energized and de-energized after a selectable time (up to a maximum of 120 minutes).

### APE - 152 / 4024



#### COPY-ONE

4-channels multi-frequency receiver  
dimensions: 46x91 mm

### APE - 152 / 4031



#### COPY-MINI

2-channels multi-frequency receiver  
dimensions 72x55x19 mm  
with removable terminal block

### APE - 152 / 5050



optional BOX for the placement  
of COPY-ONE / COPY-MINI



Radio products/  
Long range radio link, low power consumption



# MARCONI

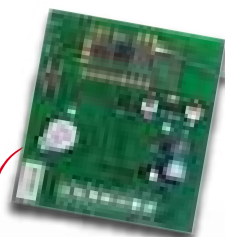


**Guglielmo Marconi** was an Italian inventor and electrical engineer known for his pioneering work on long-distance radio transmission and for his development of Marconi's law and a radio telegraph system. He is usually credited as the inventor of radio, and he shared the 1909 Nobel Prize in recognition of his contributions to the development of wireless telegraphy.

# MARCONI

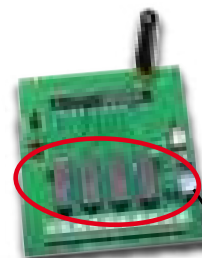
*Radio Link*

**LINK-T4E  
TRANSMITTER  
(encoder 4 CH)**



**up to 5 Km  
bidirectional  
transmission**

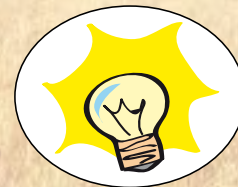
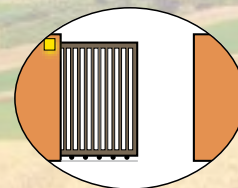
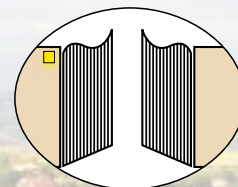
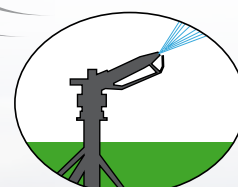
**LINK-R4  
RECEIVER  
(decoder 4 CH)**



**up to 1 Km  
bidirectional  
transmission**



**LINK-T4X**



## Radio products/ Long range radio link, low power consumption



The half-duplex radio link **MARCONI** is used for the remote control of gates, lights, alarms, irrigation systems, etc. It guarantees very long communications distance, high sensitivity, reduced energy consumption and high immunity to interference. It works thanks to the combination of **LINK-T4E** and **LINK-R4**.

LINK-T4E is a transmitter with encrypted communication capable of driving the LINK R4 receiver. This system allows to activate remote loads and it is perfect for long distance applications of activation and control, for example irrigation and alarm systems.

Cyclic reception also allows to get a consumption lower than 1mA, enabling also the usage in applications with battery supply.

### BI-DIRECTIONAL

This bi-directional communication makes it possible for the transmitter to know the status of the activated output. The transmitter LINK-T4E allows up to 5 Km of bi-directional transmission whilst LINK-T4X up to 1 Km.



The LoRa technology allows long range transmissions thanks to its point-to-point wireless communications system

### TECHNICAL DATA

Voltage: 9÷26 Vdc / 12÷26 Vac

Average consumption at rest with all the contacts open:  
decoder = 0,8÷1 mA

Maximum consumption (Tx RF) with all the contacts open:  
encoder = 45 mA / decoder = 45 mA

Max relay contacts power: 5A@12VDC / 5A@220VAC

Frequency: 868,30 MHz

RF power: decoder = 13÷14 dBm / encoder = 10÷12 dBm

Modulation: LORA™

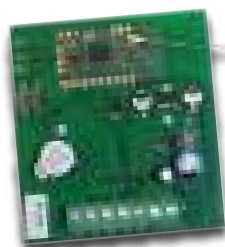
Operating temperature: -20°C, +70°C

**Dimensions: 72 mm x 68 mm**

**Receiver's memory: up to 48 encoders (transmitters)**

**Configuration of the outputs: mono-stable, bi-stable, impulsive**

APE - 519 / 0025



**LINK-T4E**

4-Channels transmitter with EXTERNAL ANTENNA

APE - 519 / 0020



**LINK-R4**

4-Channels receiver with ANTENNA

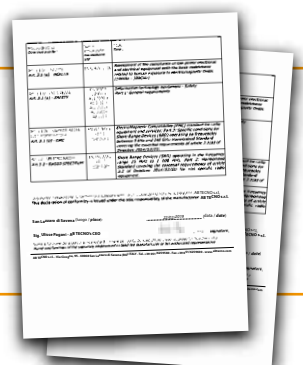
APE - 519 / 0022



**LINK-TX4**

4-Channels remote control for LINK-R4

Products compliant  
with CE limits,  
certificates









# Flashing lights, led traffic lights

Wall-mounted led flashing light MICRO-FLASH / A18  
LED flasher battery-operated and with motion sensor POWERLED / A19  
Universal spare board RETROFIT / A20  
Universal high luminous efficacy spare board MEGA RETROFIT / A21  
Universal, LED multi-tension flashing light BLINK, MEGA BLINK / A22  
Universal, LED multi-tension flashing light VOLT / A23  
Universal, LED multi-tension wall-mounted flashing light ALF6 and ALFLUX / A24  
LED 12/24v traffic light TRAFFIC / A26  
LED traffic light for pedestrian access MICRO-TRAFFIC / A28  
LED signalling light MICRO-RGB / A29  
Traffic light kits for manual access management RADIO-KODA / A30  
Central management unit for 2-way traffic light systems TRAFFIC CONTROL / A30

**Abexo**<sup>®</sup>  
AUTOMATION ACCESSORIES

# MICRO-FLASH



**MICRO-FLASH** is the innovative led flashing light designed to make the automation of garage doors more beautiful and high tech looking



APE - 550 / 1040

**MICRO-FLASH**  
power supply 12-24V

- perfect for overhead and sectional doors
- visible only when is flashing
- can be installed anywhere in few minutes

DIFFUSIVE  
LENS

IMPERMEABLE  
GASKET

BASE

SCREWDRIVER  
INCLUDED

GRUB SCREW

BACK GASKET

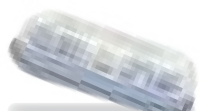
To each version of **MICRO** a back gasket was added, which guarantees a better adherence on every kind of wall and more insulation.

APE - 550 / 1041



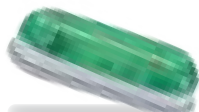
**MICRO-FLASH RED**

APE - 550 / 1042



**MICRO-FLASH LUX**

APE - 550 / 1043



**MICRO-FLASH GREEN**

## TECHNICAL DATA

**MICRO-FLASH** allows choosing, through a jumper, 2 flashing types: steady light, flashing light.

Power supply	MAX absorption (mA)	Brightness (lm)
24Vac +20% / -10%	62	45
24Vdc +/-20%	55	45
12Vdc +10% / -5%	70	40

Operating temperature: -20°C, +60°C

APE - 550 / 1040.20



**PACKAGE n°20  
MICRO-FLASH  
with counter box**

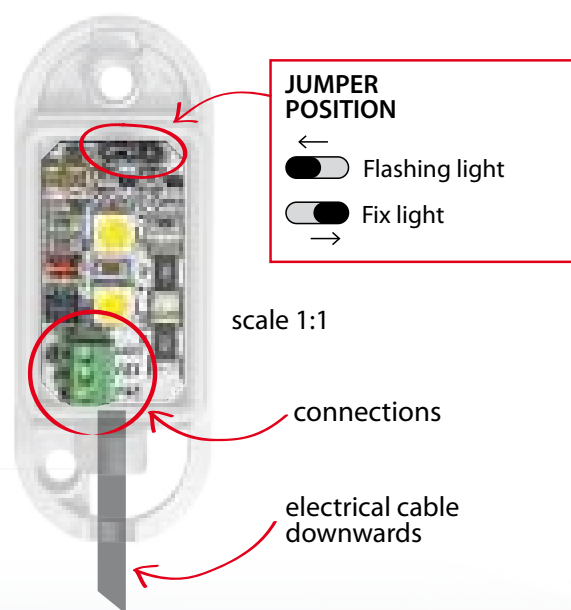
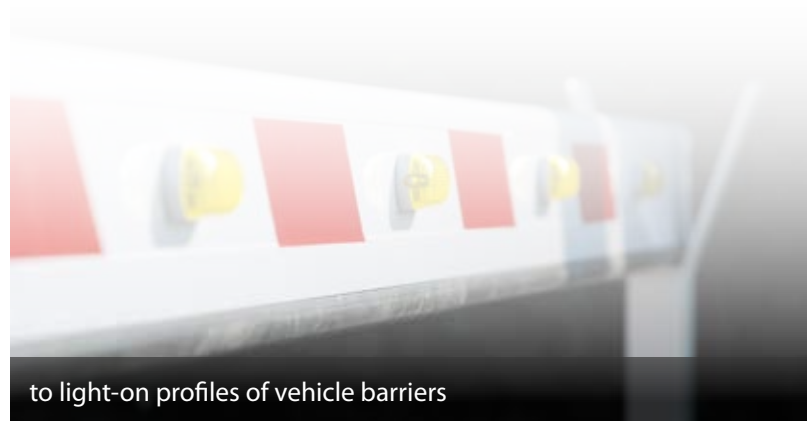
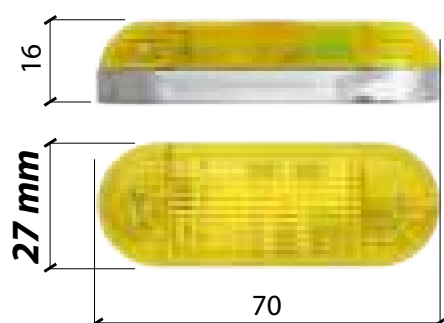
In the early years of spread of automatic gates the cost to have them was very high. The automation was economically for the few and the flashing light, installed in evidence, in addition to its role of signaller, was used as a status symbol: large and very showy. Today the gate automation is affordable for many and the role of the flashing light has changed.

**MICRO-FLASH** is a small flashing light perfectly integrable in the system because of its size, but at the same time gives the maximum visibility during movement to signal the danger.

**A nice gate need a nice flashing light. Well visible...  
but ONLY when it's NECESSARY.**

**INNOVATIVE  
DESIGN**

## Led flashing lights/ Wall-mounted led flashing light



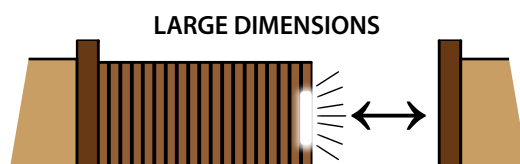
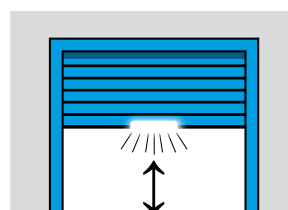
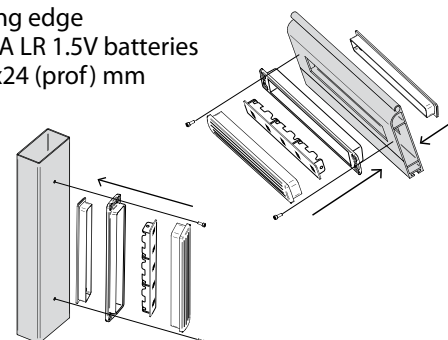
## LED flasher battery-operated and with motion sensor

# POWERLED

NEW

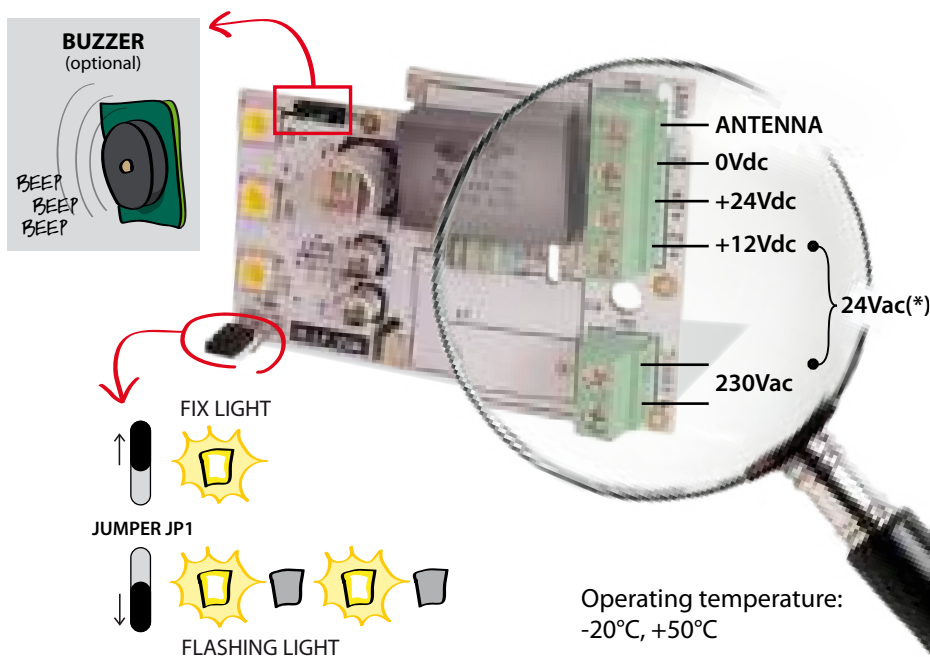
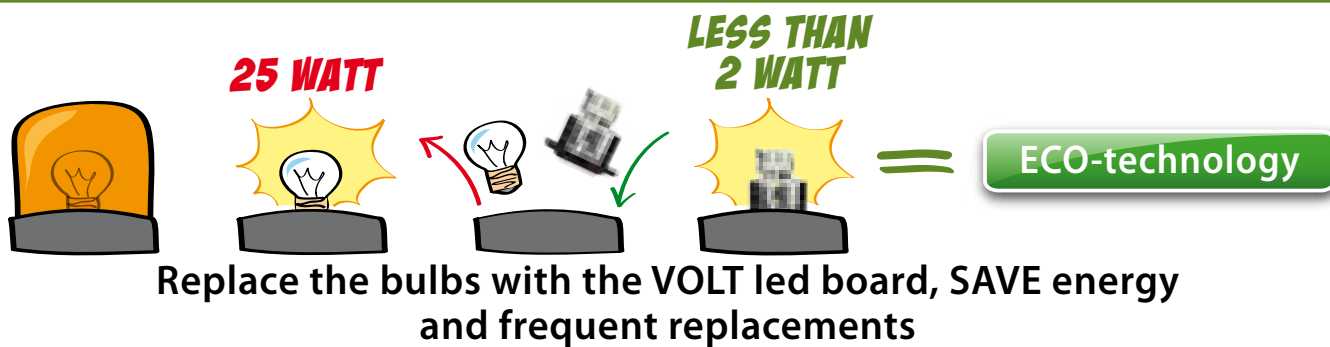
- Motion sensor with **adjustable sensitivity**
- **Wireless and without radio connection**
  - Illuminates the moving edge
  - Power supply: no.3 AA LR 1.5V batteries
  - Dimensions: 230x30x24 (prof) mm

It mounts directly on the lock (shutter, sectional door, gate) recessed or wall-mounted



**APE - 556 / 2036**  
**POWERLED**

# RETROFIT



## ECO-technology

### Energy saving

The energy saving compared with traditional incandescent flashers is about 93%.

### Duration/Resistance

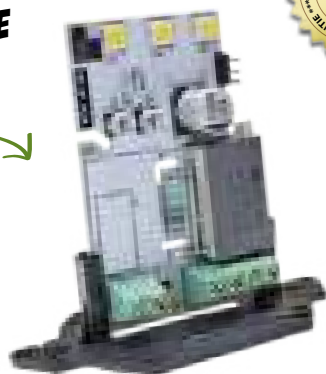
The average duration of a Led lamp is estimated at 50,000 hours compared to 1,000 hours of an incandescent one. The Leds are much more resistant to shock, vibration and voltage surges compared to traditional lamps. The Leds do not suffer of continuous switching on and off. So they are ideal for the flasher.

### Luminous efficacy

The luminous efficacy of a light source is the ratio between the luminous flux and the input power and is expressed in lumens/watt. The used LEDs have a luminous efficacy of 110 lm/W, compared to 13 lm/W incandescent lamps.

(\*) see instructions for 24 Vac connection

**"UNIVERSAL"  
FIXING BASE**



**APE - 550 / 1012**

**VOLT RETROFIT card  
LED 12/24/230V**

**APE - 550 / 1012.20**



**PACKAGE n°20 RETROFIT  
with counter box**

**APE - 550 / 1011**



**Buzzer  
(optional)**

## EXAMPLES OF COMPATIBILITY WITH MORE POPULAR BRANDS:



**BFT**  
model:  
- RAY  
- LAMP NET



**CAME**  
model:  
KIARO



**DITEC**  
model:  
LAMP



**FAAC**  
model:  
LIGHT



**FADINI**  
model:  
- MIRI  
- LAPI



**NICE**  
model:  
LUCY



**PRASTEL**  
model:  
FEBO

And  
many  
others...



# MEGA RETROFIT

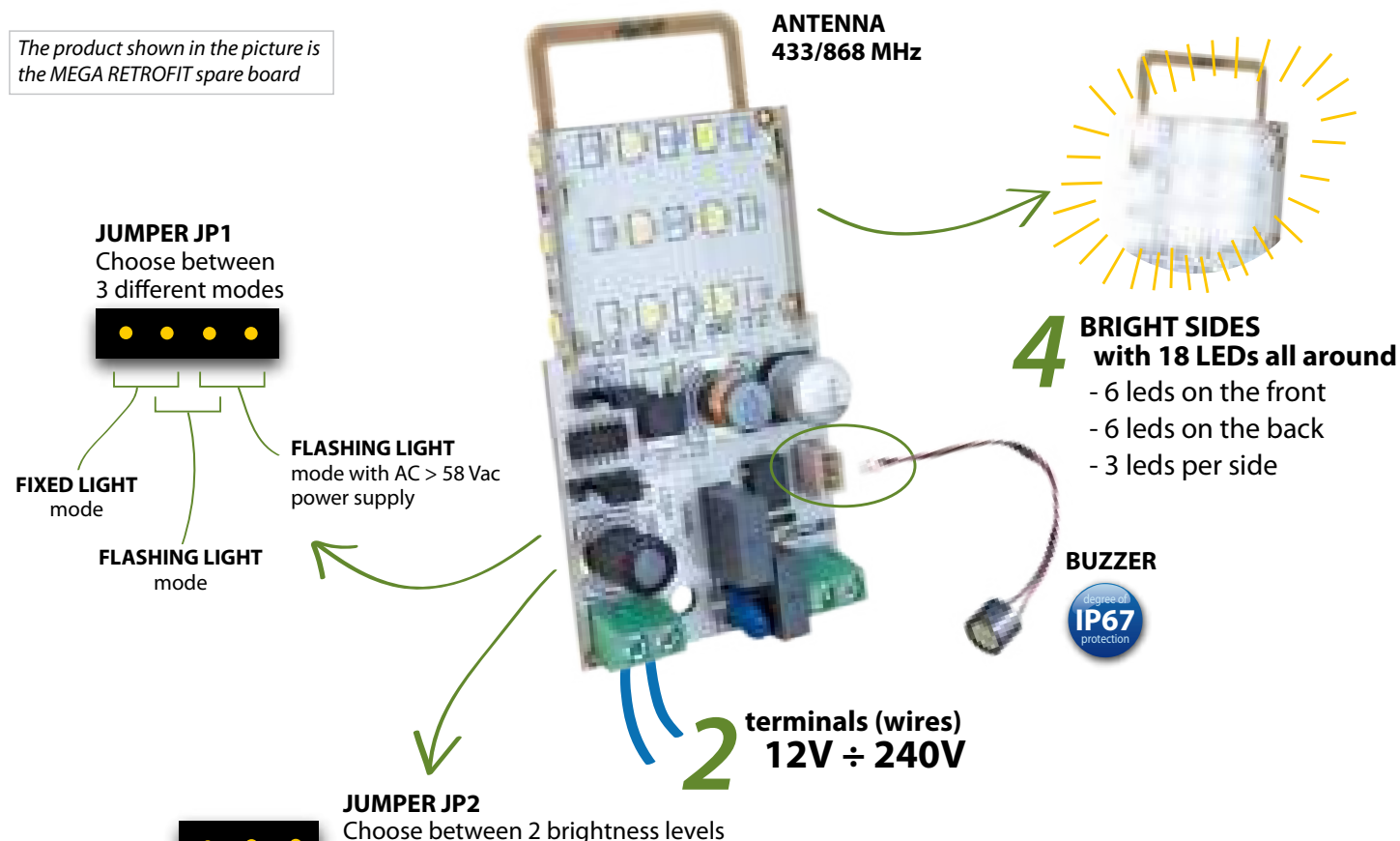


Thanks to our long-term experience with the Retrofit spare board and to our constant research of electronical components we designed a universal failsafe board. The wiring is made by 2 terminals from 12V to 230V ac and cc: thanks to the jumpers you can select the current and the flashing mode.

**MEGARETROFIT** has 18 LEDs, spread all over the 4 sides to offer a MEGA visibility!  
The optional buzzer can be placed outside the flashing lamp and the antenna is suitable for 433 and 868 Mhz.

