

CATALOGUE 11 rev.3



"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.abtecono.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



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.



OUR ABEXO PRODUCTS WARRANTY



5-YEARS WARRANTY
on Radio lines products,
Flashers, Signallers and LED
traffic lights, Universal control
units, Manual barrier MOVEO



2-YEARS WARRANTY
on Photocells lines products
and Security Devices detectors,
pedestrian and industrial
sensors opening doors, Devices
and Mechanical Accessories

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. 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-PLUS, EGO64, EGO433
- > Universal 6 channels transmitters: EGO KUBE
- > Universal multi-frequency radio keypad: EGO-KODE
- > Universal radio Antennas: SMALL, DUAL, PLANE, PIPE, BASIC433, BASIC868
- > Universal self-learning radio receivers: COPY-MULTI, COPY-433
- > Industrial radio transmitters and receivers: INDUS
- > Long range radio link: MARCONI

page A7



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

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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
- > 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



page A61

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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Manual Bar and Protection module

- > MOVEO
- page A74



Mechanical accessories

- > Universal aluminum columns: DORICA
- > Enclosures for stainless steel electronic control units and protection: BOXX, UNI-SAVE
- > Rack and fixing elements: CRP and CRM
- > "Parachute" brakes for sloping sliding gates: CONTROLGIR
- > Security Box
- > Roller shutter locks and Key-switch
- > Batteries



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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)



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



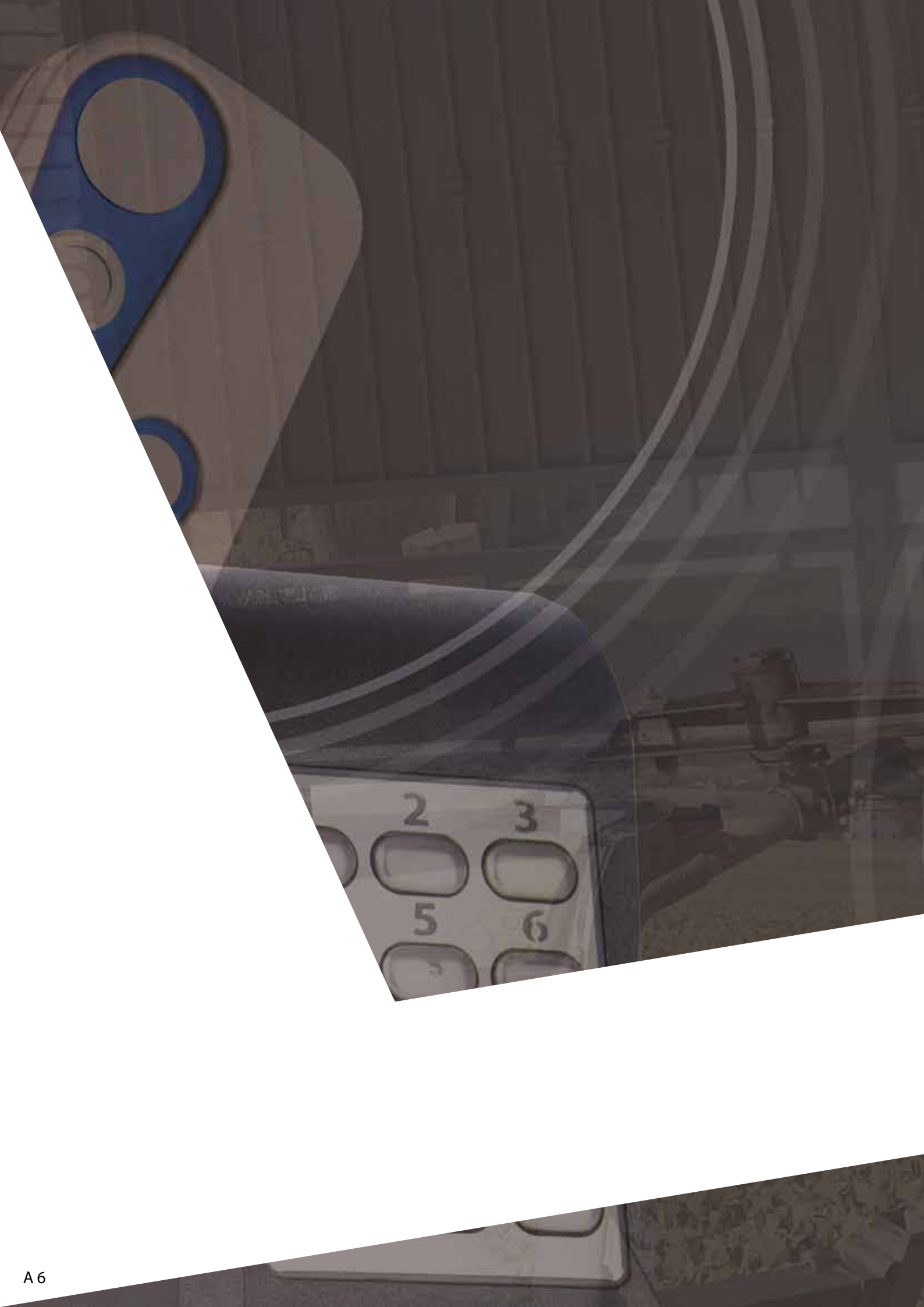
Product with Class 2 safety device certificate: it avoids crashes against obstacles, cars or people



Indication about the production area of the product



Product manufactured with attention to low energy consumption



Radio products



4-channel multi-frequency transmitter EGO PLUS /A10

6-channel multi-frequency transmitter EGO KUBE /A11

multi-frequency transmitter EGO64 /A12

transmitter 433,92MHz EGO433 /A13

Multi-frequency keypad EGO-KODE /A14

Radio ANTENNAS /A15

“Universal” multi-frequency receivers COPY-MULTI and COPY-433 /A16

Industrial radio transmitters and receivers INDUS6 and INDUS-RX /A17

Long range radio link MARCON /A18

Abexo[®]
AUTOMATION ACCESSORIES



“The Perfect Control!”