**PATENTED**

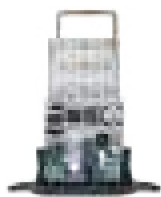
*The product shown in the picture is the MEGA RETROFIT spare board*



	NORMAL selection			HIGH selection		
	MAX absorption (mA)	Consump. (w)	Brightness (lm)	MAX absorption (mA)	Consump. (w)	Brightness (lm)
12 Vdc ÷ 48 Vdc	125mA@12Vdc	1,6	110	210mA@12Vdc	2,5	170
	33mA@48Vdc	1,6	110	60mA@48Vdc	2,9	170
12 Vac ÷ 230 Vac	80mA@12Vac	1	110	141mA@12Vac	1,7	170
	23mA@230Vac	5,3	110	36mA@230Vac	8,3	170

Operating temperature: -20°C, +50°C

## APE - 550 / 1005



**MEGARETROFIT board, WITH:**  
- ANTENNA 433/868 MHz  
- CONNECTOR FOR IP67 BUZZER  
- 18 LEDs SPREAD ON THE 4 SIDES  
- 2 BRIGHTNESS LEVELS  
- STEADY/FLASHING LIGHT

> WITH universal fixing base

**MEGA RETROFIT**

## APE - 550 / 1006



**BUZZER**  
**with cable - IP67**  
(only for MEGA RETROFIT)

## APE - 550 / 1004

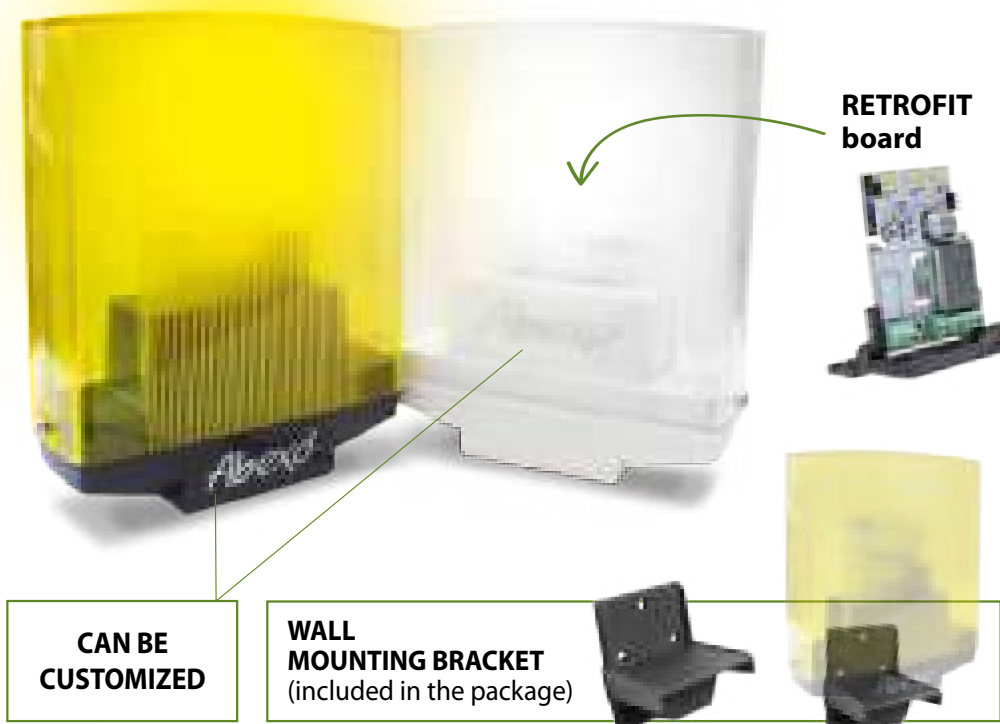


**AS MEGARETROFIT, WITHOUT:**  
- ANTENNA  
- CONNECTOR FOR BUZZER  
- 2 BRIGHTNESS LEVELS  
- SIDE LEDs (n.9 on the front  
+ n.9 on the back)

> WITH universal fixing base

**RETROFIT SLIM**

# BLINK



**CAN BE  
CUSTOMIZED**

**WALL  
MOUNTING BRACKET**  
(included in the package)

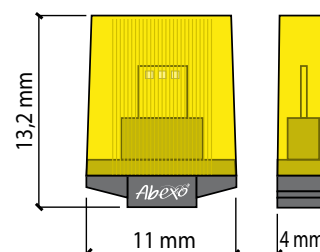
**RETROFIT  
board**

**APE - 550 / 1410**

**BLINK**  
with yellow lens

**APE - 550 / 1420**

**BLINKW**  
with white lens



# MEGABLINK

Universal led flashing light, multi-tension, high luminous efficacy

**NEW**



**MEGA VISIBILITY  
THANKS TO THE  
MEGA RETROFIT  
BOARD**

**INTEGRATED  
ANTENNA**  
433/868MHz

**IP67 BUZZER  
INTEGRATED  
IN THE BRACKET**

BEEP  
BEEP  
BEEP



**4 BRIGHT  
SIDES**  
with 18 LEDs  
all around

Choose between  
2 brightness levels

**NORMAL** selection

**HIGH** selection

Choose between 2 light modes

STEADY LIGHT



JUMPER JP1



FLASHING LIGHT

**APE - 550 / 1430**

**MEGA BLINK**  
with yellow lens

**APE - 550 / 1440**

**MEGA BLINK BUZZ**  
with yellow lens  
and BUZZER

## TECHNICAL DATA

Voltage: **230Vac**  
Current: 80mA  
Luminous flux: ~ 80lm

Voltage: **24Vac**  
Current: 80mA  
Luminous flux: ~ 80lm

Voltage: **24Vdc**  
Current: 80mA  
Luminous flux: ~ 80lm

Voltage: **12Vdc**  
Current: 40mA  
Luminous flux: ~ 30lm

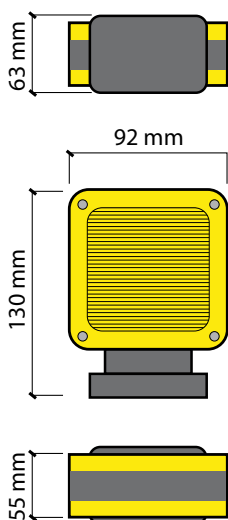
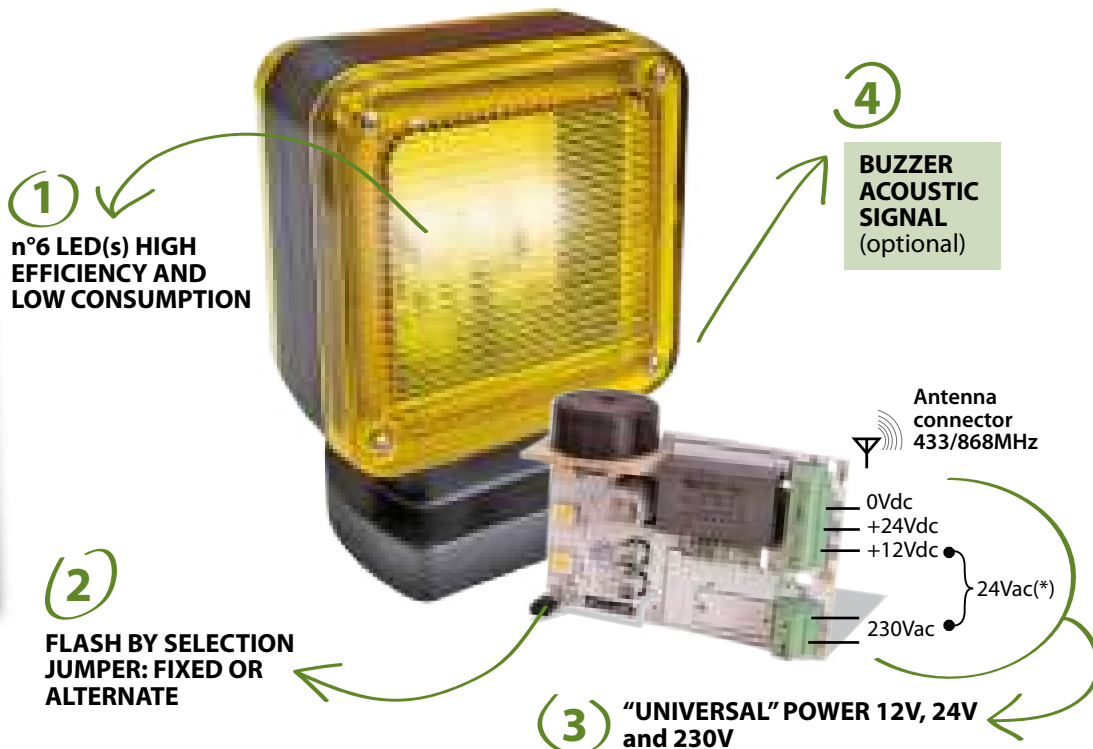
Operating temperature:  
-20°C, +60°C

# VOLT



Volt is the unit of measurement of the electrical potential and the potential difference. It is named in honor of **Alessandro Volta**, who in 1800 invented the voltaic pile, the first electrochemical battery. In 1880, the International Electrical Congress now the International Electrotechnical Commission (IEC), approved the volt (unit of measure) for the electromotive force. The symbol of the Volt is "v".

## WIDE RANGE OF APPLICATIONS



### APE - 550 / 1010

12/24/230V  
VOLT flashing light with  
antenna terminal board  
433/868MHz  
color: yellow/black

### APE - 550 / 1011



Buzzer  
(optional)

### APE - 550 / 1015



90° wall mounting bracket

### APE - 550 / 1014



90° rotation bracket

## TECHNICAL DATA

Voltage: **230Vac** (+/-10%) 50/60Hz  
Current: 80mA (+/-20%)  
Luminous flux: ~ 80lm

Voltage: **24Vdc** (+/-20%)  
Current: 80mA (+/-20%)  
Luminous flux: ~ 80lm

Voltage: **12Vdc** (+/-20%)  
Current: 40mA (+/-20%)  
Luminous flux: ~ 30lm

Operating temperature: -20°C, +50°C



## ECO-technology

**Power consumption: less than 2 watts.**  
The traditional flashers consume about 25W

### Energy saving

The energy saving compared with traditional incandescent flashers is about 93%.

### Duration/Resistance

The average duration of an Led lamp is estimated at 50,000 hours compared to 1,000 hours of an incandescent. The Leds are much more resistant to shock, vibration and voltage surges compared to traditional lamps. The Leds do not suffer of continuous switching on and off. So they are ideal for the flasher.

### Luminous efficacy

The luminous efficacy of a light source is the ratio between the luminous flux and the input power and is expressed in lumens/watt. The used LEDs have a luminous efficacy of 110 lm/W, compared to 13 lm/W incandescent lamps.

(\*) To connect 24Vac see instructions

# ALF6

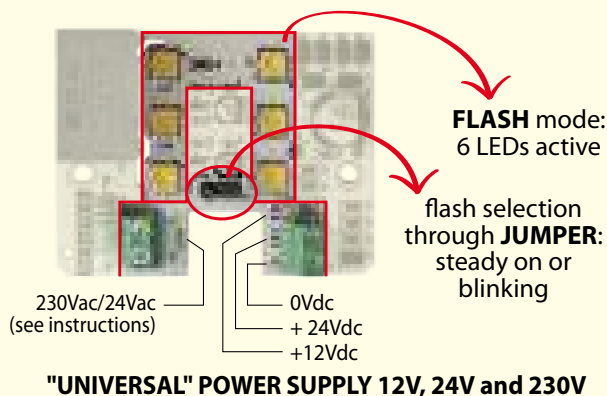
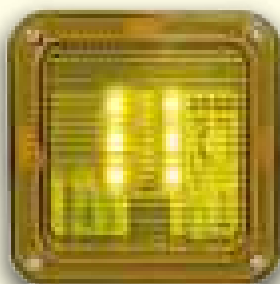


The wall-mounted led flashing light ALF6 is easy to install and elegant. Its multi-tension power (12/24/230V) makes it suitable for use with all control units, thanks to its flash selection jumper.

The ALF LUX version relies on the control unit to activate a night-time courtesy light (1 led) thanks to an integrated twilight sensor.

ALF LUX turns into a courtesy light when all the 4 high-efficiency leds are on.

## ALF6 yellow flashing light



APE - 550 / 1036

ALF6 - YELLOW  
flashing light

APE - 550 / 1036.20



PACKAGE n°20  
ALF6 with  
counter box

## ALF6W white flashing light



APE - 550 / 1036.W

ALF6W  
WHITE flashing  
light

## ALF LUX ALF+LUX (3+1 LEDs with white lens)



**BLINKING mode:**  
3 leds

+



**STEPLIGHT mode:**  
1 led, automatic switch-on  
with integrated twilight sensor  
(with 2 thresholds selectable  
via jumper)

or



**COURTESY LIGHT mode:** all the 4 leds on  
for maximum brightness,  
thanks to the integrated  
twilight sensor

APE - 550 / 1031

ALF LUX  
WHITE flashing light  
with twilight sensor  
and 3 operating  
modes



Led flashing lights/  
Wall-mounted universal LED flashing lamp, multiple-voltage



linie **ALF6/ALF6W**

**MULTI-TENSION**

Universal power supply  
12V, 24V, 230V

**LOW CONSUMPTION**

Less than 2W

**"VANDAL-PROOF"**

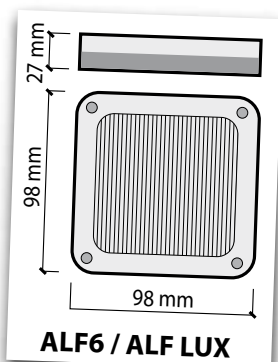
Ultra-resistant  
materials and  
stainless steel screws



**ALF LUX line**

**SPECIAL VERSION**

1 led free for signaling (24V)  
example: gate status, alarm  
status, safety operation, etc...  
Or for courtesy light with  
integrated twilight



Operating temperature  
-20°C, +60°C

**OUR ATTENTION TO DETAILS MAKES THE DIFFERENCE**

The screws used are made of stainless steel and specific for plastic.  
The LEDs used are high efficiency and reliability. A selected and  
guaranteed range of brightness and color light characterizes them.



**ECO-technology**

**ALF6/ALF6W line**

**ALF-LUX line**



Power supply	ALF6/ALF6W line		ALF-LUX line			
	current (6 led - luminous flux)	lumen	current (1 led - extra)	lumen	current (4 led)	lumen
230Vac +/-10% 50/60Hz	max 80mA	80lm	-	-	-	-
24Vdc +/-20%	max 80mA	80lm	max 35mA	30lm	max 90mA	85lm
24Vac +20%/-10%	max 80mA	80lm	-	-	-	-
24Vac +/-10%	-	-	max 150mA	30lm	max 280mA	85lm
12Vdc +10%/-5%	max 40mA	30lm	-	-	-	-

# TRAFFIC

ECO-technology



IN THE MINIMUM SIZE  
THE MAXIMUM VISIBILITY



Parking Galileo Galilei (Pisa)

**TRAFFIC** is a multi-tension (12/24 Vdc) led traffic light.  
An innovative and multifunctional product suitable for different types of applications such as:

- Civil and industrial closures
- Gates and barriers automation
- Access ramps
- Status display for alarm systems
- Status display for doors

With its **9 high-brightness leds** TRAFFIC is the solution for a number of needs. The lifespan of our implemented Leds is estimated to be equal to 50.000 hours of use (5.7 years), unlike incandescent bulbs whose lifespan is estimated at approximately 8.000 hours (less than one year).



Fori Imperiali (Roma)

## TECHNICAL DATA

### Green/Yellow light

Absorption 116 mA - 2.5 Klux  
(measured with black tube of 4.1 mm)

### Red light

Absorption 240 mA - 2.5 Klux  
(measured with black tube of 4,1 mm)

### Supply

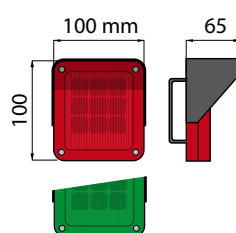
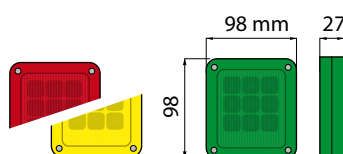
12Vdc / 24Vdc  
24Vac  
230Vac (with power supply  
code APE-550/3012)

### Operating Temperature

-20°C, +60°C

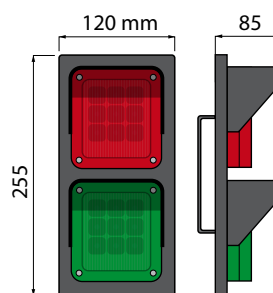
### Stainless steel screws

### Metal structure

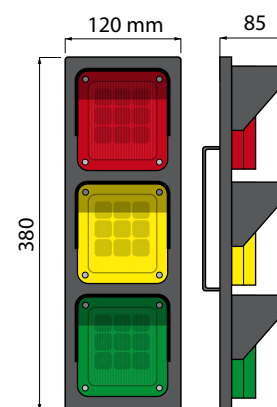


TRAFFIC1 RED / GREEN

### TRAFFIC RED / YELLOW / GREEN



TRAFFIC2



TRAFFIC3





APE - 550 / 3040



APE - 550 / 3041

**TRAFFIC 1**  
full traffic light red with metal  
structure and wall fixing brackets



APE - 550 / 3018

**TRAFFIC 2**  
full traffic light green/red with metal  
structure and wall fixing brackets

€ 180,60

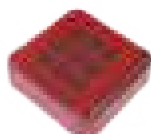


APE - 550 / 3025

**TRAFFIC 3**  
full traffic light green/yellow/red with  
metal structure and wall fixing brackets

€ 267,80

APE - 550 / 3003



**RED TRAFFIC 12/24v**  
traffic lights/led  
signaller red "max light"

APE - 550 / 3002



**YELLOW TRAFFIC 12/24v**  
traffic lights/led  
signaller yellow "max light"

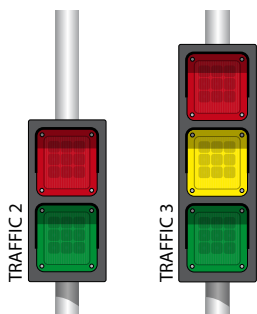
APE - 550 / 3004



**GREEN TRAFFIC 12/24v**  
traffic lights/led  
signaller green "max light"

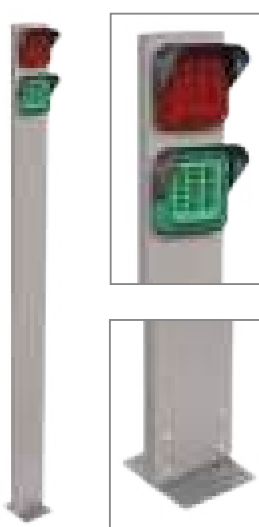
APE - 150 / 5021

NEW



**BOXX-STP**  
Stainless steel bracket for  
TRAFFIC 2-3 pole mounting

APE - 550 / 3022



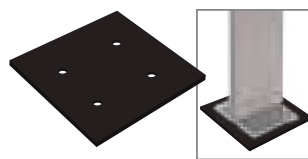
**TRAFFIC COLUMN**  
120x20x1490h mm with TRAFFIC

APE - 550 / 3009



**TRAFFIC COVER**  
metal roofing

APE - 550 / 3023



**BASE**  
245x295 mm for column



> see control  
units for  
management  
systems  
traffic lights

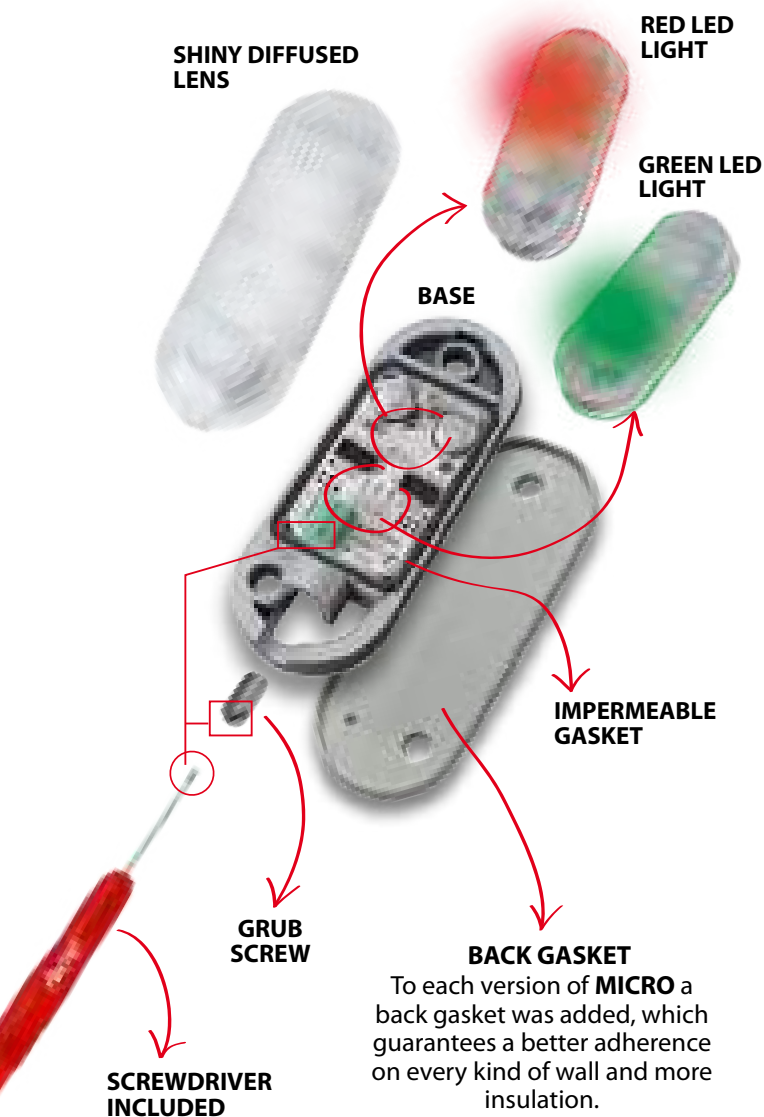
**VERSIONI SPECIALI  
E OEM  
SU RICHIESTA**

APE - 550 / 3012



**TRAFFIC DRIVER**  
converter 230/12Vdc

**MICRO-TRAFFIC** is a led TRAFFIC LIGHT ideal for signaling the status of an alarm system or of a door in an access control system. Thanks to its compact size, it can be easily dissimulated and can be applied either on the wall or in the door jambs without affecting (ruin, dirty, etc.) the aesthetics of the access points. The steel/glass colours of the materials used match both the traditional doors and door frames in aluminium (or other material).



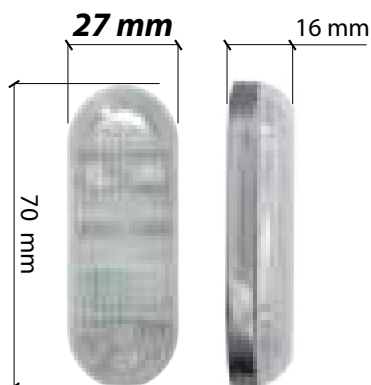
**APE - 550 / 1045**

**MICRO-TRAFFIC**

**APE - 550 / 1045.20**



**PACKAGE n°20  
MICRO-TRAFFIC  
with counter box**



## TECHNICAL DATA

**MICRO-TRAFFIC** presence of a three-pole terminal, one pole is shared, the other two are used for the independent connection of the green and red lights.

Power supply	RED		GREEN	
	MAX absorption (mA)	Brightness (lm)	MAX absorption (mA)	Brightness (lm)
24Vac +20% / -10%	55	6	55	6,5
24Vdc +/-20%	35	6	35	6,5
12Vdc +10% / -5%	25	6	20	6,5

Operating temperature: -20°C, +60°C



**MICRO-RGB** is the ideal led signalling light to show the status of an alarm system or a door in an access control system. Thanks to its compact dimensions, it perfectly fits any fixing area, walls or pillars, without affecting the elegance of the facade. The colours of the materials used to manufacture this light perfectly match both with traditional and modern or aluminium-made fixtures.

3 pin terminal with common and 2 poles for independent connection of light control. Colours can be selected through the position of DIP-SWITCH.