All the radio controls you could wish in the widest range on the market.



**We offer a wide range of radio remote controls
for all your requirements, including industrial use**

Unify the existing transmitters

THE ALTER-**EGO** OF YOUR TRANSMITTERS

because is an emulator of an original brand transmitter



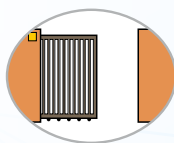
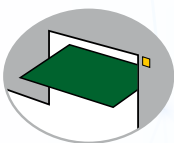
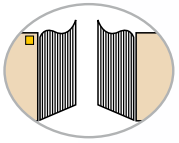
Duplicating the original transmitters has never been so easy!
A shell of new design, linear, light and intuitive contains a jewel of technology.

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).



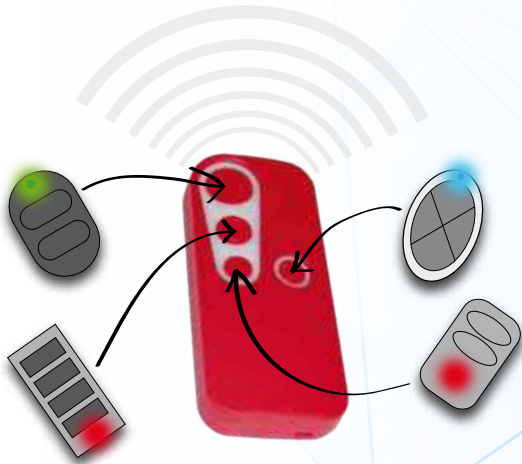
Originals, a guarantee of operation.

Why prefer an ORIGINAL transmitter for your automation?

When a transmitter is developed, large investments are made in order to offer the best in all product aspects: design, type of code (to secure your automation), radio design (to ensure conformity to radio frequency standards and offer a range that corresponds to your needs). All this process, research, testing and certification has a cost, the cost of quality. For reasons related to your automation safety, quality adaptability and for ethical reasons, it is certainly recommended to buy an original transmitter - which will always be better than the copy.

When do you need a compatible transmitter?

When the original model is not available any more (and therefore the user would be forced to buy a different model and consequently add a new radio receiver to the existing system, with additional installation costs) and when the user has to control several automations of different brands or from different time periods and therefore needs a universal transmitter that unifies all the original transmitters in a single device.





Radio products/

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



EGO PLUS

NEWS



The EGO's evolution leads to EGO PLUS. Compatibility increased in a single version.

Universal 4-key/channel multi-frequency transmitter (433.92MHz to 868.35MHz). Manufactured entirely in Italy, it is capable to learn fixed and rolling codes.

Each key can be independently programmed so that 4 different transmitters can be memorised in a single device.

It is also equipped with its own rolling-code that allows to securely manage residential automations.

Simplified original copying: LEDs indicate how to complete the programming depending on the remote control model to be copied.

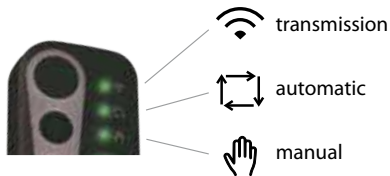
Uses a 3V CR-type battery.

NEW (DOUBLE) ANTENNA

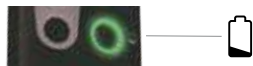
NEW SOFTWARE PLATFORM

Technical specifications
Power supply: n.1 battery CR2450
Frequency: from 433,92 Mhz to 868,35 Mhz
Operating temperature: -20°C, +55°C

Functionality and led reference



Low battery light signal

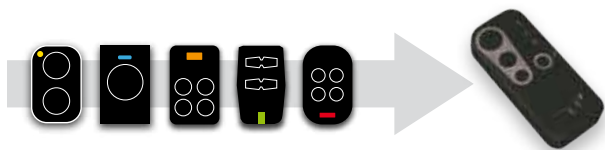
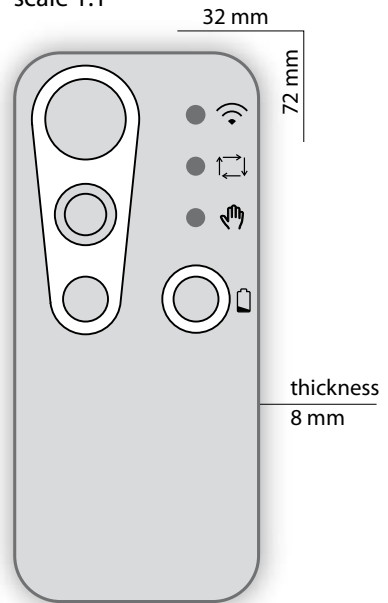


Transmitter's customisation is possible on request. Minimum order: 300pcs



DIMENSIONS

scale 1:1



ORIGINAL COPYING SIMPLIFIED

News leds indicating how to complete the programming depending on the model's remote control to be copied

APE - 550 / 4164

EGO PLUS
4-channel transmitter

> Scan the QR code / click on the link
Visit our website
EGO PLUS
<https://shorturl.at/AGX28>

EGO KUBE

NEWS



Universal 6-key/channel multi-frequency transmitter (433.92MHz to 868.35MHz).

The same functions, the same ease-to-use and the same EGO PLUS power of software inserted in a particularly resistant and translucent 6-buttons shell that allows LEDs to be displayed at the icons (simplified copying).



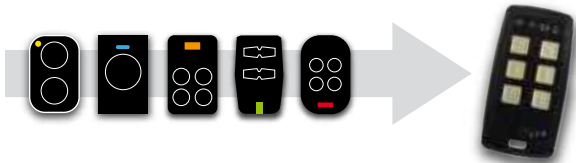
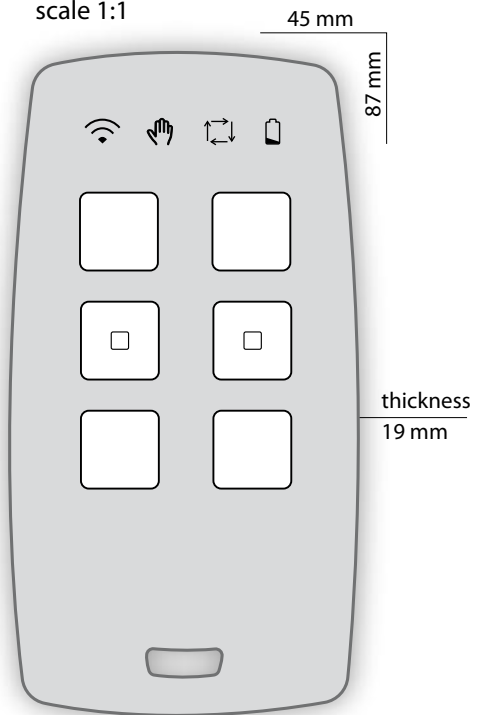
NEW (DOUBLE) ANTENNA

NEW SOFTWARE PLATFORM

Technical specifications
Power supply: n.1 battery
Frequency: from 433,92 Mhz to 868,35 Mhz
Operating temperature: -20°C, +55°C

DIMENSIONS

scale 1:1

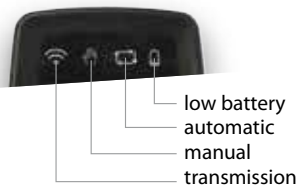


ORIGINAL COPYING SIMPLIFIED

News leds indicating how to complete the programming depending on the model's remote control to be copied



Ergonomic and RESISTANT



SIMPLE UNDERSTANDING AND IMMEDIATE

Corresponding to the LEDs are designed icons explaining their functions



> Scan the QR code / click on the link
Visit our website
EGO KUBE
<https://shorturl.at/gnstH>



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



EGO64=EGO+EGO32

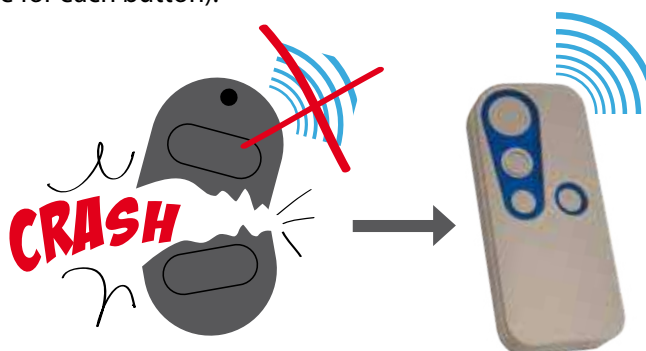
Duplicating the original transmitters has never been so easy!
A shell of new design, linear, light and intuitive contains a jewel of technology.

The **EGO64 transmitter** is suitable to unify or replace all outproduction radio commands plus the ability to replace almost all the models currently trading.

EGO64 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 quartzate frequencies ranging from 28.785 MHz to 40.600 MHz).

In addition to the frequency, **EGO64** 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).



CODE GENERATOR FEATURE

If the original transmitter is not available or damaged EGO64 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 EGO64 transmitter, press N2 times the button that you want to store. For "BRAND B" instead, press it N5 times.



EGO64

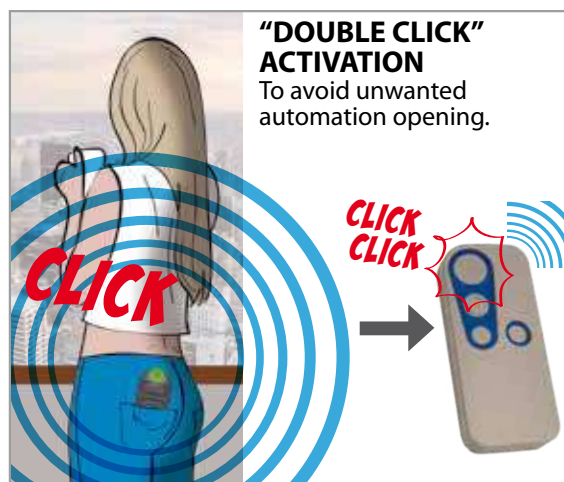
DOUBLE LED

The double colour led makes it easy to program.



"DOUBLE CLICK" ACTIVATION

To avoid unwanted automation opening.