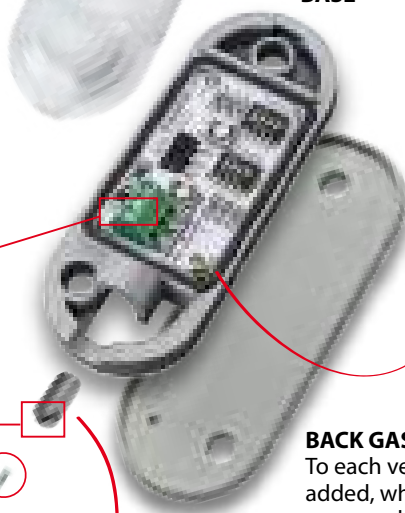
#### EXAMPLE OF SELECTION



**SHINY DIFFUSED LENS**



**BASE**



**IMPERMEABLE GASKET**

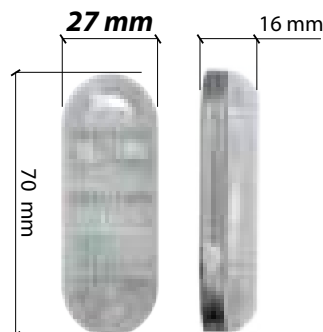
**BACK GASKET**

To each version of **MICRO** a back gasket was added, which guarantees a better adherence on every kind of wall and more insulation.

**SCREWDRIVER INCLUDED**



**GRUB SCREW**



**APE - 550 / 1038**

**MICRO-RGB**  
LED signalling light

Operating temperature  
-20°C, +60°C

#### TECHNICAL DATA

Power supply	MAX absorption (mA)	Brightness min÷max (mcd)		
		RED	GREEN	BLUE
24Vac +20% / -10%	55	180 ÷ 350	450 ÷ 850	180 ÷ 350
24Vdc +/-20%	35			
12Vdc +10% / -5%	25			

#### Table of DIP-SWITCH selection

DIP-SWITCH	COLOR SELECTION					
	Red and Green singles	IN Red double red IN Green double green	IN Red pilots the BLUE	IN Green pilots the BLUE	IN Red and IN Green pilot single BLUE	IN Red or IN Green double BLUE
	IN Red <input type="checkbox"/> IN Green <input type="checkbox"/> IN Red <input type="checkbox"/> IN Green <input type="checkbox"/>	IN Red <input type="checkbox"/> IN Green <input type="checkbox"/> IN Red <input type="checkbox"/> IN Green <input type="checkbox"/>	IN Red <input type="checkbox"/> IN Green <input type="checkbox"/> IN Red <input type="checkbox"/> IN Green <input type="checkbox"/>	IN Red <input type="checkbox"/> IN Green <input type="checkbox"/> IN Red <input type="checkbox"/> IN Green <input type="checkbox"/>	IN Red <input type="checkbox"/> IN Green <input type="checkbox"/> IN Red <input type="checkbox"/> IN Green <input type="checkbox"/>	IN Red <input type="checkbox"/> IN Green <input type="checkbox"/> IN Red <input type="checkbox"/> IN Green <input type="checkbox"/>
SW1-1		ON				
SW1-2		ON				
SW1-3						ON
SW1-4						
SW2-1	ON	ON		ON		
SW2-2			ON		ON	ON
SW2-3	ON	ON	ON			
SW2-4				ON	ON	ON



## Central management unit for 2-way traffic light systems



The **TRAFFIC CONTROL** control unit enables the management of traffic light systems two-way, thus with up to two traffic lights with 2 or 3 lights (230V or 24V).

### Use example:

Alternating one-way street  
Ramp of an underground  
garage Strait, underpass



Thanks to the LCD display, you can easily program the control unit according to one of 3 operating logics: time-based, reservation-based with control devices or mixed logic.

- Power supply: 24 Vac/Vdc
- Accessory power supply: 24 V max 0.5 A
- 3 control inputs: traffic light 1, traffic light 2, emergency
- Operating temperature: -20°C, +60°C
- Transformer included

**APE - 511 / 2050**

**TRAFFIC CONTROL**  
management center  
for 2 traffic lights (2-way)



## RADIO KODA

### Traffic light kits for manual access management



Suitable for small/medium user environments and ussi. Red/green traffic light signaling is controlled by an 868 Mhz two-channel radio transmitter. The operator manually counts the number of users in the area and selects via the transmitter the access or stop colors. The special conguration of the radio receiver eliminates the possibility of simultaneous lighting of the lanterns, and each channel of the transmitter controls the single colours.



**APE-550/3072**

#### The kit contains:

- no.1 IP65 watertight container
- no.1 868 MHz two-channel remote control
- no.1 868 MHz two-channel radio receiver
- congurate for two-light traffic light
- configured for two-light traffic light
- no.1 230/12 V power supply unit



**RADIO KODA**

To complete the kit, choose the right traffic light solution: see pages A26-A27







# Photocells and safety devices

Wired safety edges ACTIVE / A34

Radio safety edges ACTIVE-R3 / A35

CRASHLESS safety edges CAPTIVE / A36

Photocell MICRO-P27S / A38

Reflective photocell REFLEX / A40

Photocells INFRA16, P41, P37B, SW50 / A42

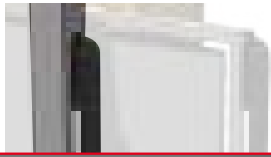
Crushing force gauge for gates and motorized doors CERTIFIKO / A44

**Abexo**<sup>®</sup>  
AUTOMATION ACCESSORIES

# ACTIVE

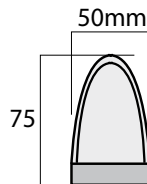
## CONNECTION

**WIRE (cable)**

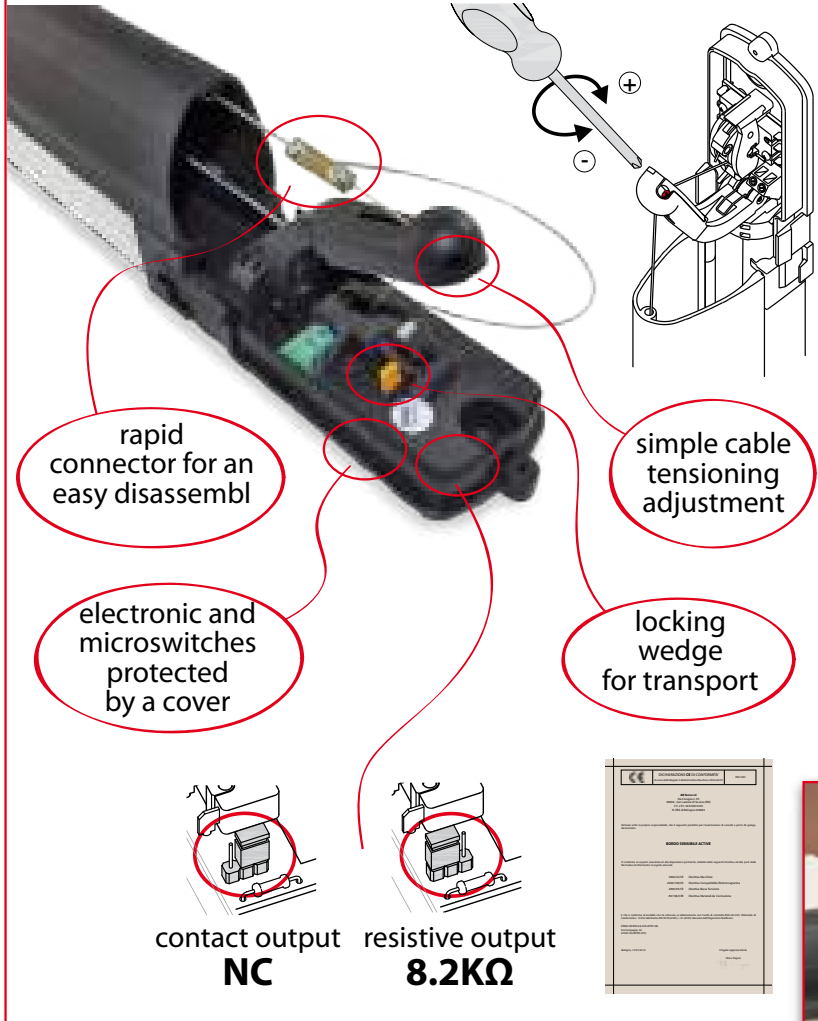


## TECHNICAL DATA

- Response time: 0.1sec
- J1 contact output: NC or 8.2K $\Omega$
- Contact capacity: 5A-250Vac
- Operating temperature: -10°C, +60°C
- Protection degree: IP54
- Maximum detection speed: 12m/min
- Recovery time: <2sec



## MECHANICAL SPECIFICATIONS



**APE - 534 / 0015**

length 1,50 mt

**APE - 534 / 0017**

length 1,70 mt

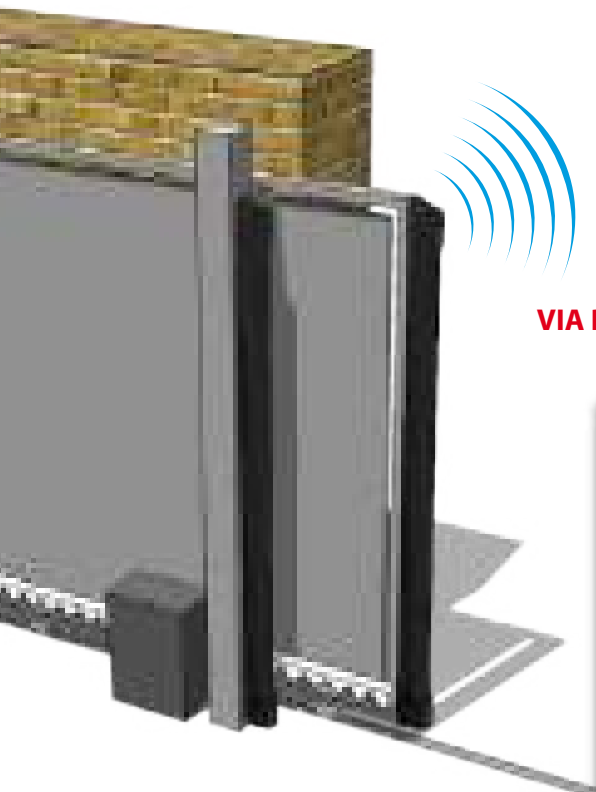
**APE - 534 / 0020**

length 2,00 mt

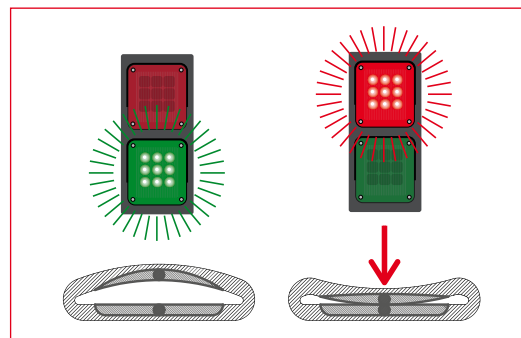
**APE - 534 / 0025**

length 2,50 mt

# ACTIVE-R3



VIA RADIO



## FEATURES RADIO / receiver RU

- Receiver 868 MHz in box
- 2 relay outputs with selectable operating modes
- Memory 6 COSTA ACTIVE-R (3 in relay 1, 3 in relay 2). By programming, an edge can activate 2 relays simultaneously
- Power supply: 12/24V ac/dc
- Consumption in rest/operation: 18 mA/80 mA
- Entry of self-check: 2 inputs 0/12/24 V ac/dc with selectable polarity
- Operating temperature: -20°C, +85°C
- Sealing: IP54 (IP65 with cable gland)
- Carton dimensions: 82 x 190 x 40 mm

JCM - 1003190

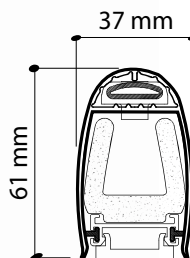
3G RB3 R868



## TECHNICAL FEATURES



INTEGRATED TRANSMITTER  
INSIDE THE SECURITY BOARD



**ACTIVE-R3** is a small sensitive edge with conductive technology that guarantees a quick response to any impact (along the whole length of the body).

The ACTIVE-R3 edge is easy to install and can be shortened to make it suitable for any kind of need.

## TECHNICAL DATA

- Operating temperature: -20°C, +55°C
- Degree of protection: IP65
- Capacity: 40 mt
- Frequency: 868 MHz
- Integrated bidirectional 868 MHz Transmitter
- Power supply: two lithium batteries 3,6V - cod. BATT3.6V (included)
- Battery life: about 2 years



APE - 563 / 3312

length 1,50 mt

APE - 563 / 3316

length 1,70 mt

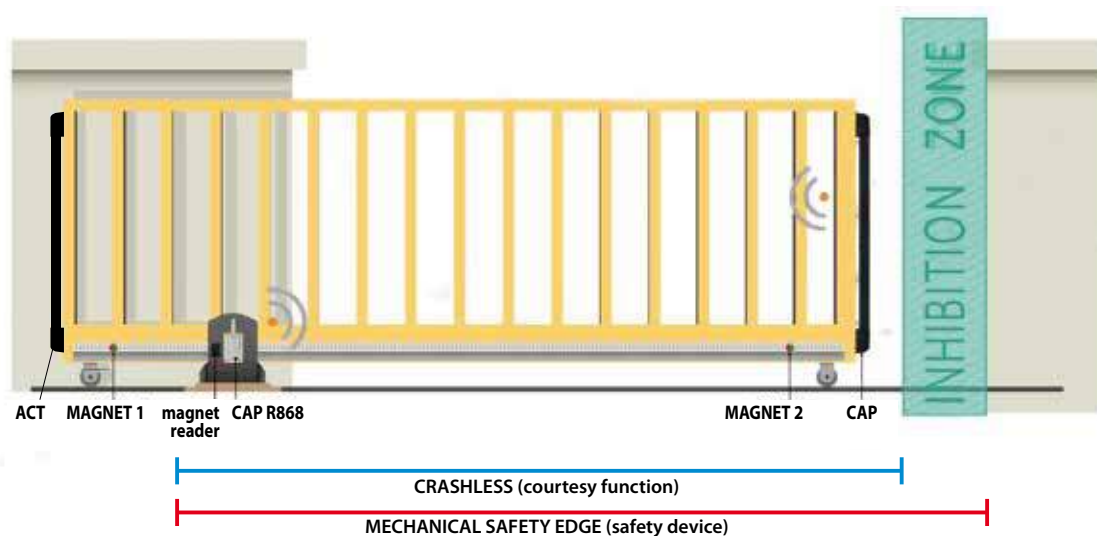
APE - 563 / 3320

length 2,00 mt

APE - 563 / 3325

length 2,50 mt

# CAPTIVE



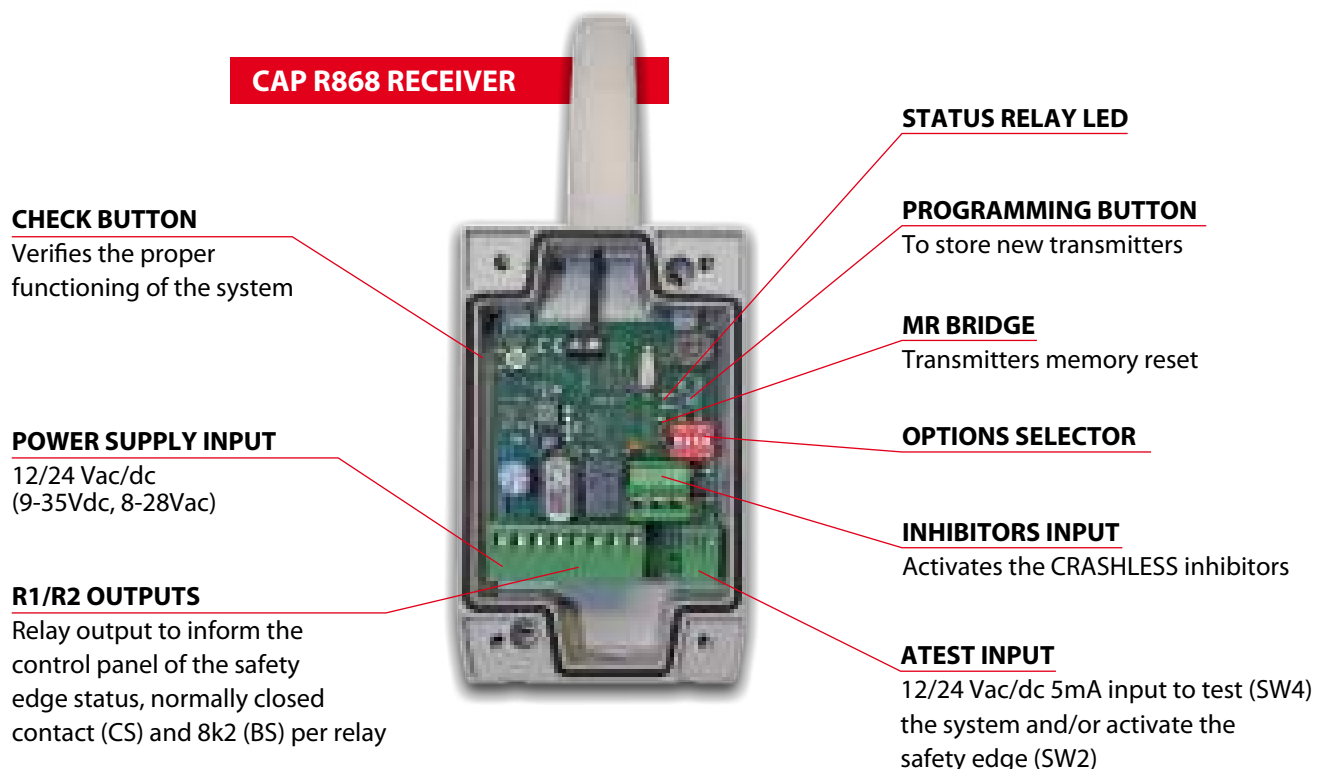
The resistive safety edge, CAP (8,2 k $\Omega$ ) is a class 2 safety device.

The CRASHLESS courtesy function allows detecting obstacles and avoiding the impact with them (people, car, obstacles in general).

The inhibition magnets have a double function:

- Deactivate the capacitive part when the gate is not moving, saving energy from the battery
- During the closing movement, they deactivate the crashless function (the capacitive device would read the column of the gate as an obstacle) keeping the safety edge active.

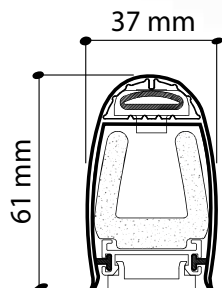
We recommend synchronizing the inhibition of the crashless function with the slowing down of the engine to be within the limits of the impact force set out in the regulations in force.





## CAP

- Mechanical safety edge with integrated transmitter and CRASHLESS technology
- Operating frequency: 868 Mhz
- Operating consumption: 12 mA



**APE - 563 / 0012**

**CAP12**  
length 1,2 mt

**APE - 563 / 0016**

**CAP16**  
length 1,6 mt

**APE - 563 / 0020**

**CAP20**  
length 2,0 mt

**APE - 563 / 0025**

**CAP25**  
length 2,5 mt

## CAP R868 receiver

- Receiver for resistive, mechanical and optical safety edges
- With the CAP transmitter it allows to activate and deactivate the CRASHLESS technology
- Nominal capacity: 50 m
- Memory: 6 transmitters
- Output: 2 relays
- Power supply: 12/24 Vac/Vdc 10%
- Relay contact: 1
- IP54 (IP65 with stuffingbox)
- Radiated power: < 25 mW
- Operating temperature: -20°C, +55°C
- Dimensions of the box: 82x190x40mm



IT WORKS  
WITH EMITTER:  
RB3 T868, RB3 TGL868,  
RB3 TGLA868 e CAP

**JCM-1006158**

**CAP R868 receiver**

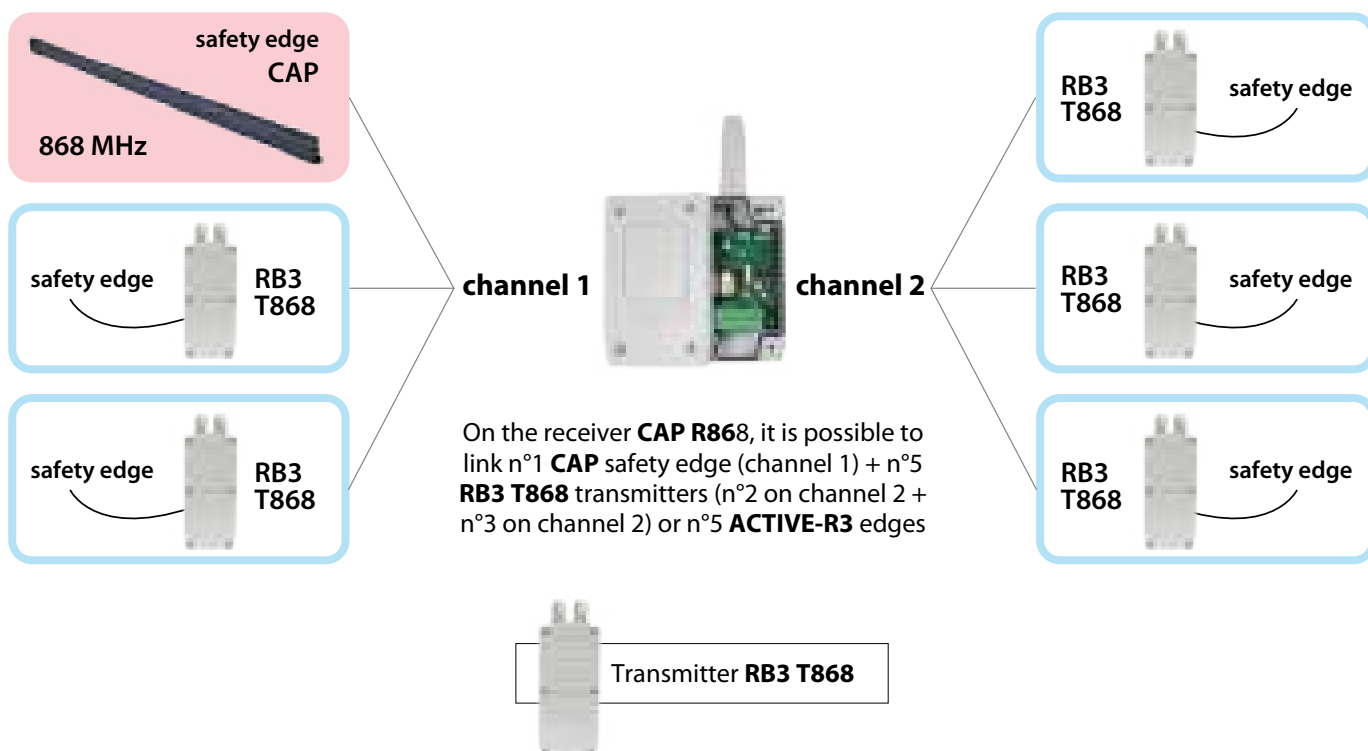


## CAP MAGIN magnets

- Inhibitors detector, with 2 magnets
- Dimensions of the detector: 67x35x20mm
- Dimensions of the magnets: 51x35x15mm
- Distance detector-magnet: 20mm max
- Cable length: 2 m

**JCM-1004455**

**CAP MAGIN**



Once again Abexo has given an answer to the demand of customers and installers, innovating the industry of gates' photocells. Indeed, having noticed the tendency to reduce the size of the pillars, Abexo has created a small photocell, easily adaptable to the limited space of the accessories. Besides the functionality, the aesthetic factor matters as well. The new photocells are almost "invisible" to the eye and well camouflaged.