> Scan the QR code / click on the link
 Visit our website
EGO64

<https://is.gd/luTHBs>

Find out the new EGO64 eco-friendly with 100% recycled plastic pod



NB: the colors of the EGO64s made of recycled plastic are purely indicative and may vary depending on the material to be recycled at the time of production.

APE - 550 / 1144.RP

EGO64 Transmitter MADE OF RECYCLED PLASTICS



EGO433



Self-learning 433,92 Mhz 4-channel 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/3cEoMAx>

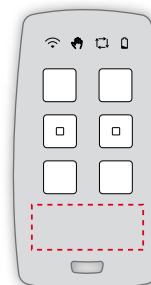


CUSTOMIZATION OF EGO TRANSMITTERS

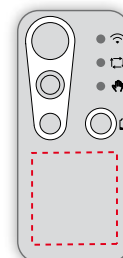


It's possible, on request, to customize the front part of the EGO transmitter with logos or writings.

Minimum quantity 300 pcs.



EGO KUBE
customization
area



EGO PLUS
customization
area

On request, it is also possible to personalise the EGO PLUS/EGO KUBE transmitters shell colour:

Minimum quantity 1500pz

> Ask our customer service





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

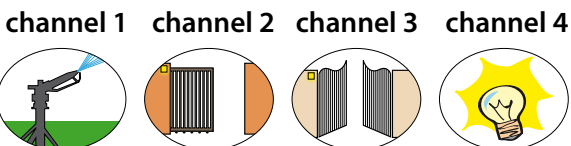


EGO-KODE

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.



#OPEN 4 DIFFERENT AUTOMATIONS
 different brand, frequency/type



EGO64

#TRANSMITTER COMPATIBILITY
 "ALL" the rolling-codes in your keypad
 up to 4 different remote controls



code acquisition and generation



#DUAL POWER SUPPLY
 battery-powered
 or wiring



#COMPATIBILITY WITH UNIVERSAL RECEIVERS
 use the receiver that you already have in the system



Find out our product range
 > see **COPY-433**

TECHNICAL FEATURES

Learning capability: 4-channel radio output
 Frequency: 433,92 - 868,35 MHz
 Entry mode: PIN Code
 PIN code length: 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
 Dimensions: 92x51x27 mm

APE - 550 / 1177



EGO-KODE radio keypad

APE - 550 / 1180



KODE SET
EGO-KODE + COPY-433

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, stabilty

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

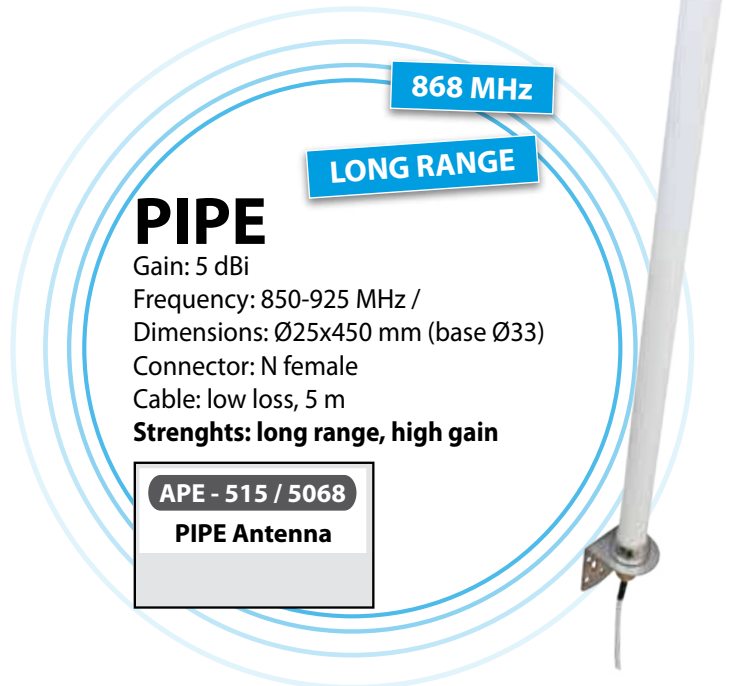
Connector: SMA male

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>



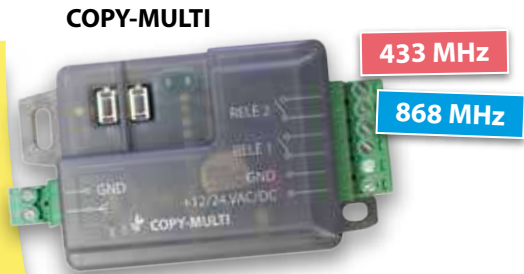
COPY-MULTI / COPY-433

NEW

The universal receiver **COPY-MULTI** and **COPY-433** allow extreme versatility in both new and existing installations. Extreme flexibility: they allow storing remote controls from different distances, with fixed and rolling codes (COPY-MULTI), inside a single receiver. Therefore, the universal receivers allow, in most cases, to unify installations or replace non-functioning receivers without replacing existing radio controls and thus ensuring better continuity service and less discomfort for users.

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.



TECHNICAL SPECIFICATIONS

COPY-MULTI

2 channels (relays NO)

Power supply

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

Relay contacts

- n.2: 2A-120VAC / 2A-24 VDC

Frequency


da 433,92 a 868,35 MHz

Max codes storable

Fixed and Rolling (200)

Operating temperature

-20°C, +60°C

 > Scan the QR code and click on the link. Visit our website > COPY-MULTI
<https://is.gd/knDzrN>

COPY-433

2 channels (relays NO)

Power supply

- da 12 VAC a 24 VAC
- da 12 VDC a 24 VDC

Relay contacts

- n.2: 2A-120VAC / 2A-24 VDC

Frequency


433,92 MHz

Max codes storable

HCS 12-24 bit without key and Fixed (200)

Operating temperature

-20°C, +60°C

 > Scan the QR code and click on the link. Visit our website > COPY-433
<https://is.gd/wTCegk>

OPERATING LOGICS COPY RECEIVERS

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 / 4035

NEW



COPY-MULTI
2-channels multi-frequency receiver dimensions 77x42x18 mm

APE - 152 / 4033

NEW



COPY-433
2-channels 433,92 MHz receiver dimensions 77x42x18 mm

APE - 152 / 5050



BOX COPY for the placement COPY-MULTI / COPY-433



INDUS

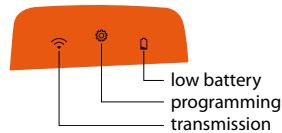
NEW

The INDUS industrial remote control with 4 or 6 keys/channels, is the optimal solution to satisfy the complex control requirements in industrial environments, guaranteeing an effective remote management, with an intuitive and adaptable interface. INDUS is synonymous with adaptability and robustness, offering high performance in terms of mechanical strength and durability.



SIMPLE AND INTUITIVE

The icons, next to the leds, explain their functions



MAXIMUM RESISTANCE

Materials with high mechanical resistance



ERGONOMICS DESIGNED FOR INDUSTRIAL USE

The ergonomics of INDUS and the size of the buttons, guarantees safe and comfortable use, even in the most difficult conditions

THE EYE ALSO WANTS ITS SHARE...

The design and colours are designed to be consistent with the industrial environment. For large quantities there is the possibility of graphic customisation



EXCELLENT RADIO RANGE

Large internal antenna dimension



TIRELESS BATTERY, TRIPLE POWER

The CR2450 battery guarantees **three times as many** activations compared to a classic CR2032 battery



APE - 550 / 4004



INDUS4
4-channel transmitter

APE - 550 / 4006



INDUS6
6-channel transmitter

Technical specifications

Power supply: n.1 battery CR2450
Frequency: 433,92 MHz
Operating temperature -20°C, +55°C

INDUS RX

The INDUS RX receiver, small and discreet, is designed to be inserted into electrical panels.

Technical characteristics

Power supply: 12-36Vac / dc
Frequency: 433,92 MHz
Remote controls storable: 500 max
Output relays: n.2 signal relays max 1A
Dimensions: 77x42x18 mm
Operating temperature -20°C, +55°C

NEW

Removable clamps
for easy handling



APE - 550 / 4033



INDUS RX
Receiver for INDUS



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.



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



**up to 5 Km
bidirectional
transmission**

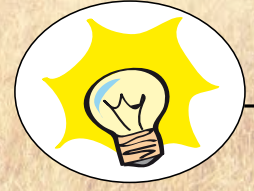
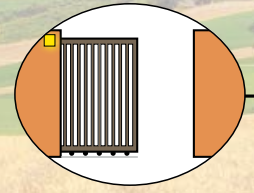
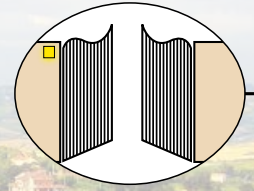
**LINK-R4
RECEIVER
(decoder 4 CH)**



**up to 1 Km
bidirectional
transmission**



LINK-T4X





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

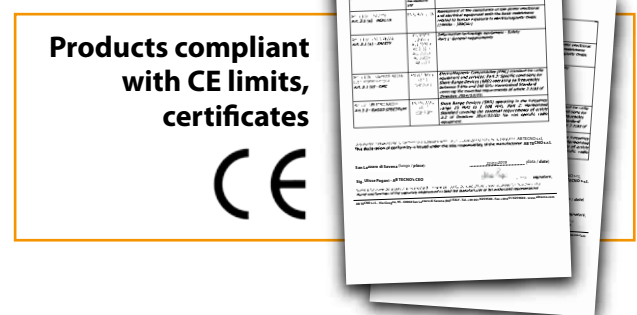
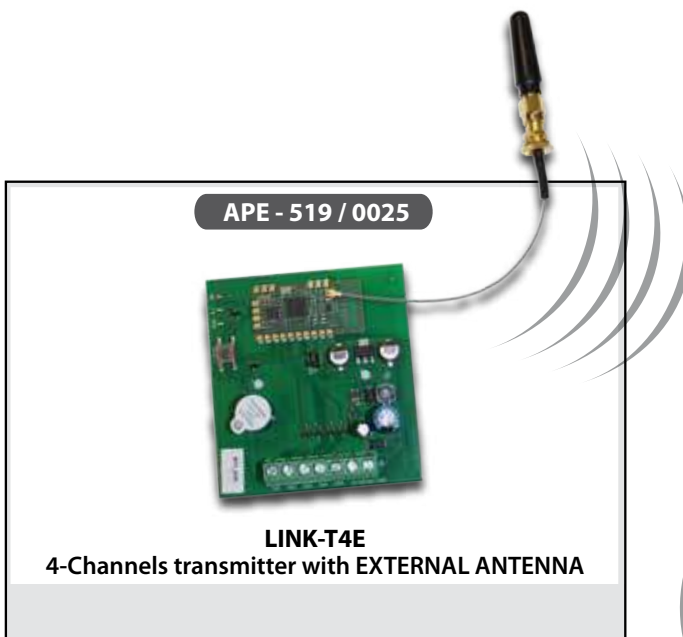
This bi-directional communication makes it possible for the transmitter to know the status of the activated output. The transmitter LINK-T4E allows up to 5 Km of bi-directional transmission whilst LINK-T4X up to 1 Km.