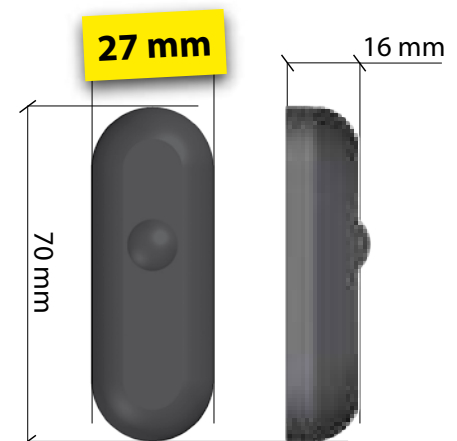
The design was thought taking inspiration from the one of the Micro-Flash e Micro-Traffic, miniaturized and equipped with terminals. To maintain compact dimensions and guarantee maximum performance, an innovative choice was made: using a relay (miniaturized as well) with **REED technology**.

In the Reed relay the classic electromechanical contacts are replaced by Reed contacts, wrapped in an excitation coil: when it generates the magnetic field, the latter closes the contact, without the intermediation of lever systems.

The absence of lever systems of the relay REED allows:

- a greater **miniaturization**
- a long average life span (usually much higher than a million of switchings)
- a greater supply range than traditional relays (REED relays are considered reliable and have a wide range of plants by different producers).

**The photocells P27S enclose all the characteristics above.**



DIFFUSION  
LENS

SEALING  
GASKET

BASE

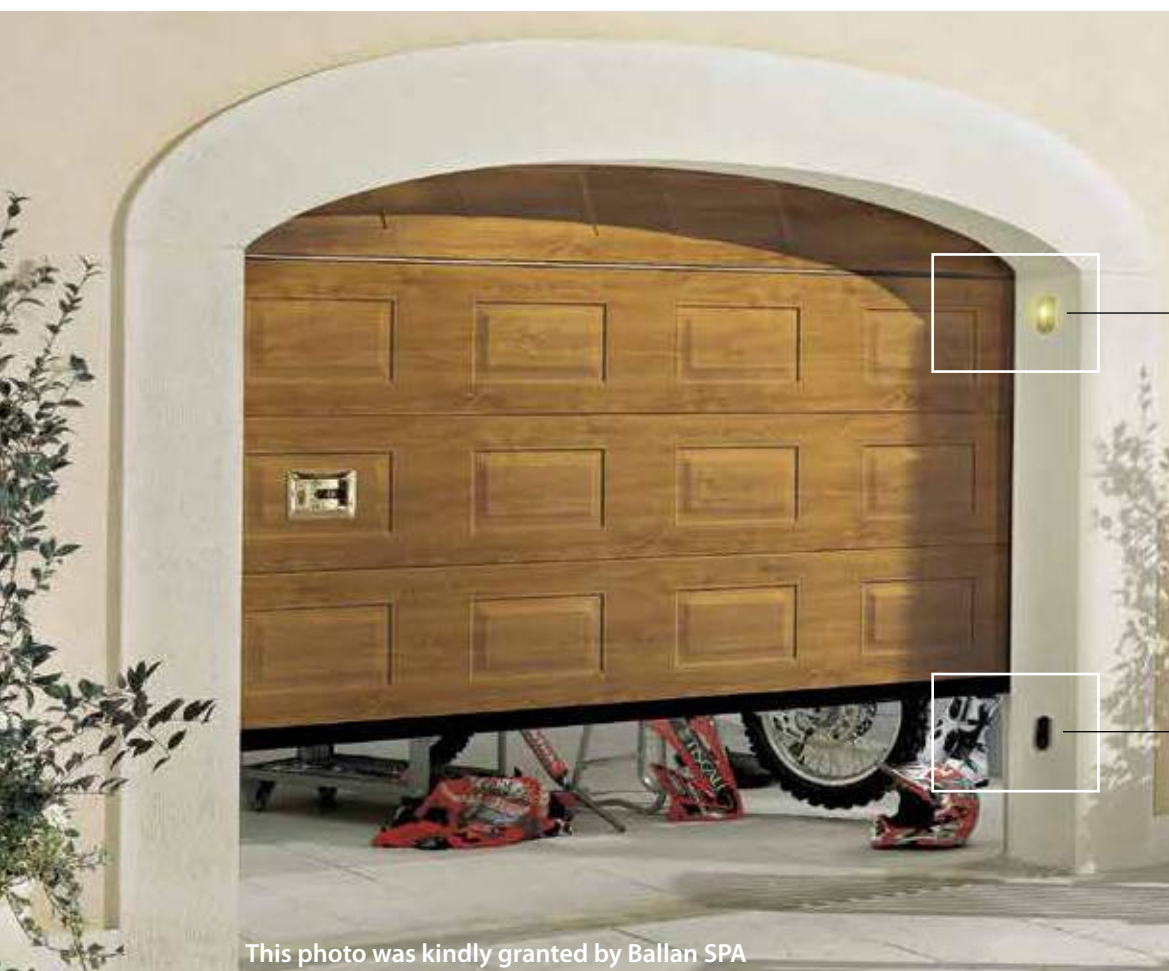
SCREWDRIVER  
INCLUDED

GRUB SCREW

BACK GASKET

In all the **MICRO** versions it has been added a back gasket which guarantees a better grip on different types of walls and greater insulation.





This photo was kindly granted by Ballan SPA



**MICRO-FLASH**  
flashing lights

Matching designs

**APE - 550 / 1077**



**PHOTOCELL P27S**  
transmitter+ receiver

**APE - 521 / 4022**



**Cable 4x0,22mm<sup>2</sup>**  
for accessories

**MICRO-P27S** allows to select, through a jumper: output 8k2 (SW1=open) or short (SW1=closed), (default).



#### TECHNICAL DATA

Power supply: 12/24 Vcc/ca  
Absorption: 60 mA  
Relè: REED TECHNOLOGY  
**Synchronism: yes**  
Max length of the door: 15 m  
Relay contacts: 0,5 A - 24 V  
Oscillation frequency: 1500 Hz  
Light type: modulated infra-red  
Operating Temperature: : -20°C, +60°C  
Weight plastic: 12gr



**MICRO**



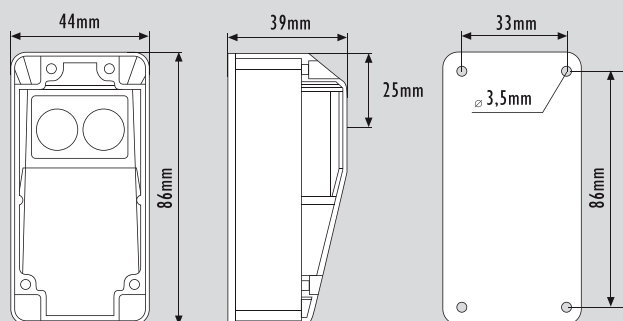
# REFLEX



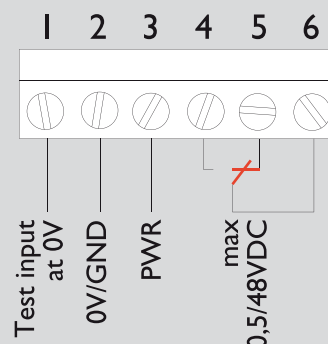
- QUICK AND EASY INSTALLATION REQUIRES THE WIRING FROM ONE SIDE ONLY.
- ON THE OTHER SIDE A REFLECTOR IS FIXED AT THE SAME HEIGHT OF THE PHOTOCELL.
- ALIGNMENT BETWEEN REFLECTOR AND PHOTOCELL IS FACILITATED TO POSITIONING LED (SEE DETAIL DRAWING "ADJUSTMENTS").
- THE FORM REFLECTOR VARIES DEPENDING ON THE RANGE UP TO 8MT. (Rectangular), UNTIL 12m. (ROUND) AND UP TO 15MT. (SQ).
- EXCELLENT RELIABILITY GUARANTEED BY A WIDE RANGE OF ACCESSORIES FOR PRESERVING THE PHOTOCELL FROM CONDENSATION, RAIN, REFLECTIONS AND SHOCK

## FEATURES

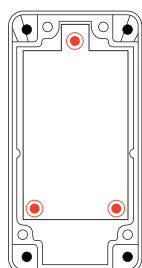
### DIMENSIONS



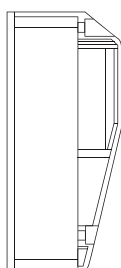
### CONNECTIONS



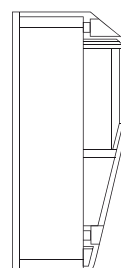
### SETTING



Optimal installation  
after assembly  
3 screws beam  
adjustment



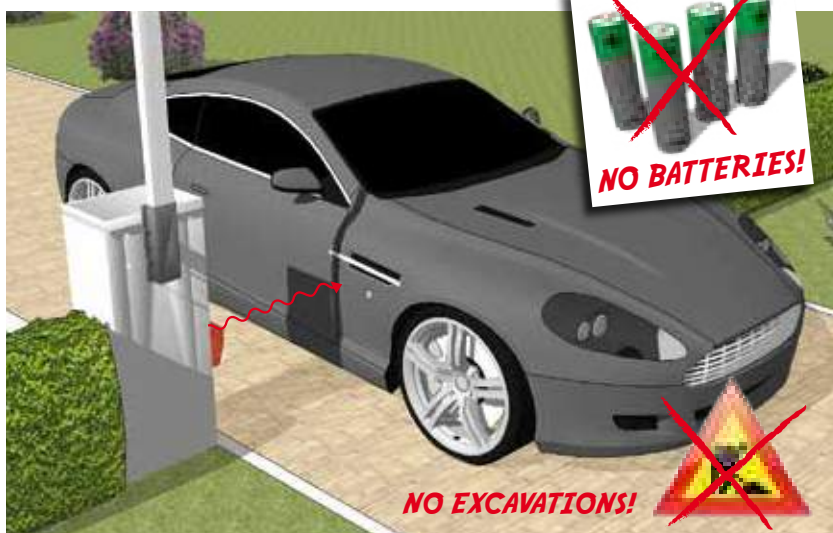
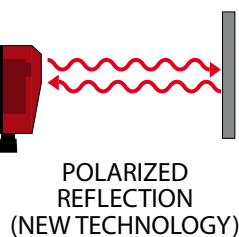
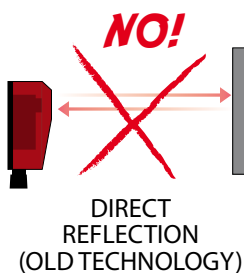
**FIXED LED LIGHT**  
optimal positioning



**FLASHING LED LIGHT**  
almost optimal positioning

## SAFETY

THE LIGHT BETWEEN PHOTOCELL  
AND REFLECTOR IS POLARIZED  
AND SO THE REFLEX IS IMMUNE TO  
"DIRECT" REFLECTIONS EXAMPLE:  
CAR WITH METALLIC PAINT.





**APE - 589 / 0080**



REFLEX photocell kit consists of:  
photocell polarized light +  
Rectangular reflector 8m. range +  
anti-condensation accessory

**APE - 589 / 0100**



REFLEX photocell kit consists of:  
photocell polarized light +  
Round reflector 12m. range +  
anti-condensation accessory

**TECHNICAL SPECIFICATIONS**

<b>VOLTAGE</b>	10...36 VDC / 24 VAC 25%
<b>OPERATIONS</b>	< 100ms in power
<b>CONSUMPTION</b>	max 30mA/24V
<b>TYPE OF LIGHTS</b>	680nm
<b>CONE ANGLE</b>	approx. 1,50 total angle
<b>DELAY</b>	< 10ms
<b>RANGE</b>	with APE-589/8150 = 15mt. with APE-589/8120 = 12mt. with APE-589/8110 = 8mt.
<b>CABLE CONNECTIONS</b>	max 1,5mm2
<b>PROTECTION DEGREE</b>	IP67 to DIN 40050
<b>OPERATING TEMPERATURE</b>	-25° / +60° C
<b>WEIGHT</b>	approx. 60g
<b>DIMENSIONS (LxWxH)</b>	86x44x39 mm

**APE - 589 / 8110**



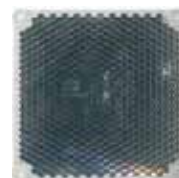
Rectangular reflector  
8m. range - width = 30mm  
height = 81mm

**APE - 589 / 8120**



Round reflector  
12m. range - 82mm diameter

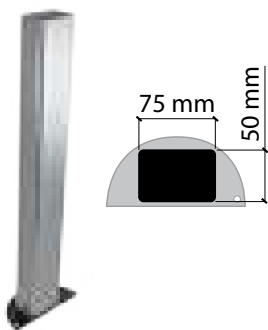
**APE - 589 / 8150**



Square reflector  
15m. range - W. / H. = 100mm

**APE - 589 / 3000**

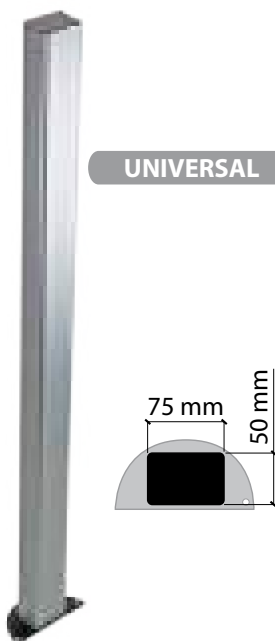
UNIVERSAL



Aluminium column  
height = 500mm  
Universal

**APE - 534 / 1120**

UNIVERSAL



Aluminium column  
height = 1200mm  
Universal

**APE - 589 / 0200**



Black enclosure protection  
from rain, shock and  
reflections

**APE - 589 / 8122**



Protective Black Case from  
rain, shock and reflections  
for round reflector

**APE - 589 / 3010**



Base to wall for  
aluminum column

**APE - 589 / 2000**



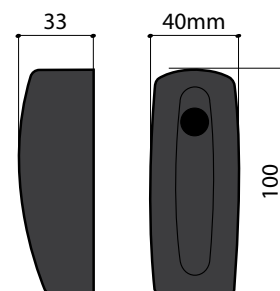
Pair of universal brackets  
for Reflex and reflector  
positioning

## INFRA 16

Pair of synchronized photocells



- Power supply: 12/24 Vdc/Vca
- Absorption: 60 ma
- IR wavelength: 880 nm
- Operating temperature: -20°C to +60°C
- Relay range: 1A - 24V
- Synchronized mode: only if powered with alternating current
- Modulation frequency: 1500 Hz
- Range: 20 m



**APE - 150 / 8508**

**Photocells  
INFRA 16**

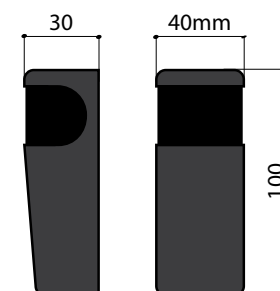
## P41

Pair of infrared adjustable photocells



The infra-red board can be rotated 180 degrees to allow alignment between the transmitter and the receiver, even where the fixing points are not perfectly in line.

- Power supply: 12/24 Vdc/Vca
- Absorption: 60 ma
- IR wavelength: 880 nm
- Operating temperature: -20°C to +60°C
- Relay range: 1A - 24V
- Synchronized mode: only if powered with alternating current
- Modulation frequency: 1500 Hz
- Range: 15 m



**APE - 528 / 1022**

**Photocells  
P41**

## P37B

Batteries movable photocells

**NEW**



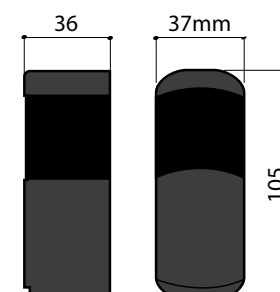
### Receiver:

- Power Supply: 12/24 Vcc/ca
- Absorption: 35mA
- Relay Range: 1A-24V
- Range: 10-15m

### Transmitter:

- Power Supply: 3V ( n.2 alkaline batteries AAA 1.5V)
- Absorption: 25mA
- Range: 10m (open PJ)/15m (closed PJ)

- Operating Temperature: -20 to +60°

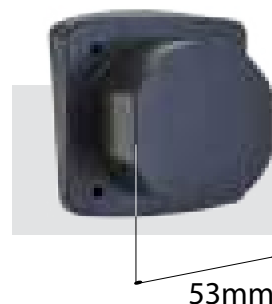


**APE - 528 / 1037**

**Photocells  
P37B**

## SW50

NEW

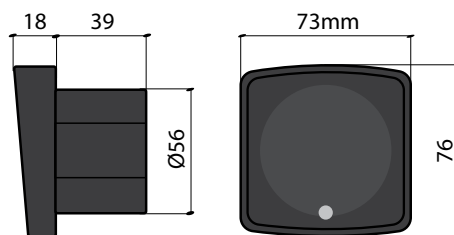


Interchangeable with the most widely used recessed photocells on the market.

SW50 is a photocell for recessed mounting with an estimated range of 20 mt. Its dimensions and the shape of the recess bracket make this photocell a great alternative to the existing models on the market.

### TECHNICAL DATA

Power supply: 12/24 Vdc/ac  
Absorption: 35 ma  
I.R. wave length: 950 nm  
Operating temperature: -20° to +60° C  
Relay capacity: 1A – 24V  
Synchronized mode: only with alternating voltage  
Modulation frequency: 1500 Hz  
Range: 20 m



APE - 528 / 2022

**SW50**  
Photocell for  
recessed mounting

## PS24

Power supply unit 230/24V - 0,5A - 12W



### Handiness

- Designed for 3 modules flush mounting box housing
- Status LED for output signal
- Connection with screw terminals

**ErP 2009-125-CE Directive**

**EN 60950-1; EN 61000-4-2; EN 61000-4-4**

APE - 143 / 0024

**Power supply unit**  
**PS24**

### Efficacy and protection

- Stabilized output
- Adjustable output voltage
- Switching technology
- Extended range 100:240 operation
- Electronic protection against overcurrent and/or short circuit
- Grills for internal components ventilation

### TECHNICAL DATA

AC input voltage : 100-240 Vac  
Output voltage: 24 Vdc  
Rated c/out current: 0,25-0,13 A  
Output current: 0,5 A  
Dimensions: 56 x 32,5 x 56 mm  
Weight: 0,06 kg

### Application examples:

- Home automation
- Cameras
- Sensors
- Constant voltage LED
- Electronic circuits

# CERTIFIKO

compliant to  
EN-12453  
EN-16005  
EN-60335-2-95  
DHF TS 011-012  
ASR A1.7



**Presa USB:** per scaricare le misure memorizzate dallo strumento al software BLUE FORCE.

**Firmware:** aggiornabile in modalità wireless

**Batteria:** ricaricabile, agli ioni di litio

**Measures will be automatically sent through GSM.** Thanks to GSM interface, it communicates with every device connected to the net without any compatibility problems (pc, tablet, smartphone)

**Measurement point storage:** it is possible to assign the reference of the measurement point "in situ," according to the standards

**Parameter evaluation according to EN12453:** with a simple setting, it is possible to obtain the evaluation of measurements according to that standard (passed / failed test)

**BlueForce software:** free, included with the tool. Guidance on performing force tests according to the standard, visualization of impact curves, management customer/plant data base.

## Cloud area access

- included always: viewing measurements and graphs on mobile devices
- included 1st year: compiling documentation for compliance and technical file



## KIT BLUE FORCE SMART PRO

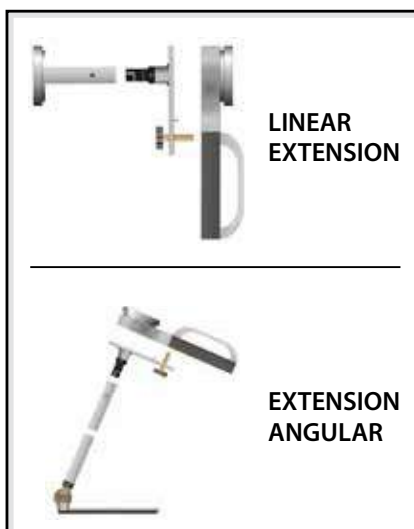
The KIT contains:

- BLUE FORCE SMART PRO instrument
- Linear extension cable (sizes of 300 and 500mm)
- USB cable for connection to PC (standalone use)
- hexagonal wrench for handle disassembly
- 1 year subscription to the BLUE FORCE CLOUD web portal for wireless use via GSM

## TECHINICAL DATA OF BLUE FORCE SMART PRO

- power: not removable battery Li-ION 650mAh - chargeable through USB 5Vcc 500 mA
- local memory capacity: 80 tests
- force acq. interval: 6 sec, 1KHz sampling
- strenght measurement range: 0-2000 N (mechanical stop at about 2100 N)
- strenght measurement resolution: 1 N
- dynamic time measurement resolution: 0.01 sec
- maximum force measurement error:
  - range from 25-400 N : +/- 0.5% F.S.
  - range from 400-1000 N: +/- 1% F.S.
  - range from 1000-2000 N: +/- 2% F.S.
- GPS/GLONASS satellite receiver
- quad band GSM/GPRS modem radio interface: GSM850MHz, EGSM900MHz, DCS1800MHz, PCS1900MHz
- Bluetooth V.3.0 radio interface
- USB interface: V.2.0 specification compliant
- compliance: CE-EMC (TUV Rheinland)
- dimensions: 280x80x50mm (about 1.6kg)

## Accessories: ask to client service



LINEAR  
EXTENSION

EXTENSION  
ANGULAR

## MIC-50V001G-PL



KIT BLUE FORCE SMART



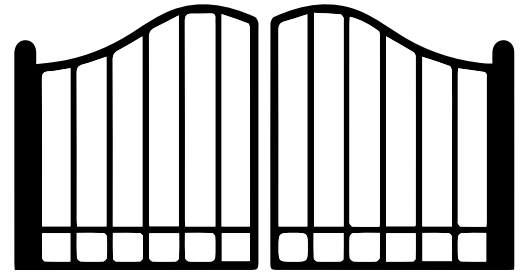
# SECURE YOUR MOTORIZED LOCKS

## European Standards - Automatic Doors and Gates

**The Guidelines and Technical Standards regulating the construction and marketing of automatic and/or motorized gates and doors are numerous and continuously updated by the technical commissions for European legislation.**

GUIDELINES are European laws that once “transposed” by individual states become national laws.

TECHNICAL STANDARDS define the minimum safety requirements and criteria for the construction imposed by the Directives.



### Main Directives:

- 305/2011/EU - Construction Products Regulation
- 2006/42/EC - Machinery Directive
- 2014/35/EU - LVD Low Voltage Directive
- 2014/30/EU - EMC Electromagnetic Compatibility Directive 2014/30/EU
- 2014/53/EU - R&TTE Radio Equipment Directive
- 2011/65/EC - RoHS Directive II - Restrictions on the use of hazardous substances

### Technical Standards - Automatic Doors and Gates:

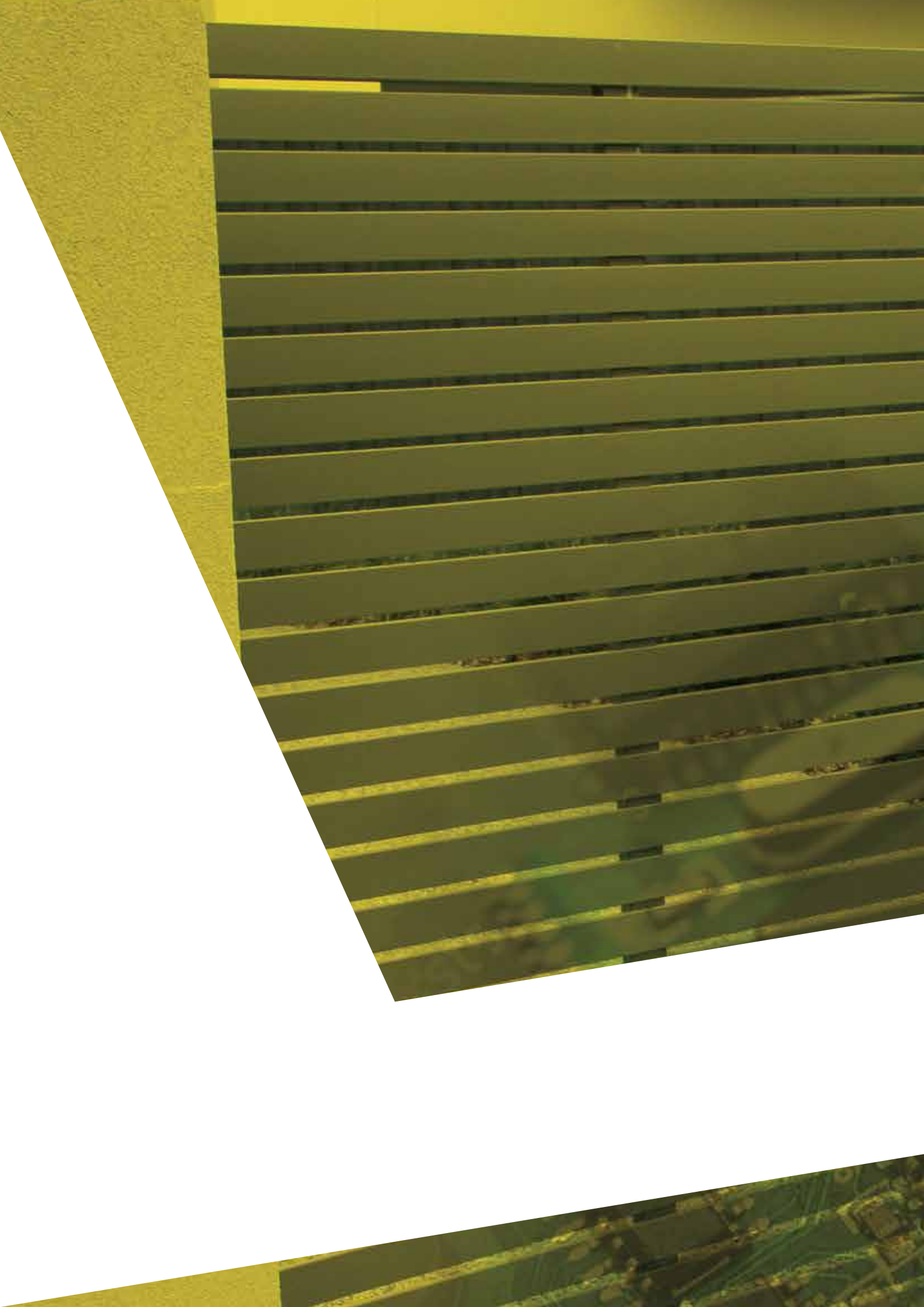
- EN 12453 - Industrial, commercial and garage doors and gates - Safety in use of motorized doors, Requirements and test methods
- EN 16005 - Motorized pedestrian doors - Safety in use, Requirements and test methods.
- EN 60335-2-95 - Particular requirements of vertically moving garage doors for residential use.
- EN 12978 - Industrial, commercial and garage doors and gates - Safety devices, Requirements and test methods
- EN 12100 - Machine safety - General principles of design - Risk assessment and risk reduction
- EN 13856-2 - Machine safety - Pressure-sensitive protective devices, Part 2 General principles of design
- EN 13857 - Machine safety - Safety distances to prevent danger zones being reached by upper and lower limbs
- EN 13849-1 - Machine safety - Safety-related parts of control systems, Part 1: General design principles

### Product Standards - Doors and Gates:

- EN 13241 - Industrial, commercial and garage doors and gates - Performance characteristics.
- EN 12604 - Industrial, commercial and garage doors and gates - Mechanical aspects, Requirements and test methods
- EN 12433 - Industrial, commercial and garage doors and gates - Terminology, Types of doors
- EN 12424 - Industrial, commercial and garage doors and gates - Wind load resistance, Classification
- EN 12444 - Industrial, commercial and garage doors and gates - Resistance to wind load, Tests and calculations
- EN 12425 - Industrial, commercial and garage doors and gates - Resistance to water penetration, Classification
- EN 12489 - Industrial, commercial and garage doors and gates - Resistance to water penetration, Test method
- EN 12426 - Industrial, commercial and garage doors and gates - Air permeability, Classification
- EN 12427 - Industrial, commercial and garage doors and gates - Air permeability, Test method
- EN 12428 - Industrial, commercial and garage doors and gates - Thermal transmittance, Requirements for calculation
- EN 16034 - Pedestrian, industrial, commercial, and garage doors - Performance characteristics and fire and/or smoke resistance

### Standards under upcoming revision (2021-2022):

- EN 13241 - Industrial, commercial and garage doors and gates - Performance characteristics
- EN 12453 - Industrial, commercial and garage doors and gates - Safety in use of motorized doors, Requirements and test methods
- EN 16005 - Motorized pedestrian doors - Safety in use, Requirements and test methods
- EN 12978 - Industrial, commercial and garage doors and gates - Safety devices, Requirements and test methods



# Universal control units

Control unit and accessories for motorized rolling shutters SH230 / A48

Central unit with remote control-controlled electric brake SH230POWER / A49

Control unit for motorized rolling shutters with integrated courtesy light SH230LUX / A50

Control unit 051D / A52

Universal control unit for automations 12.24D / A54

Central control unit for sliding gates K82 / A55

**Abexo**<sup>®</sup>  
AUTOMATION ACCESSORIES



# SH230



**COMPATIBLE WITH MANY  
TRANSMITTERS 433 MHZ (\*)**



(\*) see user manual

**APE - 528 / 0244**

Kit control unit SH230 +  
SH4 transmitter

SH230 is an electronic control unit with an **integrated receiver** compatible with all the 433 Mhz fixed codes and some 433 Mhz rolling codes (\*). It is easy to install and to program: it has **TWO inputs for command devices** and 2 safety inputs (1 with normally closed contact and one for safety edges 8,3 kΩ).

SH230 can be programmed in **4 different operating modes** and it is possible to set the pause and working time. The front part of the box is ready to be used as a control panel thanks to the optional board; this board will activate the capacitive external buttons when glued in the internal part.

## Technical data:

- Power supply: 230 Vac 50hz +/-10%
- Motor power: 1350W
- Working time: adjustable, max 2 minutes - 30 seconds
- Automatic closing time: adjustable, max 3 minutes
- Safety edges input: 8k2 ohm or NC contact
- Code combinations: 72 million
- Radio code programming: self-learning
- Frequency: 433,92 Mhz
- Sensibility: greater than -100dbm
- Antenna: integrated
- Operating temperature: -10°C, +70°C

**ELECTRO-LOCK  
AND  
KEY-SWITCH**



**PHOTOCELLS**



**APE - 528 / 0230**



SH230 – control unit for  
shutters with box

**APE - 528 / 3040**



SH4 - 4-channel transmitter  
channels frequency 433.92  
MHz for SH line



Universal control units/

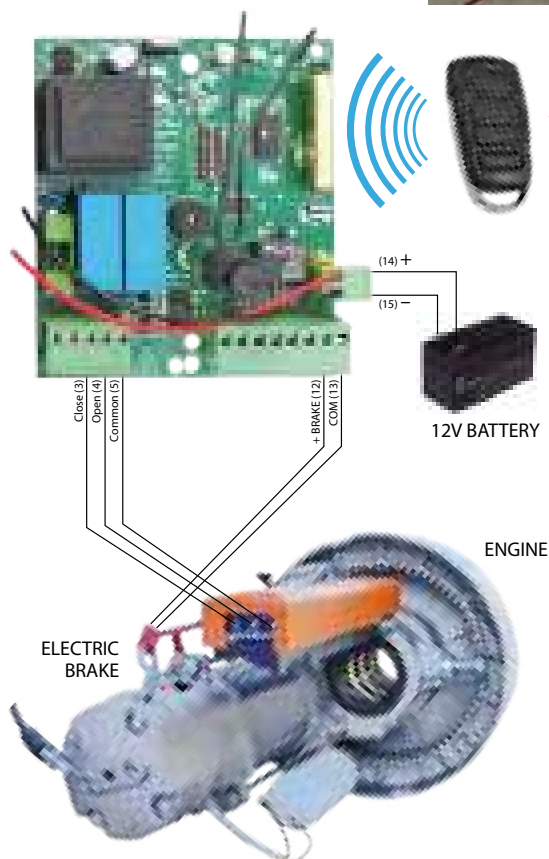
Central unit with remote control-controlled electric brake  
for motorized rolling shutters

# SH230POWER

NEW



**SH230POWER** is an electronic control equipment with integrated receiver compatible with all 433 Mhz fixed codes and some 433 Mhz\* rolling codes. Its special feature is the ability to be able to drive and unlock the electric brake of shutter motors even in case of 230V power failure thanks to a backup battery. The function is activated by pressing 2 keys simultaneously for more than 3 seconds.



#### Technical Characteristics:

- Power supply: 230 Vac 50 +/-10%
- Motor power: 750 W
- Operating time: programmable max 2 minutes 30 seconds
- Automatic closing time: programmable max 3 minutes
- Electrobrake release via radio fixed 60 seconds
- Safety edge input 8K2 or flush NC
- Code combinations: 72 million codes
- Radio code programming: self-learning
- Frequency: 433.92Mhz
- Sensitivity: greater than -100dbm
- Reception range: standard 50m (10m man present)
- Antenna: built-in
- Battery: 12V 1.2Ah (included)
- Dimensions: 145x195x50mm
- Operating temperature: 0°C, +70°C

APE - 528 / 0225



SH230POWER - Central unit for motorized rolling shutters

APE - 528 / 3040



SH4 - 4-channel transmitter channels frequency 433.92 MHz for SH line

PHOTOCELLS



(\*) See instructions for compatible models

# SH230LUX



Developed on the basis of the previous control unit, SH230, this special version is equipped with an integrated courtesy light while maintaining the main features of the base version. Its semi-transparent box allow to use SH230LUX as an applique.

Thanks to a special setting of the DIP-SWITCH, it is possible to switch on the light without opening the shutter.

The box can be customized with your logo. Moq 50pcs

## Technical data:

- Power supply: 230Vac +/-10%
- Motor power: 1350W (1HP)
- Working time: adjustable from 0,5 min to 2 minutes.
- Pause time: adjustable to 3 minutes max.
- Courtesy light time: adjustable to 3 minutes max.
- Safety edge input: 8k2 ohm or NC contact
- Courtesy light output: 12 V
- Flashing light output: 12 V
- Codes combination: 72 millions
- Storable transmitters: 25
- Transmitters programming mode: self-learning
- Frequency: 433.92 Mhz
- Sensitivity: > 100dbm
- Antenna: integrated
- Operating temperature: -10°C, +70°C
- Application: standard 50 mt - dead man 10 mt

APE - 528 / 1230



SH230LUX - Control unit for motorized rolling shutters

APE - 528 / 1244



KIT - control unit for motorized rolling shutters SH230LUX + tx SH4

APE - 550 / 1034



ALF6BT  
yellow lens  
flashing light,  
LOW TENSION

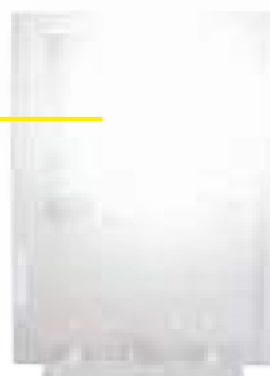
APE - 528 / 3040

SH4  
4-channel  
transmitter channels  
frequency 433.92  
MHz for SH line





led chip  
for courtesy  
light



Thanks to the semi-transparent box  
you can use the SH230LUX control  
unit as an applique (wall lamp)



SH4

Check out the  
compatible transmitters



<https://bit.ly/36TOJHE>

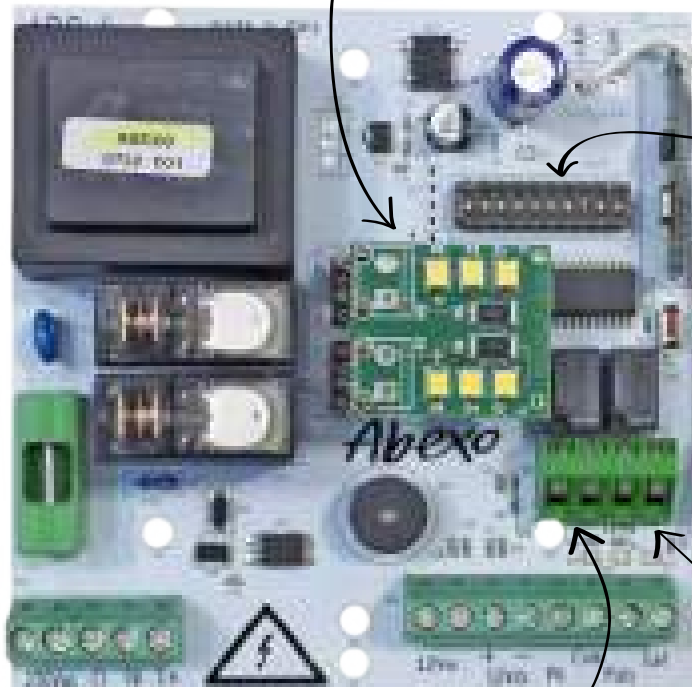
Radio module 433,92 MHz

Led chip  
6 leds courtesy  
light

#### DIP-SWITCH coding

1. automatic closure
2. pause time set up  
(max 180 sec.)  
opening/closing time set up  
(max 150 sec.)  
courtesy light time set up  
(max 180 sec.)
3. "1 or 3 buttons" mode  
1 button = "step-by-step" mode  
3 buttons = "up-stop-down" mode  
(recommended for dead man function)
4. dead man function on closure
- 5/6. activate/deactivate photocell and wired or 8k2  
safety edge
7. n.2 8k2 safety edges connected in series / n.1 8k2  
safety edge
8. codes memory capacity  
(24 hcs tx with key / 44 tx different codes)
9. courtesy light without shutter opening control
10. courtesy light timing set up (max 180 sec.)

↑ UP  
STOP  
↓ DOWN



APE - 550 / 1036.W  
ALF6W



Output for  
courtesy  
light

Output for  
flashing light

APE - 550 / 1034  
ALF6BT




# 051D

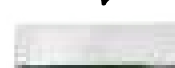
051D is a universal control unit with an integrated universal 433 Mhz receiver (reads and stores all the 433 Mhz fixed codes and some 433 Mhz rolling codes). In order to be universal with all the motors, the 051D control unit allow to adjust the electronic force and the electronic anti-crush system. These parameters can be adjusted for each motor and also differently for the slowing movement.

The inputs can be set as positive or negative (common). The PRIORITY DIAGNOSTIC integrated function will simplify installation and maintenance: through the display is possible to see the error messages according to priority, guiding the user step by step through the solution of every problem, showing the single error codes on the display one at a time.

**Compatible with some 433,92 MHz transmitters**




**433 MHZ RECEIVER**



**Display for easy setting**

**4 operating modes**



**#INDEPENDENT REGULATION OF THE MOTORS**  
Diagnostic: wiring of motors

MOTOR A			DESCRIPTION
R1	14	***	WORKING TIME
R2	7	>1:1	SLOWDOWN TIME
R3	0,8	***	START UP TIME
R4	0,6	***	DELAY AT CLOSING
R5	0,6	%	STANDARD MOTOR FORCE
R6	10	%	SLOWDOWN MOTOR FORCE
R7	n	%	STANDARD OBSTACLE DETECTION THRESHOLD
R8	n	%	SLOWDOWN OBSTACLE DETECTION THRESHOLD

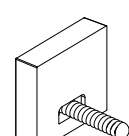
  

MOTOR B			DESCRIPTION
b1	14	***	WORKING TIME
b2	7	>1:1	SLOWDOWN TIME
b3	0,8	***	START UP TIME
b4	0,3	***	DELAY AT CLOSING
b5	0,6	%	STANDARD MOTOR FORCE
b6	10	%	SLOWDOWN MOTOR FORCE
b7	n	%	STANDARD OBSTACLE DETECTION THRESHOLD
b8	n	%	SLOWDOWN OBSTACLE DETECTION THRESHOLD


**#ADJUSTABLE INPUTS**  
Automatic exclusion of NON-connected inputs and relative automatic activation

**#INPUT DIAGNOSTIC**  
Signal and priority management of the problems found. Once the resolution of the errors is completed, the control unit can signal a new error or show "ready-to-go"

**Limit switch**



**Electric lock**



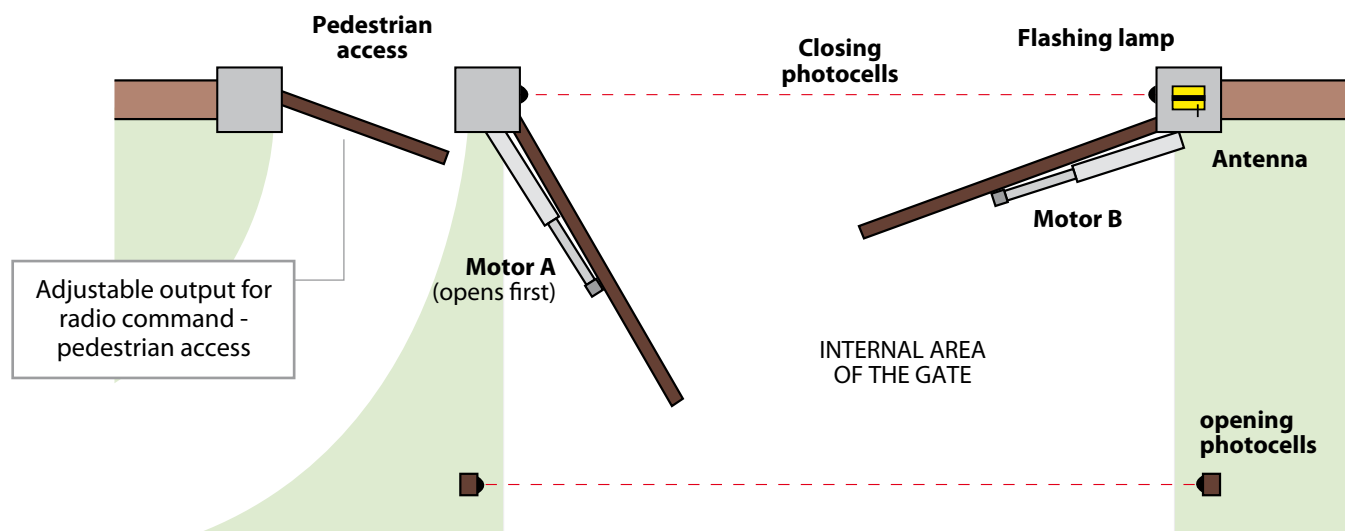
**#UNIVERSAL:** inputs can be wired in positive common (+) and negative common (-). It can be set through a parameter from the menu

**Technical features**

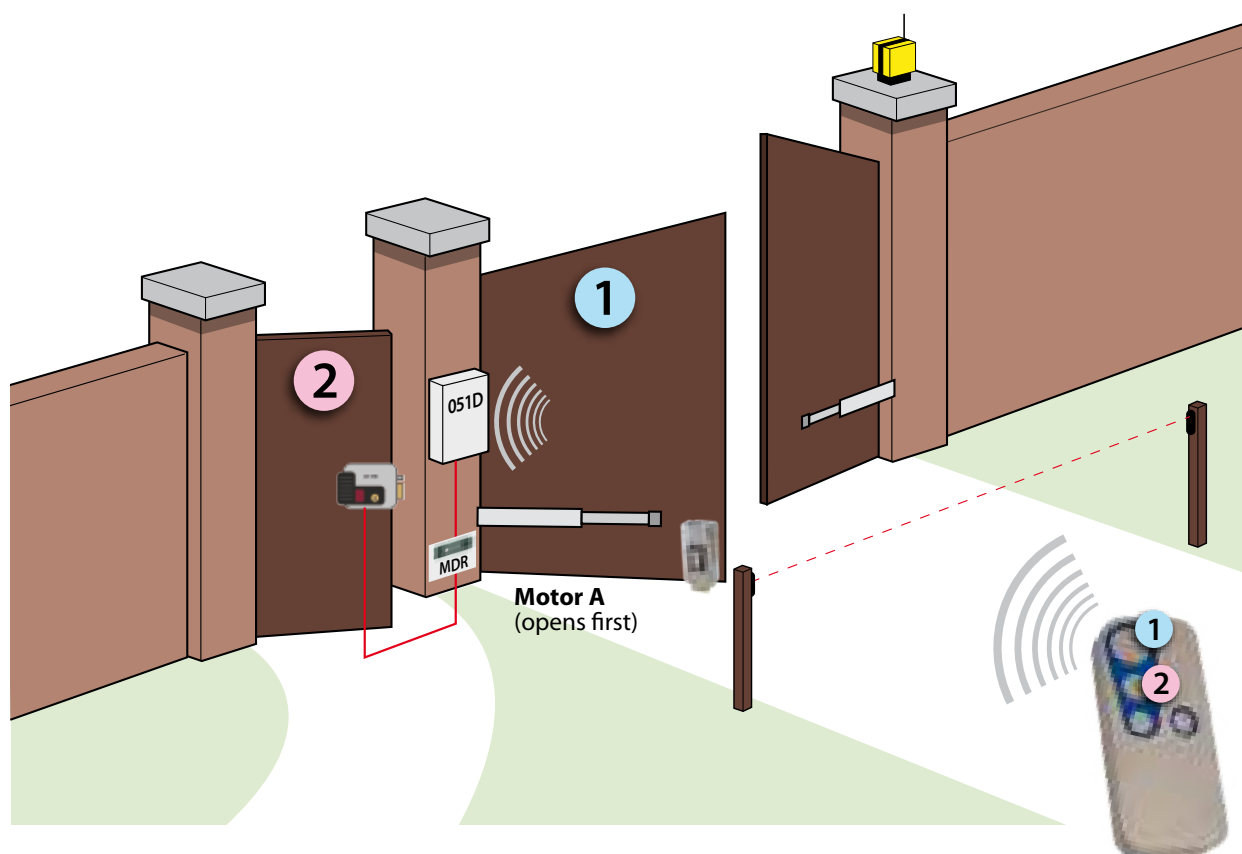
- 600W for each engine
- Flashing lamp max 60W 230Vac
- Accessories power supply 24Vdc max 250mA
- Board power supply 230Vac
- Board dimensions 166x120x36 mm



## TYPICAL SWING GATE INSTALLATION



The system must have a physical limit in the opening and closing movement



**APE - 570 / 0510**



**051D**  
universal  
control unit  
with  
receiver

**APE - 570 / 0511**



**051D**  
universal  
control unit  
without  
receiver

**APE - 570 / 0022**



**MDR** - optional board for  
additional outputs

# 12.24D

12.24D is a universal control unit for automations with 2 engines (low tension 12V-24V Vdc).