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**





Flashing lights, led traffic lights



- Wall-mounted led flashing light MICRO-FLASH / A22
- LED flasher battery-operated and with motion sensor POWERLED / A23
- Universal spare board RETROFIT / A24
- Universal high luminous efficacy spare board MEGA RETROFIT / A25
- Universal, LED multi-tension flashing light BLINK, MEGA BLINK / A26
- Universal, LED multi-tension flashing light VOLT / A27
- Universal, LED multi-tension wall-mounted flashing light ALF6 and ALFLUX / A28
- LED 12/24v traffic light TRAFFIC / A30
- LED traffic light for pedestrian access MICRO-TRAFFIC / A32
- LED signalling light MICRO-RGB / A33
- Traffic light kits for manual access management RADIO-KODA / A34
- Central management unit for 2-way traffic light systems TRAFFIC CONTROL / A34

Abexo[®]
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

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

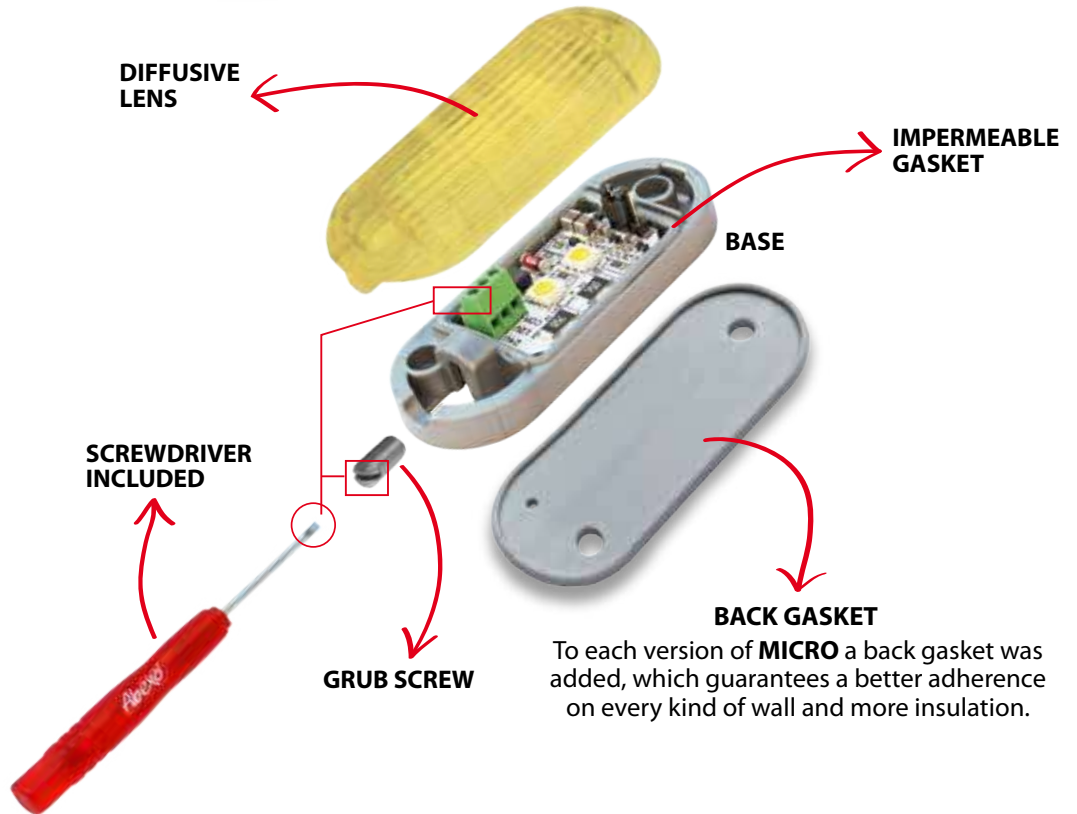


APE - 550 / 1040
MICRO-FLASH
power supply 12-24V

APE - 550 / 1041
MICRO-FLASH RED