The integrated radio 433 Mhz receiver allows to store all the fixed codes and the 12 and 24 bit HCS codes.

It is possible to set all the parameters to be compatible with all the engines, even coming from different brands and types.

The electronical components comes with an integrated power supply unit and can manage 12 and 24 Vdc power supply.

Inputs have the connection for two different and ajustable Start. Thanks to the display, the programming of inputs, outputs and operating modes - available in several languages. The control units has 2 outputs to manage the flashing lamps, courtesy and traffic lights and 5 possible operating modes: step-by-step, automatic, automatic with possible earlier closing, condominium and condominium with possible earlier closing.

The 12.24D control unit also has special menu/functions for specific installations: clock, ramp, automatic door, synchro, parking. Through the OBSTACLES menu it's possible to manage currents and intervention time, thanks to the MONITOR menu that reads the current of the motor and the frequency of the encoder during movement.

## Output engines

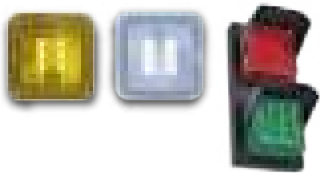
Manage n.2 motors

(12-24Vdc) with:

- slowing down controls
- motor power controls
- test: engine overload and contacts

## Output flashing lamps / traffic light

control of 2 lighting systems (flashing lamp + courtesy light) or traffic light



## Photocells input

manages two pairs of photocell with autotest



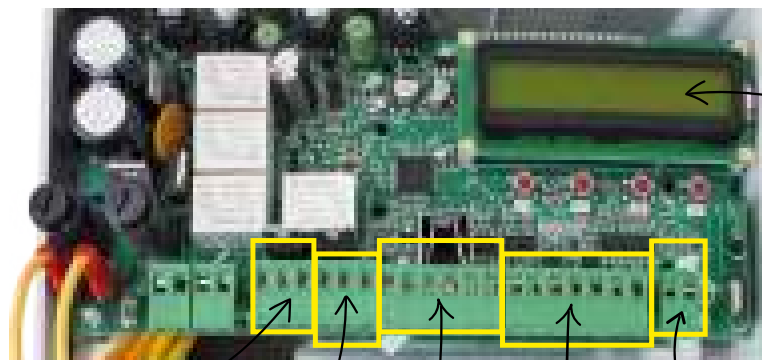
**Input encoder and limit switch**  
manages double encoder and limitswitch

## Input external antenna

Integrated radio module (433 Mhz) and input for antenna

## Input commands

2 adjustable start inputs (pedestrian START + START, OPEN + CLOSE, STOP)



**Display for programming**  
with integrated clock

## SPECIAL FUNCTIONS

Synchro, parking, traffic light, ramp, clock, automatic door, and more...

## 5 OPERATING MODES

Stepper, automatic, automatic with earlier closure, condominium, condominium with earlier closure

## TECHNICAL FEATURES

- Input board: 12-24 Vac
- Output engine: 12-24 Vdc
- Max power: 150 W each
- Battery input: 12-24 Vcc
- Integrated battery-charger buffer
- 2 adjustable start inputs
- Protection against common and input electrical ground
- Integrated radio module (433 Mhz) and input for external antenna
- 5 operating modes
- Dimensions board: 186x85x35 mm

### APE - 150 / 8711



**12.24D  
only universal board**

### APE - 150 / 8710



**12.24D board + box and  
power supply unit 24V**

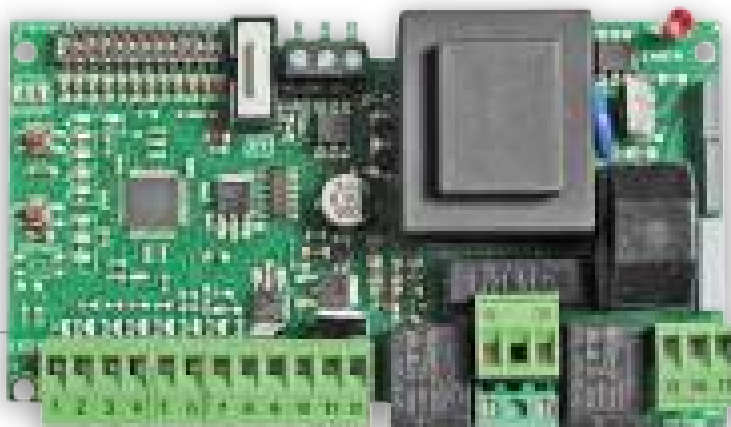
# K82

NEW

The **K82** control unit enables the retrofitting of existing sliding gate automations also using the 8K2 Safety Edges for both opening and closing inputs (up to 3+3).

The high functions that improve the operation of old control units are soft start, slowdown electronic and brake.

2 optional outputs enrich the possibilities.



## Main functions

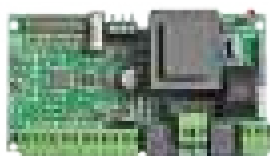
- Fault signals via LEDs
- Adjustment of motor force in normal running
- Adjustment of pause time (automatic closing)
- Photocell test
- Motor testing
- Self-learning of radio codes with start function
- Self-learning of radio codes with stop function
- Self-learning of radio codes with function of pedestrian
- Radio code self-learning with function of quick closing
- Intelligent multifunctional inputs
- Connection of No.3 8K2 safety edges in opening
- Connection of no.3 8K2 safety edges in closing
- Pedestrian opening
- Soft-start
- End-of-stroke slowdown
- Electronic motor brake
- No.2 optional auxiliary outputs

## Technical Characteristics:

- Power supply: 230Vac
- Max managed motor power: 1000W
- Accessory power supply: 24Vdc 200mA
- Flasher output: 24Vac, 5 Watts
- 230Vac independent fixed output (flasher)
- Frequency: 433.92Mhz
- Storable radio codes: 100
- Dimensions: 137x78x33mm
- Operating temperature: -10°C, +70°C

**4 LOGICS OF OPERATION**  
automatic, condominium, step-by-step,  
step-by-step with automatic closing

APE - 570 / 0740



**K82**  
Central control unit  
for sliding gates

APE - 570 / 0022

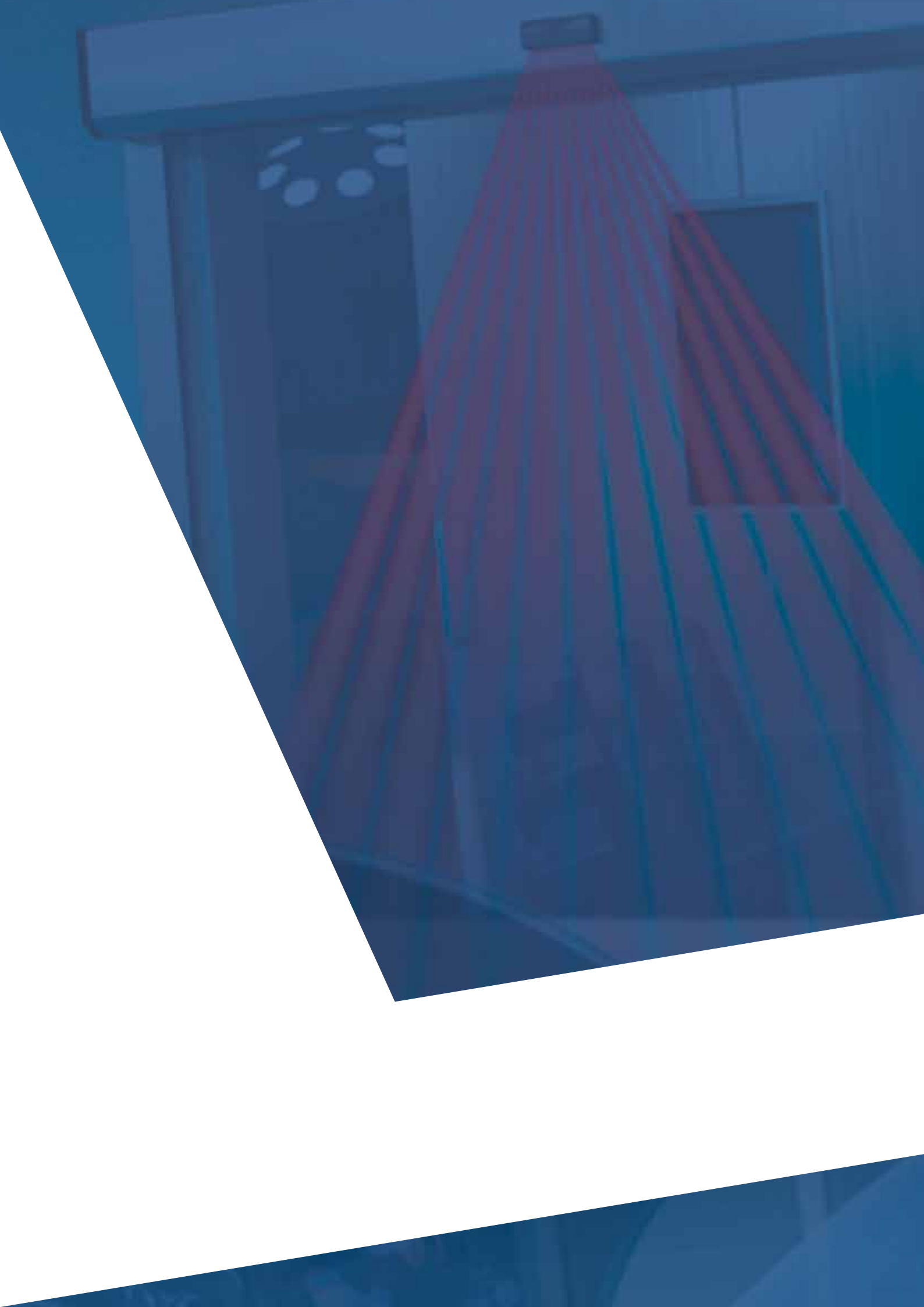


**MDR**  
Optional board for additional  
outputs 4.6x1.7cm

APE - 570 / 0023



**K82 RR**  
433.92 MHz radio module  
for K82 control unit





# Detectors, Pedestrian and industrial Sensors

Metal mass detectors MAGNETIX / A58

Microwave detector for industrial door control RM620 / A59

Industrial door sensors (opening and safety) KABUTO / A60

Sensors for automatic doors / A61

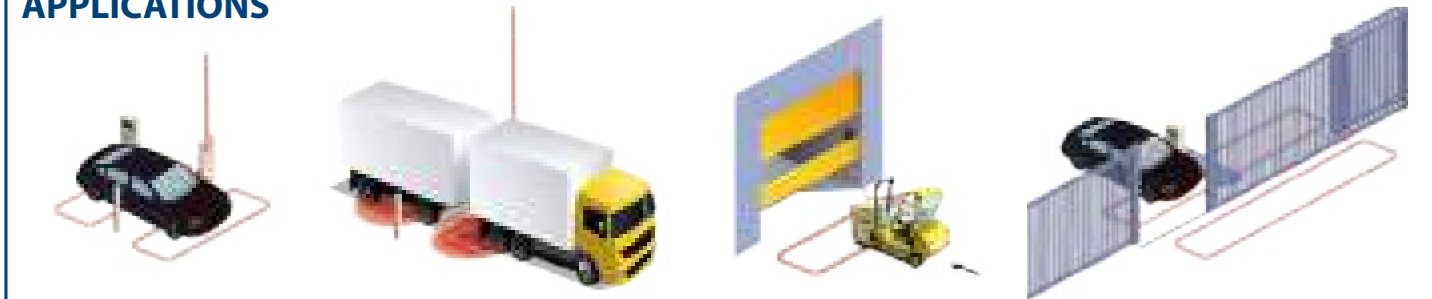
**Abexo**<sup>®</sup>  
AUTOMATION ACCESSORIES

# MAGNETIX

MAGNETIX is an electronic metal detector designed to detect the transit or presence of a vehicle on a specific area defined by a magnetic loop laid underground.

MAGNETIX family consist of a mono-channel BASIC detector with DIN rack mounting .

## APPLICATIONS



## FEATURES AND BENEFITS

- High sensitivity with the possibility of continuous adjustment
- Different settings of sensitivity in the case of dual-channel
- Setting of continuous presence for an unlimited time
- External temperature compensation to ensure accurate safely detection in case of long-term employment of the loop



## BASIC

Single Channel  
detector 12-24V  
DIN rail mounting



Power supply: 12-24V ac/dc or 120Vac or 12-24V

Power consumption: 80mA

Inductance of the loop: from 30μH. Ideal: from 80μH to 500μH

Wiring the coil: max 100m min 50x 1.5 square meters plot /m

Resistance of the loop: <8Ω with power cord

Frequency range: 20-80 kHz on 4 levels

Sensitivity range: from 0.01% to 0.65% (Δf/f) on 4 levels

Output relay: relay OUT1 SP 5 (1) A 250Vac

relay OUT2 SP 5 (1) A 250Vac

Type of detection: pulse (100ms) and / or presence for each output

Connections: extractable terminal

Report: 1 Red LED Green LED + 1

Data storage: on EEPROM

Housing: plastic 111x28x92, 5mm (alim.12-24Vac/dc)

plastic 111x38x92, 5mm (alim.120 or 230Vac)

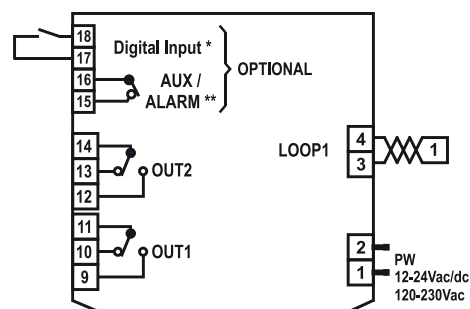
Mounting: DIN - OMEGA guide

Front protection: IPOO

Operating Conditions: ambient temperature: -10°... 50°C

storage temperature: -20°... 70°C

Relative humidity: Environment 30/80% noncondensing



\* DIGITAL INPUT external reset

\*\* AUX/ALARM the contact is closed in the absence of power supply in the fault condition

**APE - 550 / 1224**

## BASIC-DGL

12-24V detector 2  
channels for DIN rack



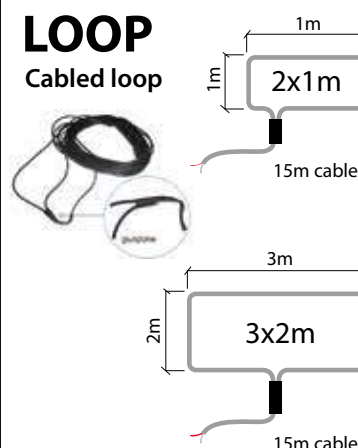
Technical details like **BASIC**, but more:

- 10 sensitivity levels
- Selection of the type of action: just 1 loop / 2 independent loops / with or without direction signal
- Display of every loop working frequency
- Stability check of loop frequency to test the loop correct installation
- Dynamic release (patent pending)

**APE - 550 / 1230**

## LOOP

Cabled loop



**APE - 590 / 0062**

**LOOP 6 - cabled loop  
2mt x 1mt**

**APE - 590 / 0063**

**LOOP 10 - cabled loop  
3mt x 2mt**

# RM620



Unidirectional/bidirectional,  
X band microwave sensor for  
industrial door

Planar technology  
Signal elaboration  
with microprocessors



Recognition of the  
direction of the movement

Programmable functions

High resolution of the  
covered area

Internal orientation

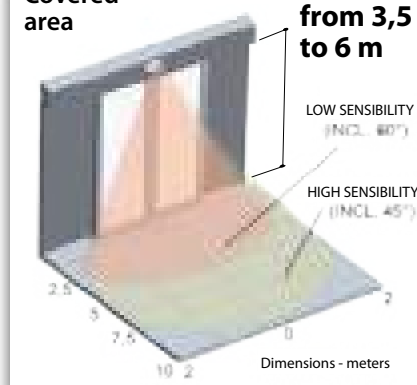
MICROWAVE  
technology



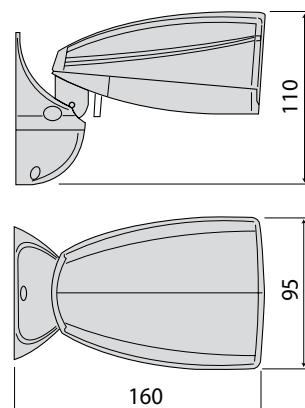
## TECHNICAL DATA

- Power: 12/24ac/dc
- Absorption: 50 mA max
- Frequency: 9,90 GHz
- Degree of protection: IP66
- Output power:  $\leq 14$  dBm
- Relay contacts: 1A - 24Vac/dc
- Time relay control: 1-6 sec adjustable
- **Maximum height of installation: 6m**
- **Speed of detection: 0,1 m/s minimum**
- Range: 1-10 m Adjustable
- Vertical Direction: 0-60°
- Horizontal Direction:  $\pm 45^\circ$
- Maximum power consumption: 40mA
- Transmit Power (EIRP):  $\leq 20$ dBm
- Operating Temperature: -20°C to +50°C
- Dimensions: 160 x 95 x 110 mm

Covered  
area



Dimensions



unidirectional/bidirectional, X band sensor

**APE - 551 / 0620**

Microwave sensor for  
industrial doors  
RM620



# KABUTO

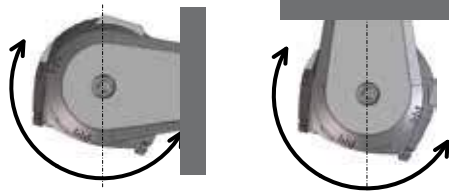
KABUTO is a dual technology sensor microwave (opening) and infrared (security). These features, combined with the anti-vibration technology, make KABUTO ideal for all installations on industrial doors.

Double  
technology



The wide range of installation height (3.5 to 6.5 m) also makes the sensor extremely versatile.

Parallel traffic filtering and detection one-way technology significantly reduce the time to open the door, providing good energy savings.



Thanks to the dual function, it is possible to install the sensor either on the wall or ceiling.

Installation  
from 3,5 m to 6,5



Detection method: motion = microwave (24.15 GHz K band)  
+ active resection = infrared

**Installation height: 3.5 m to 6.5 m**

Presence timer: 30 s, 1, 2, 5, 10, 20 min, 1, 2 hours or infinite

Power supply: 12-24 Vac/Vdc  $\pm 10\%$  (50/60 Hz)

Degree of protection: IP65

Power consumption: 12 Vca = 2,5 VA max / 24 Vca = 3,3 VA max /  
12 Vcc = 150 mA max / 24 Vcc = 80 mA max

Output 1: infrared relay Opto (not Pole)

Output 2: radar relay Opto (not Pole)

Voltage: 48 Vdc max

Current: 300 mA max (resistive load)

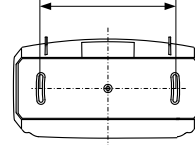
Weight: 1,3 kg

Operating temperature: -20 to +60 °C

Dimensions: 230 x 140 x 115 mm

pitch of  
mounting  
standard

165 mm



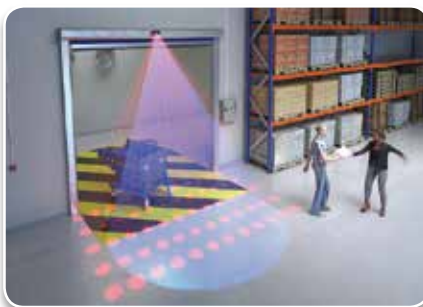
Easy configuration of  
settings and  
parameters via  
remote control  
(mandatory)



Door detection  
and opening



Parallel traffic  
filter for  
vehicles and  
people



Detection and  
security of  
objects/people  
present in the area  
surrounding



APE - 787 / 0250



KABUTO-RC  
Remote control for  
KABUTO radar

APE - 787 / 0225



KABUTO - Radar with  
double technology



## SSR-3/BL

Dual technology activation and monitored safety sensor With exclusive "Door Learn" technology



Energy-saving sensor capable of ensuring the activation of pedestrian doors and an unprecedented level of security unprecedented at mounting heights no to 3.2m.

Technologie: Mikrowelle + Aktive Infrarot

Versorgungsspannung: 12-24 Vcc/Vca  $\pm$  10%

Stromversorgungsabsorption: 80 mA (24Vcc)

Einbauhöhenbereich: regulierbar 2000-3200 mm

Temperaturbereich: bis -20°C zum 60°C

Schutzgrad: IP54

Abmessungen: 25 x 60 x 43 mm



EN16005

HOT - SSR - 3/BL

SSR-3 Black color

accessories available  
for SSR-3/BL

HOT - WC - IR/BL



Rain cover

HOT - UTB/BL



Lower mounting bracket

HOT - HA - 130



Bracket for recessed  
mounting



## HR100-CT/BL

Advanced unidirectional detection sensor with monitored security system and exclusive "Door Learn" function



Extraordinary state-of-the-art sensor capable of capable of ensuring the activation of doors pedestrian doors and unprecedented security at mounting heights no to 3m.



EN16005

HOT - HR100 - CT/BL

HR100CT Black color

accessories available  
for HR100-CT/BL

HOT - WC - IR/BL



Rain cover

HOT - UTB/BL



Lower mounting bracket

HOT - HA - 121



Bracket for recessed  
mounting

- Technology: active infrared reflection

- Supply voltage: 12-24 Vdc/Vac  $\pm$  10%

- Current consumption: 60 mA (24 VDC)

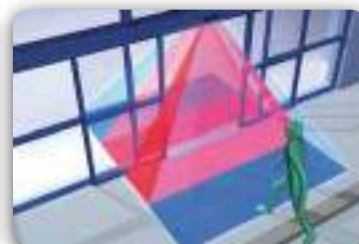
- Installation height: adjustable 2000-3000mm

- Temperature range: -20°C to +60°C

- Output: Open collector 7.5mA (Min) load resistor

- Degree of protection: IP54

- Dimensions: 230 x 70 x 44 mm



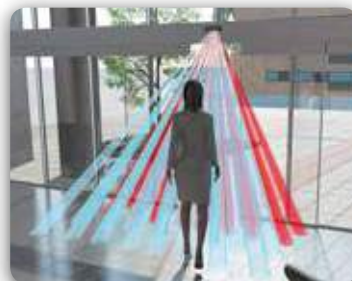
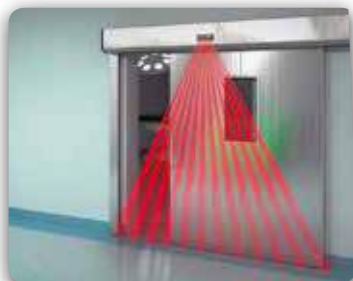
## 3H-IR14C/BL

Activation and safety of sliding doors  
in a compact sensor size,  
according to EN16005



Infrared technology, dual relay output.

- **Technology:** active infrared resection
- **Supply voltage:** 12-24 Vdc/Vac  $\pm$  10%
- **Current consumption:** 40 mA (24 VDC)
- **Installation height: 3000mm max**
- **Temperature range:** -20°C to +60°C
- **Output:** SAFETY = NO relay contact / ACTIVATION = NO relay contact
- **Degree of protection:** IP54
- **Dimensions:** 210 x 59 x 28.5 mm



EN16005



HOT - 3H - IR14C/BL

3H-IR14C Black color

accessories available  
for 3H-IR14C/BL

HOT - WC - IR/BL



Rain cover

HOT - UTB/BL



Lower mounting bracket

HOT - HA - 14



Bracket for recessed  
mounting

## HR50-UNI/BL

Flexible infrared sensor with  
directional sensitivity



Activation sensor for sliding doors and swing doors robust  
and elegant suitable for mounting heights up to 4m.

- **Technology:** active infrared reflection
- **Supply voltage:** 12-30 Vdc, 12-24 Vac
- **Current consumption:** 40 mA (24 VDC)
- **Installation height: 4000mm max**
- **Temperature range:** -30°C to +55°C
- **Output:** PhotoMOS (resistance Max. 35)
- **Degree of protection:** IP54
- **Dimensions:** 120 x 70 x 41.5 mm



HOT - HR50 - UNI/BL

HR50-UNI Black color

accessories available  
for HR50-UNI/BL

HOT - WC - HR50



Rain cover



## INFRA2

Infrared Barrier

- Fixed optics Ø10,6mm
- Power supply voltage: 12-24V  
AC  $\pm$  10% - 12-24V DC -5/+30%



APE - 737 / 0002



INFRA2  
photocells with amplifier

APE - 737 / 0003



Additional optics for  
photocells

> Ask our customer service department  
the best solution for your needs

# Non-contact, touch and mechanical door opening buttons

Non-contact buttons J-WAVE, CLEARWAVE, AERWAVE, MTT-IR, MTT / A64  
Mechanical buttons PUSH PLATES / A66



## J-WAVE

Non-contact door opening sensor  
infrared

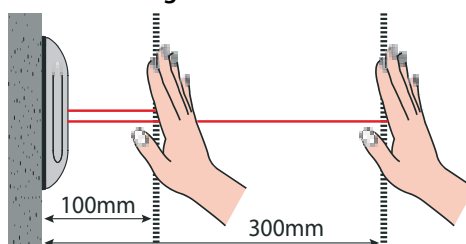
Infrared  
technology



Slim low-profile design switch with touchless technology that limits germ spread and improves accessibility in healthcare, retail, and commercial environments. Fast reaction time with ability to detect very fast movements in front of the switch. J-Wave is made of a robust polycarbonate material with a constantly illuminated allowing easy detection in dimly lit environments.



Detection range



- **Technology:** active infrared
- **Supply voltage:** 12-30 VDC, 12-24 Vac
- **Power consumption:** < 1.5W
- **Detection distance:** 100-300mm  $\pm$  30-50mm
- **Temperature range:** -20°C to +50°C
- **Output:** Relay contact (1A /30 VDC)
- **Degree of protection:** IP54
- **Dimensions:** 40 x 117 x 19,5 mm

**HOT-J-WAVE**

J-WAVE sensor



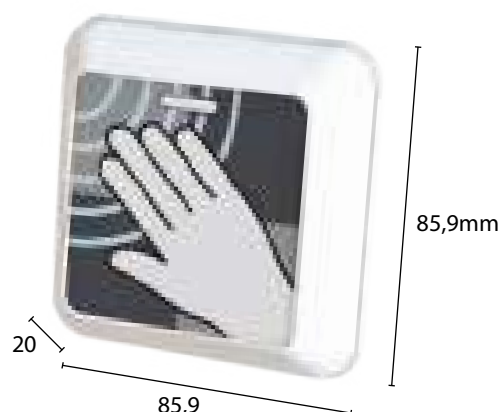
## CLEARWAVE

Non-contact door opening sensor  
microwave

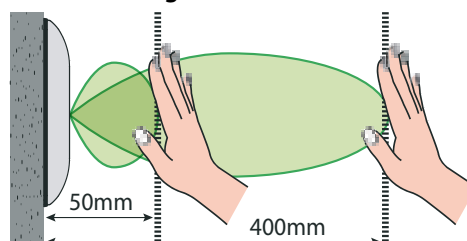
Microwave  
technology



Door activation switch with microwave non-contact designed for situations where hygiene is a factor of primary importance, such as clean rooms, environments used in the processing of food products and chemical industry applications.



Detection range



- **Technology:** microwave
- **Supply voltage:** 12-30 VDC, 12-24 Vac
- **Current consumption:** 40 mA (24 VDC)
- **Detection distance:** adjustable 50-400mm  $\pm$  30-50mm
- **Temperature range:** -20°C to +60°C
- **Output:** relay type 1C (one switching contact)
- **Degree of protection:** IP55
- **Dimensions:** 85,9 x 85,9 x 20 mm

**Stickers  
included**



Sticker option 1



Sticker option 2



Sticker option 3

**HOT-CLEARWAVE**

CLEARWAVE Sensor



## AER WAVE

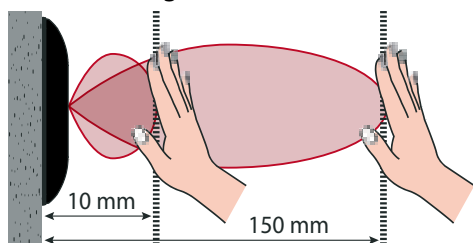
Infrared and wireless button for door opening without contact

- Technology: infrared and wireless
- Target: hand and/or object\*  
(\* the detection distance varies with the objects's colour)
- Response time: <1 sec
- Wireless transmission distance: max 10m (with receiver WR-24)
- Dimensions: 95 (A) x 95 (L) x 20 (P) mm
- Protection degree: IP65
- Power supply: n.2 batteries CR123A (included)
- Absorption: <0,5 mW/H
- Operating temperature: -20°C, +50°C



Included in the package no.2 badges

Detection range \*



For wireless installation combine with receiver WR-24 (sold separately)



It is possible to register up to 10 AER WAVE buttons on a single WR-24 receiver

**HOT - WR - 24**

Receiver WR-24

**HOT - AERWAVE**

Infrared and wireless button

## MTT-IR

Non-contact capacitive infrared button



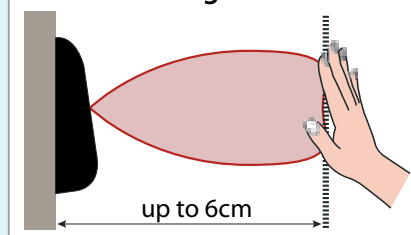
**XPR - MTTBK-IR**

Non-contact button

- Sensor type: infrared
- Surface mounting
- Black ABS material
- Sensing range adjustment: via dipswitch (max 6cm)
- Power supply 12/24 Vdc - Vac
- Light signaling (red/green/orange)
- Sound signaling (Buzzer settable with dipswitch)
- Anti-sabotage protection (Tamper)
- One relay output 1A at 24Vdc
- Relay operation: bistable mode or impulsive
- Free LED: programmable via dipswitch (auto) or external
- IP65 degree of protection
- Operating temperature: -20°C to +50°C
- Dimensions: 92x51x27 mm



Detection range



## MTT

### Capacitive touch button

- Surface mounting
- Black ABS material
- Backlighting (red/green for signaling consent)
- Sound signal at each touch
- One relay output 2A
- Power supply 12/24 V dc - 15/24 V ac
- Can be used as an opening, lighting and general start button
- Programmable impulsive timed or bistable output
- IP65 degree of protection
- Intuitive due to luminous signaling (also at night)
- Dimensions: 92x51x27mm



**XPR - MTTBK**

Touch button

## PUSH PLATES

### Opening with a simple push for every type of automatic door

- Made of stainless steel with anti-scratch treatment
- Water-resistant
- Dimensions of rectangular version: 120 (H) x 38 (W) x 40 (D) mm
- Dimensions of square version: 120 (H) x 120 (W) x 40 (D) mm
- Degree of protection: IP52
- Output contacts: dry (NO, NC, COM)
- Contact voltage: 42 Vac max
- Contact current: 0.5A max
- Operating temperature: -30°C, +55°C

For other shapes and models ask customer service



**APE - 790 / 0116**

PUSH TO OPEN - PBJ



**APE - 790 / 0116H**

PUSH TO OPEN - PBJH



**APE - 790 / 0119**

PUSH TO OPEN - PBS

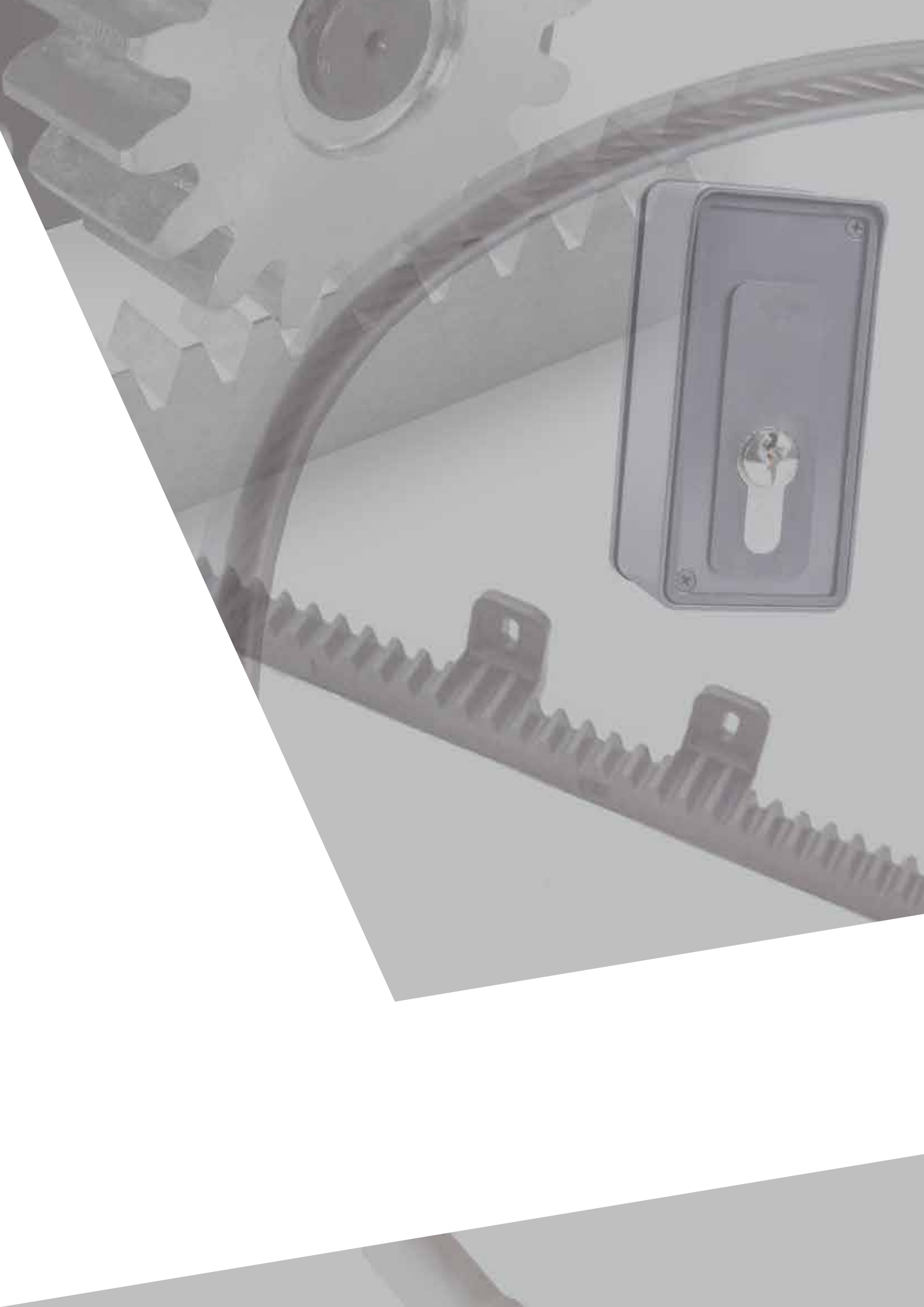


**APE - 790 / 0119H**

PUSH TO OPEN - PBSH



[www.abexo.tech](http://www.abexo.tech)





# Devices and mechanical accessories

Manual Bar MOVEO / A70

Protection module UNI-SAVE / A71

Racks and attachments / A72

"Parachute" brakes for sloping sliding gates CONTROLGIR / A74

Columns, Fall Protection Cables and Electric Locks / A75

Key Push Buttons and Roller Blinds / A76

Roller shutter locks / A77

Batteries and Electric Cables / A78

Enclosures for stainless steel electronic control units BOXX / A79

**Abexo**<sup>®</sup>  
AUTOMATION ACCESSORIES

# MOVEO

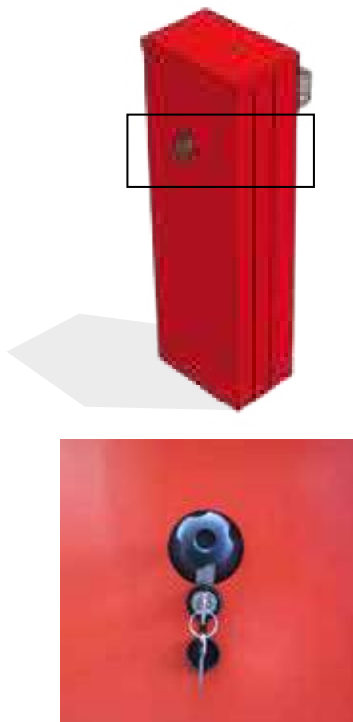
## MANUAL BOOM

THE BOOM IS BALANCED IN EVERY POSITION, UP TO 5.30 m.

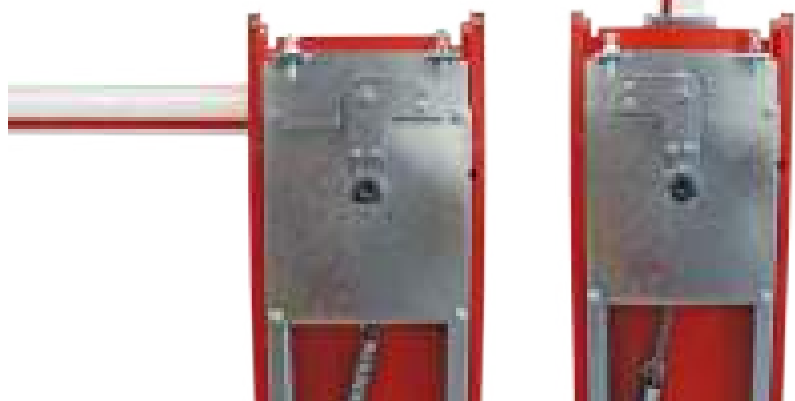
## KEY MECHANICAL UNLOCKING

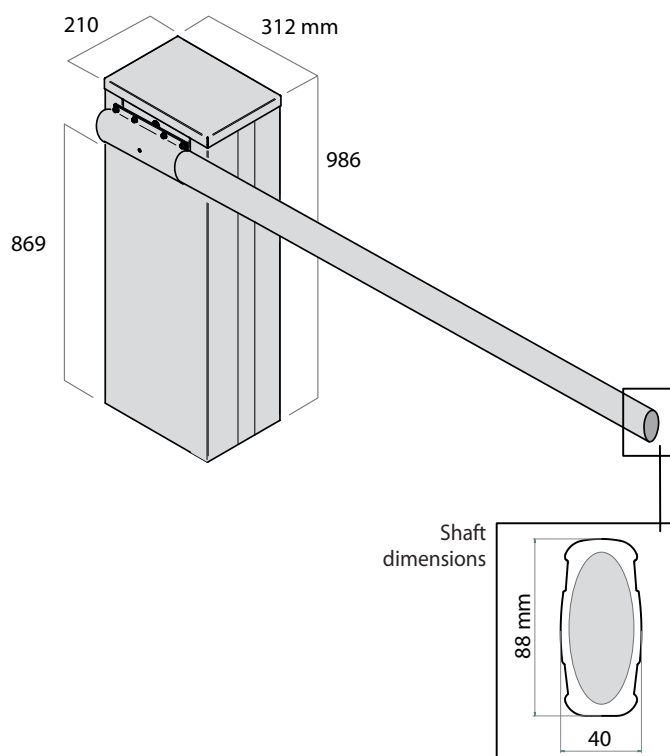


**Safe boom unlocking system with key lock** which guarantees a safe movement of the barrier



Thanks to the **internal linkage mechanism**, the movement of the rod is always balanced with the possibility of locking in the closed or fully open position.





**APE - 150 / 6010**

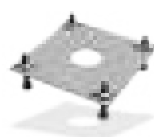


**MOVEO**

The kit includes:  
- Moveo main body  
- boom support

**APE - 150 / 3003**

*Mandatory accessory*



**SBARRA-PF**  
Plate foundation

**APE - 150 / 3004**



**FIXED TIP SUPPORT**

**BOOM**

	<b>APE - 150 / 3030</b>	<b>APE - 150 / 3040</b>	<b>APE - 150 / 3045</b>	<b>APE - 150 / 3053</b>	<b>APE - 150 / 3061</b>
	Boom length 3 mt	Boom length 4 mt	Boom length 4,5 mt	Boom length 5,3 mt	Boom length 6 mt
confirm exact lenght when ordering					



**UNI-SAVE**

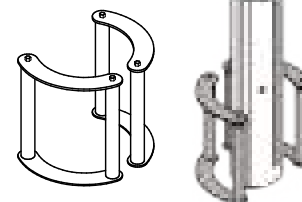
Universal protection module



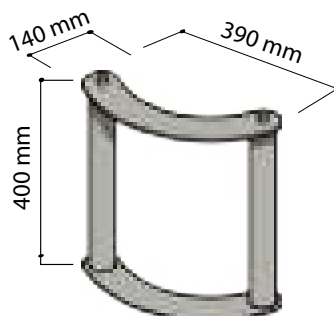
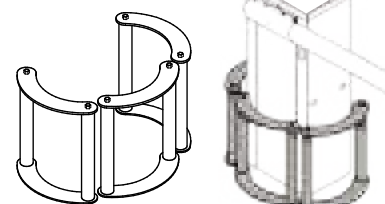
round high-strength  
steel frame with  
steel columns

Peso 7,5 Kg

configuration: **POLY-SAVE**  
x2 elements



configuration: **BARRIER-SAVE**  
x3 elements



**Individual module**

Is a universal access control system protection module and much more. It is made of a modular metal structure that can be adapted to different applications, such as for example, to protect "POLY" chain barrier (2 elements).

**APE - 150 / 8038**

**Individual**  
**UNI-SAVE module**

## CRP500

**NEW**

Nylon rack max 500 Kg (a) for sliding gates



- Single bar lenght 1mt
- 6 mts pack of tecnopolymer rack
- N.5 central fixing elements module 4/ screws included (5 screws per meter)
- Double sided toothing to make it usable on both sides
- No steel core: design and shapes studied to cancel any chance of strain
- **Maximum capacity 500 kg**



APE - 511 / 0500

**CRP500  
rack 500kg**

## CRP700

Tecnopolymer rack max 700 Kg (a) for sliding gates



- Single bar lenght 1mt.
- 10 mts pack of tecnopolymer rack
- N.6 fixing elements module 4
- **Maximum capacity 700 kg**



APE - 511 / 0700

**CRP700  
rack 700kg**

## CRP1200

Tecnopolymer rack max 1200 Kg (f) for sliding gates



- Single bar lenght 1mt.
- 8 mts pack of tecnopolymer rack
- N.6 fixing elements module 4
- **Maximum capacity 1200 kg**



APE - 511 / 1200

**CRP1200  
rack 1200kg**

### RACKS FIXING ELEMENTS CRP700 / CRP1200

- Fixing elements:  
1 pack = 1mt di rack
- Min. quantity purchasable: 10pcs



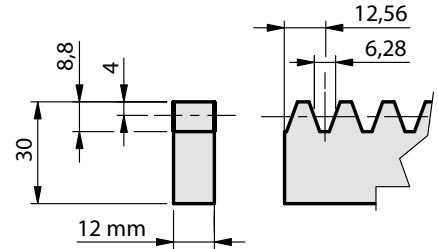
APE - 511 / 0060

**Fixing elements for  
CRP700 and  
CRP1000 rack**



## CRM3012

Steel rack for sliding gates



- Single bar length 1mt
- 4 mts pack of galvanized steel racks (module 4)
- With bolts and spacers for wall mounting (to be welded)

APE - 555 / 1020

**CRM3012**  
**galvanized steel rack**  
**(pack 4 mt)**

### OPTIONAL BRACKETS TO FIX THE STEEL RACK

## ST500

Combinable fixing brackets for CRM3012 galvanized rack

- Quick fixing brackets for iron rack. They can be fitted over or under rack's teeth.
- **Max. load 500 kg**



APE - 563 / 5020

**ST500 - fixing brackets**  
**max 500 kg**

- Pack for 1 mt of rack
- Min. quantity purchasable: 4 pcs.