APE - 550 / 1042
MICRO-FLASH LUX

APE - 550 / 1043
MICRO-FLASH GREEN



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

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

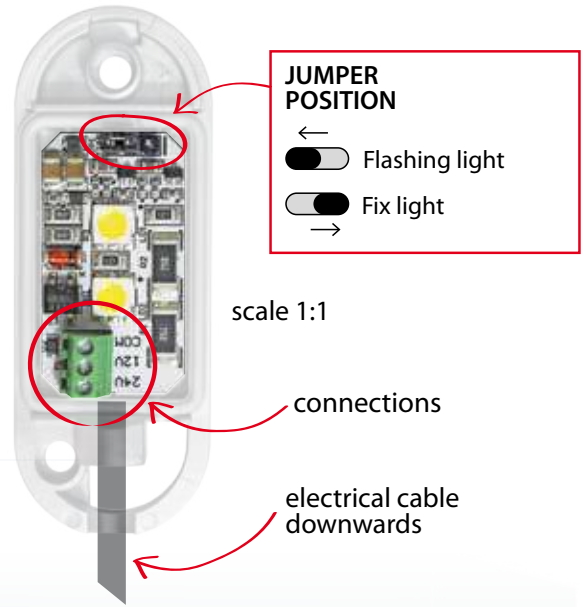
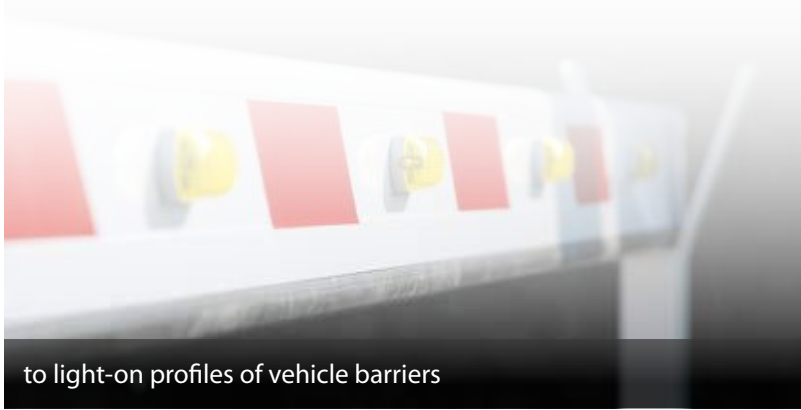
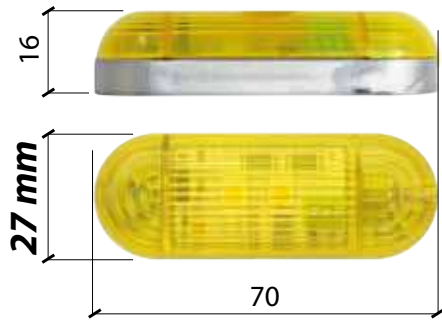
In the early years of spread of automatic gates the cost to have them was very high. The automation was economically for the few and the flashing light, installed in evidence, in addition to its role of signaller, was used as a status symbol: large and very showy. Today the gate automation is affordable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



Led flashing lights/
Wall-mounted led flashing light



LED flasher battery-operated and with motion sensor

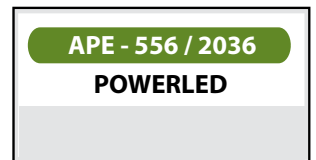
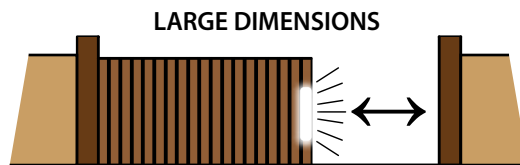
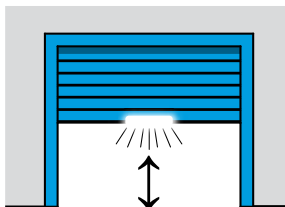
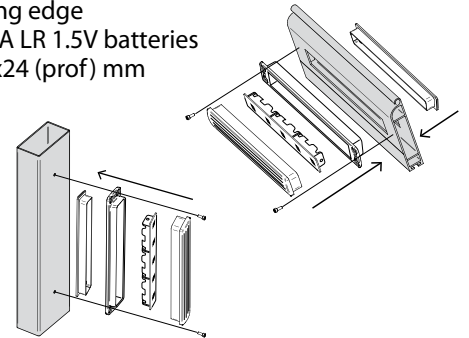
POWERLED

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

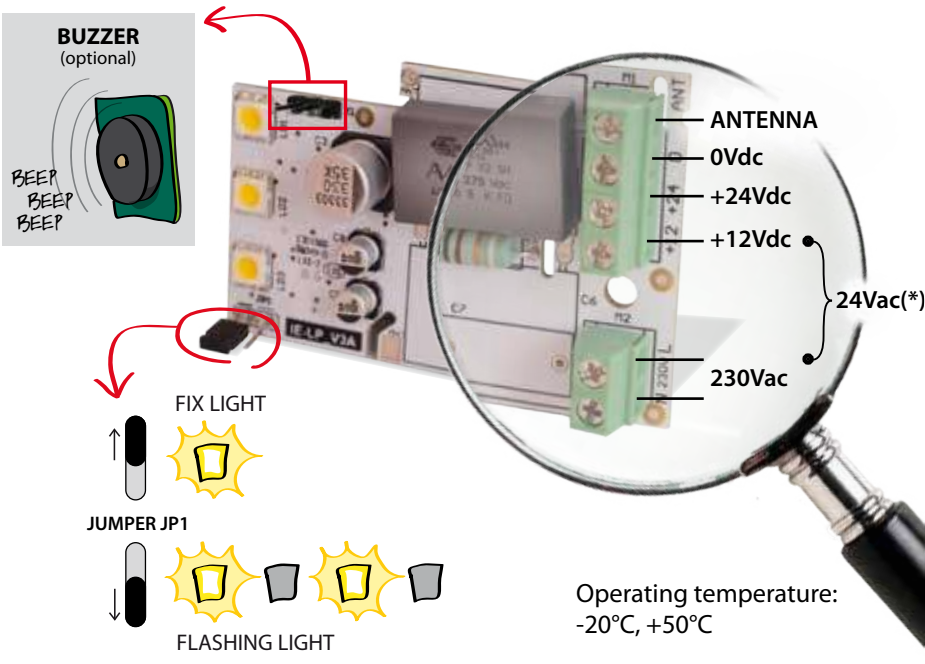
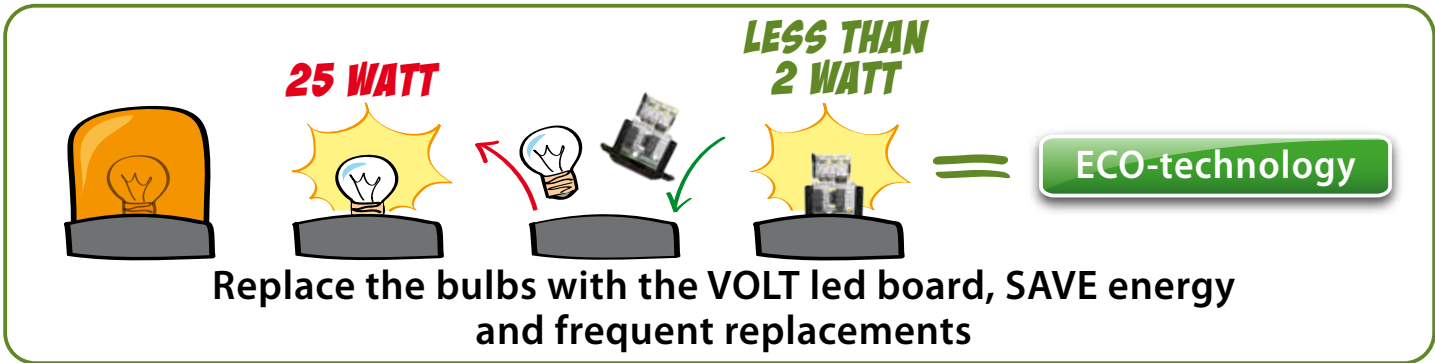