## ST800

Fixing brackets for CRM3012 galvanized rack

- Quick fixing brackets for iron rack. They can be fitted over or under rack's teeth.
- **Max. load 800 kg**

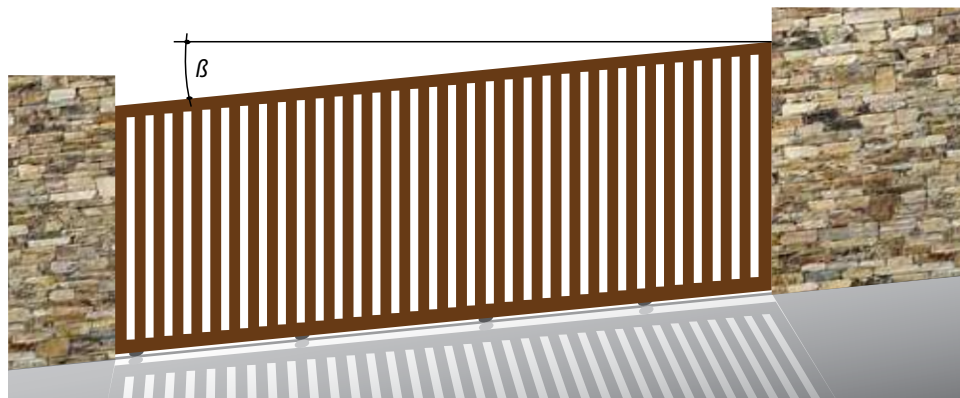


APE - 563 / 5010

**ST800 - fixing brackets**  
**max 800 kg**

- Pack for 1 mt of rack
- Min. quantity purchasable: 4 pcs.

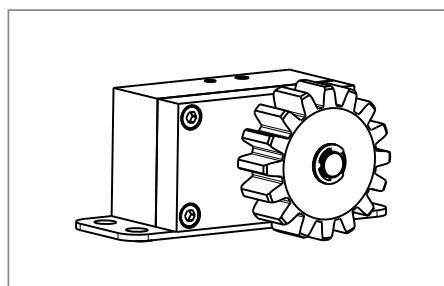
NEW



The CONTROLGIR line is indispensable for standardization in the presence of sliding gates on a slope (it is necessary for there to be a rack). In case of unlocking of the automation gear motor, the internal hydraulic circuit (adjustable) has the function of "parachute," that is, to regulate the downward speed throughout the gate's travel. The operating speed should be adjusted just above that of the gearmotor so that it does not interfere with the automation.

## CONTROLGIR-7

Braking system for sloping sliding gates - maximum slope 3,2° (7 Mn)



APE - 147 / 4004

Parachute break  
3,2° - 7Nm

### TECHNICAL DATA

M (required resistant moment): 7 Nm  
Rack pitch: M4  
Gate weight: 400 Kg (3920 N)  
**Slope: 3,2° MAX**

### Formula:

$M [Nm] = P \times \sin \beta \times 0,032$   
 $P = \text{gate weight in Newtons (9.8N=1Kg)}$   
 $\sin \beta = \text{sine of the tilt angle } (\beta = \text{tilt in degrees})$   
 $P = 9.8 \times 400\text{kg} = 3920 \text{ Newton}$   
 $M = 3920 \text{ Newton} \times \sin 3.2 \times 0.032 = 7 \text{ Nm}$

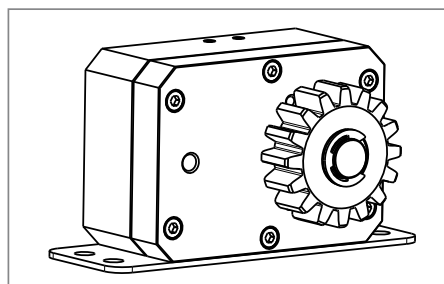
Send us the following technical data of your installation:

- Gate weight
- $\beta$  = angle of inclination/slope
- Module of the rack pitch

**We will take care of the calculation!**

## CONTROLGIR-30

Braking system for sloping sliding gates - maximum slope 13,9° (30 Nm)



APE - 147 / 4009

Parachute break  
13,9° - 30Nm

### TECHNICAL DATA

M (required resistant moment): 30 Nm  
Rack pitch: M4  
Gate weight: 400 Kg (3920 N)  
**Slope: 13,9° MAX**

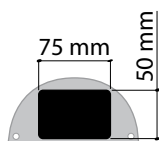
### Formula:

$M [Nm] = P \times \sin \beta \times 0,032$   
 $P = \text{gate weight in Newtons (9.8N=1Kg)}$   
 $\sin \beta = \text{sine of the tilt angle } (\beta = \text{tilt in degrees})$   
 $P = 9.8 \times 400\text{kg} = 3920 \text{ Newton}$   
 $M = 3920 \text{ Newton} \times \sin 13.9 \times 0.032 = 30 \text{ Nm}$

## UNIVERSAL Aluminium columns

**APE - 589 / 3000**

**CLN50**  
Aluminium column  
h=500 mm



**APE - 534 / 1120**

**CLN120**  
Aluminium column  
h=1200 mm



h=500 mm



h=1200 mm

**APE - 589 / 3010**

Base to wall for  
aluminum column  
(500/1200 mm)

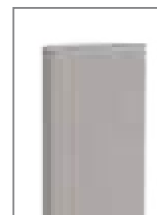


## UNIVERSAL Neutral column

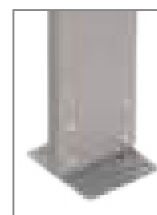
**APE - 550 / 3031**

**CLT149**  
Neutral column  
120x20x1490h mm

120x20 mm

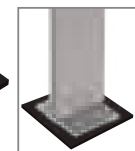
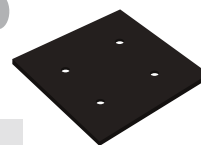


h=1490 mm



**APE - 550 / 3023**

Supporting base  
245x295 mm  
for neutral column



## COL

### Fall prevention cable

Fall prevention STAINLESS STEEL cable:  
Ø5mm x 133 wires section and 2 slots,  
equipped with sheath and timble.



**APE - 542 / 0053**

**COL53**  
Fall prevention cable  
length = 530 mm

**APE - 542 / 0070**

**COL70**  
Fall prevention cable  
length = 700 mm



## ELV

### Vertical 12V electric lock with ground latch

- Release mechanism 17Vdc (12Vac)
- Release lock and n.2 fixing screws
- Catch plate
- N. 3 keys
- Metal body
- Body dimensions: 66x35x122h mm



**APE - 518 / 5001**

**ELV**  
Vertical  
electric lock

## ECO-KEY

Surface-mounted two contacts key-switch



- Start/Stop
- Cylinder PREFER
- Technopolymer
- Degree of protection: IP54
- Operating temperature: -20°C, +55°C
- Switches absorption: 16A
- Dimensions: 75x75x31h mm



**APE - 518 / 0030**

**ECO-KEY**  
Surface-mounted  
key switch

## FLAT

Aluminium wall-mounted key-switch

- 2 contacts: 16A
- Dimensions: 79x30x79h mm



**APE - 136 / 6015**

**FLAT - Aluminium**  
wall-mounted  
key-switch

## SMALL59

Aluminium security box  
with break release and push button



**APE - 556 / 1150**

**SMALL59**  
Security box

- Wall mounting
- Material: alluminium
- Electrical connection in accordance with the three-way terminal block
- Lock: made in Italy european cylinder

## ECO-KEY-IN

Two contacts flush-mounted key switch

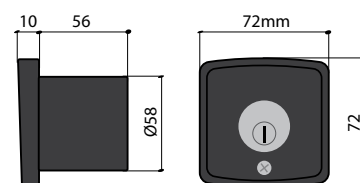


- Start/Stop
- Cylinder PREFER
- Technopolymer
- Degree of protection: IP54
- Operating temperature: -20°C, +55°C
- Switches absorption: 16A



**APE - 518 / 0040**

**ECO-KEY IN**  
Flush-mounted  
key switch



## SMALL53

Wall-mounted selector switch  
with break release



**NEW**

- Break release with hexagonal key
- Interchangeable cylinder made in Italy
- Key with European cylinder
- Release lever in the keyfob
- Metal body
- Dimensions: 53x108hx44 mm



**APE - 556 / 1155**

**SMALL53**  
wall-mounted selector  
with release

## SMALL53-IN

Flush-mounted selector switch  
with break release



**NEW**

- Flush-mounted on tubular 40x60mm
- Interchangeable cylinder made in Italy
- break release with hexagonal key
- Dimensions: 57x120hx37 mm



**APE - 556 / 1154**

**SMALL53-IN**  
Flush-mounted selector  
switch with break release



## EASY UNLOCK

NEW

Internal release for roller shutters  
and emergency release for automatic doors

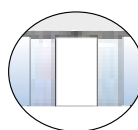
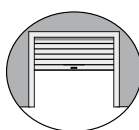
**EASY UNLOCK** is the first release device for the brake specially designed for security inside commercial premises.

In the event of an emergency, it allows to release the motor brake and manually open the shutter in a quickly and intuitive way.

- Connectable to external release device
- Flush-mounted and wall-mounted
- Size: 30x143h x 33 prof cm
- Frame 41 x 158h mm for flush mounting
- Color WHITE RAL 9010

APE - 556 / 1173

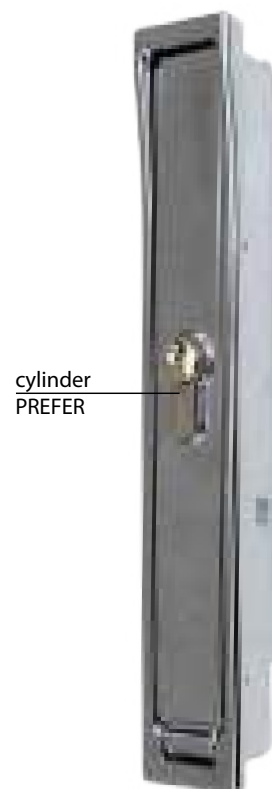
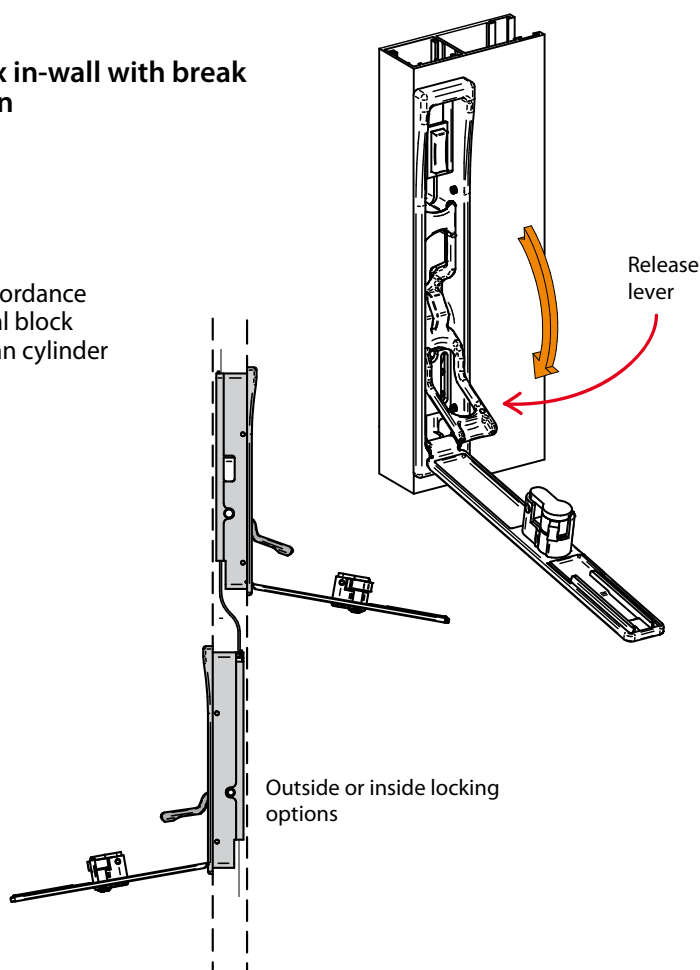
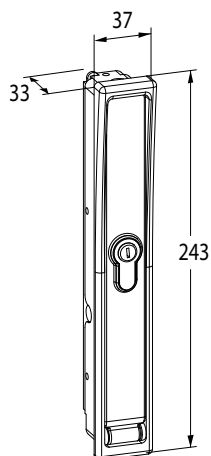
**EASY UNLOCK**  
Internal release  
for roller shutters



## SLIM37-IN

Aluminium security box in-wall with break  
release and push button

- Hole 30 x 235 mm
- Recessed mounting
- Material: zama (zinc alloy)
- Electrical connection in accordance with the three-way terminal block
- Lock: made in Italy european cylinder



APE - 556 / 1160

**SLIM37-IN**  
Security box in-wall

## CR2032

CR2032 3V battery for EGO transmitter  
brand: "Maxell"

minimum pack and its  
multiples: 25 pcs



**EGO**

APE - 550 / 9501

## BATT3.6V

3.6V Lithium battery for Radioband3

pack: 1 pcs



JCM-3004484

## BATT1.5V

1,5V AA alkaline battery  
for RadioBand1G and Sensitive safety edges

pack: 1 pcs



JCM - 3002997

## CR2

3V lithium battery  
for EGO-KODE brand "Panasonic"

pack: 1 pcs



APE - 550 / 9503

## ALK12V

12V alkaline battery for GP23AE transmitters

minimum pack and its  
multiples: 50 pcs



APE - 622 / 2401

## CR2450

3V battery for SIX



APE - 550 / 9505

## Cavo 4x0,22

Outer diameter 4.7mm  
Conductors 4x0.22mm<sup>2</sup>

pack: 100mt

Ideal for:

- replacing old intercom cables
- powering photocells and led flashing lights



APE - 521 / 4022

### Technical characteristics

- Double-insulation CE EN50575:2014
- Operating temperature: fixed pose: -40°C + 70°C
- Minimum radius of curvature: 5 times the diameter
- Insulation voltage U<sub>0</sub>=400V
- Mobile pose: -10°C + 60°C
- Operating voltage U<sub>0</sub>/U: 100/100V
- BBFlex sheathing resistant to oils and UV rays



# BOXX

**NEW**



## Line of PORTA CENTRAL BOXES enclosures

The BOXX containers for control units, with a modern and compact design, include a range of versions manufactured entirely in stainless steel and adaptable to any need.

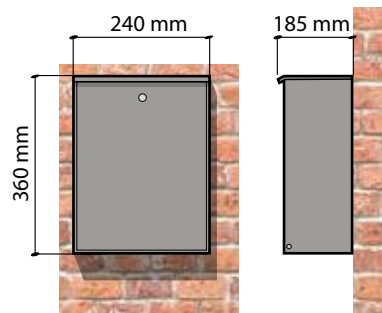


### BOXX

Wall-mounted container

**APE - 150 / 5020**

**BOXX**

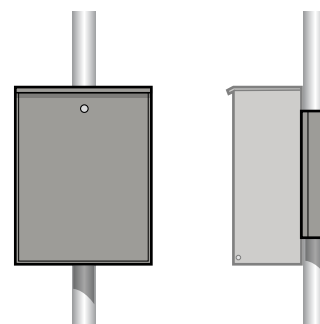


### BOXX-STP

Mounting bracket  
BOXX pole

**APE - 150 / 5021**

**BOXX-STP**

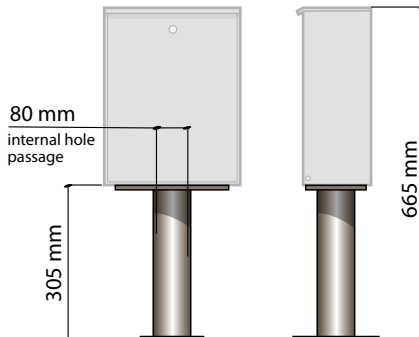


### BOXX-RISE

Base support  
for BOXX

**APE - 150 / 5025**

**BOXX-RISE**



#### Technical characteristics:

- Structure material: stainless steel
- Mounting bracket and base material: stainless steel

# BOXX-XL

**NEW**



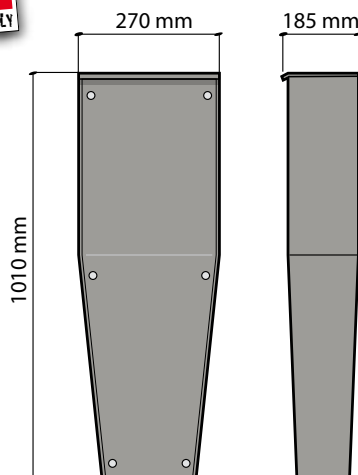
The extra-large BOXX version has been built to possess the maximum contentive capacity, so that it could hold switches, electric devices and central units.

#### Technical characteristics:

- Structure material: stainless steel

**APE - 150 / 5045**

**BOXX-XL**





## AB tecno - Terms of Sale

### 1. Effectiveness of these general conditions of sale

These General Conditions of Sale apply to all orders relating to products with the Abexo brand, addressed to Ab Tecno srl (hereafter: Ab Tecno srl). For distributed brands, the sales conditions of the manufacturer are valid, if present. All sales from Ab Tecno to Customers (hereafter: Customer) are governed by the following General Conditions of Sale, which are an integral part of the sales contract and replace and cancel any contrary special clause or agreement in the order or in another document from the Customer.

### 2. Orders

All orders are "subject to availability and change of price lists". Ab Tecno reserves the right to accept or refuse, in whole or in part, the orders of the Customer in reason of their conformity or not with the present general conditions and the availability of the requested products. Ab Tecno reserves the right to make at any time technical changes to the products in the price list, without this generating any claim by the Customer.

Orders can not be canceled in whole or in part by the Customer after 5 days from their transmission to Ab Tecno srl; in case of cancellation after this term, Ab Tecno srl will be entitled to the entire indemnity.

### 3. Prices

The products are sold by Ab Tecno to the customer at the Ab Tecno srl price list in force at the time of delivery. The Customer undertakes to accept without reserve the eventual variations of the list intervened between the order and the delivery of the product.

Each new Ab Tecno price list cancels and replaces the previous ones. Ab Tecno srl list prices are always intended ex-works, excluding VAT.

### 4. Terms of delivery

- All products are delivered ex-works, Ab Tecno warehouse.
- Unless otherwise agreed in writing with Ab Tecno, the delivery terms are 30 working days from the order accepted by Ab Tecno.
- Any delay not exceeding the tolerances of use will not entitle the Customer to request the termination, even partial, of the contract, to refuse the delivery of products or request compensation for damages.
- The obligation to deliver the goods is fulfilled with delivery to the carrier.
- Ab Tecno is freed from the obligation to deliver the goods in all cases of fortuitous event or force majeure, strikes or the impossibility of procurement of raw materials or other unavailability of products, and in any case when events occur that prevent delivery of the goods without fault of Ab Tecno srl.

### 5. Shipments

- Shipments will be made by courier agreement with Ab Tecno, which will automatically charge the relative amount on the invoice. When ordering it will be possible to agree with Ab Tecno the use of a different courier, always at the expense of the Customer, or the direct collection of the goods, ex factory Ab Tecno srl.
- The goods always travel at the total risk and danger of the customer. Possible thefts, losses, deterioration or missing goods don't exonerate the customer from the obligation to pay the price, if the goods have been regularly delivered from Ab Tecno factory to the carrier.
- The goods are not covered by insurance policy, unless expressly requested by the customer, and at his own expense and risk.

### 6. Collection of products

The Customer undertakes to collect the goods as soon as they have been made available to them. In case of delay, Ab Tecno will be entitled - in addition to the integral payment of the price - the reimbursement of storage or rest and storage costs of the goods, except for compensation for damages. Ab Tecno does not answer of the damages that, directly or indirectly, derive from the stock of the goods not withdrawn or withdrawn late, both in Ab Tecno warehouses that in those of freight forwarders or transporters or others.

### 7. Warranty

- All the equipment on the price list are carefully checked and tested: Ab Tecno guarantees its products, under the Ab Tecno srl trademark or any other brand, against the defects of the material used or the manufacture according to the conditions and limits of installation and use indicated by Ab Tecno.
  - The duration of the guarantee is:
    - 1) 24 months from the date of manufacture affixed to each Ab Tecno brand product.
    - 2) The warranty includes only the repair or replacement of the product considered defective according to Ab Tecno: it remains excluded from the warranty any other damage or expense of any nature incurred by the customer. All replaced products will remain the Ab Tecno property anyway. Ab Tecno assumes no responsibility for problems arising from incorrect installation of the products. It is always indispensable that the person carrying out the installation complies with the safety regulations in force and has the necessary technical knowledge and capacity to perform the installation properly.Ab Tecno assumes no responsibility in the event of failure to comply with the assembly and electrical connection instructions, or electrical or other specific regulations in force at the time of installation, as well as accessories and electrical or mechanical components of Ab Tecno have been installed, used or connected without respecting the patterns and types of connections for which they were designed. Likewise Ab Tecno assumes no responsibility in case of use or application of the products for purposes that are not appropriate to the nature, capacity and degree of flow of Ab Tecno products.
- For products no longer under warranty Ab Tecno srl provides an assistance service for the repair of the equipment, with charge of the relative expenses. In the case of non-repairable equipment, Ab Tecno srl may, at its sole discretion, provide for their replacement, charging them each related cost to the customer.

### 8. Complaints and responsibilities for defective products

- Possible claims for shortages or failures apparent from the external examination of the packages containing the goods must be elevated, under penalty of forfeiture, upon receipt of the goods themselves, by means of a note signed by the purchaser and affixed to the delivery documentation. any claims for other defects of conformity of the goods, not detectable by the external examination of the packages, must be communicated to Ab Tecno, under penalty of forfeiture, by registered letter with acknowledgment of receipt, to be sent within 60 days of delivery of the products.
- In any case, merchandise returns are not allowed without the prior written consent of Ab Tecno. Ab Tecno is exonerated from any other responsibility, and in particular, from any liability for damage to property or other emerging damage or for loss of profit, direct or indirect. Furthermore, no complaint can give right to the delay or suspension of payment terms, which must in any case be made in full on what is not contested.

### 9. Reservation of the property

- Ab Tecno srl reserves the ownership of the goods sold until full payment. Therefore, until full payment of the price has occurred for capital and accessories, the goods delivered, wherever they are and even if they have already been resold by the customer, will remain in full and exclusive property of Ab Tecno srl.





- ## 10. Payment conditions

- ## 11. Patents, trademarks and distinctive signs

## 12. Resolution clause

The goods delivered and not paid must be returned to Ab Tecno srl at the expense of the customer.

### 13. Approvals

#### 14. Italian law and competent court

## Notes

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