It mounts directly on the lock (shutter, sectional door, gate) recessed or wall-mounted



RETROFIT

The Best Seller



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 / 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...
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LED flashing lamps/
**Universal high luminous efficacy
 spare board**



MEGARetrofit

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

ANTENNA
433/868 MHz

4 BRIGHT SIDES
with 18 LEDs all around
 - 6 leds on the front
 - 6 leds on the back
 - 3 leds per side

BUZZER
degree of IP67 protection

2 terminals (wires)
12V ÷ 240V

JUMPER JP1
Choose between 3 different modes

FIXED LIGHT mode

FLASHING LIGHT mode

FLASHING LIGHT mode
mode with AC > 58 Vac power supply

JUMPER JP2
Choose between 2 brightness levels

	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

MEGARetrofit

APE - 550 / 1006

BUZZER with cable - IP67
(only for MEGARetrofit)

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

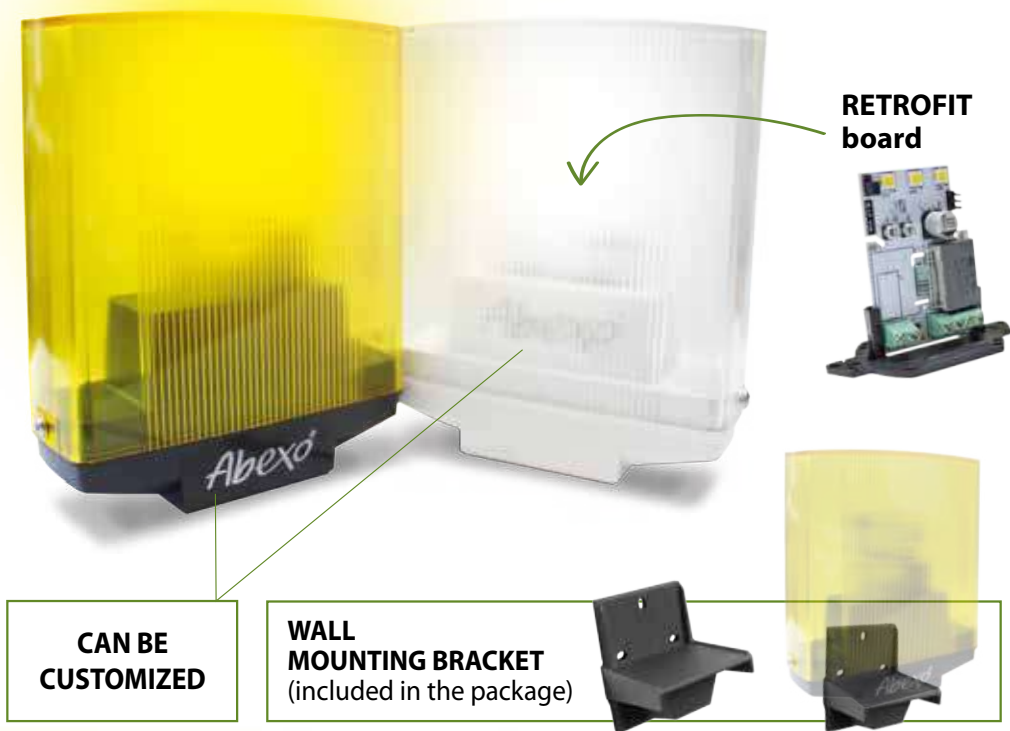
RETROFIT SLIM



Led flashing lights/
Universal led flashing light, multi-voltage



BLINK

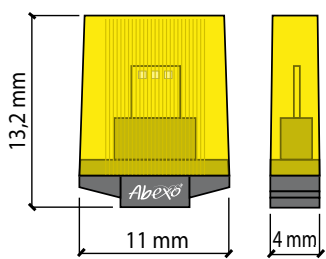


APE - 550 / 1410
BLINK
 with yellow lens

APE - 550 / 1420
BLINKW
 with white lens

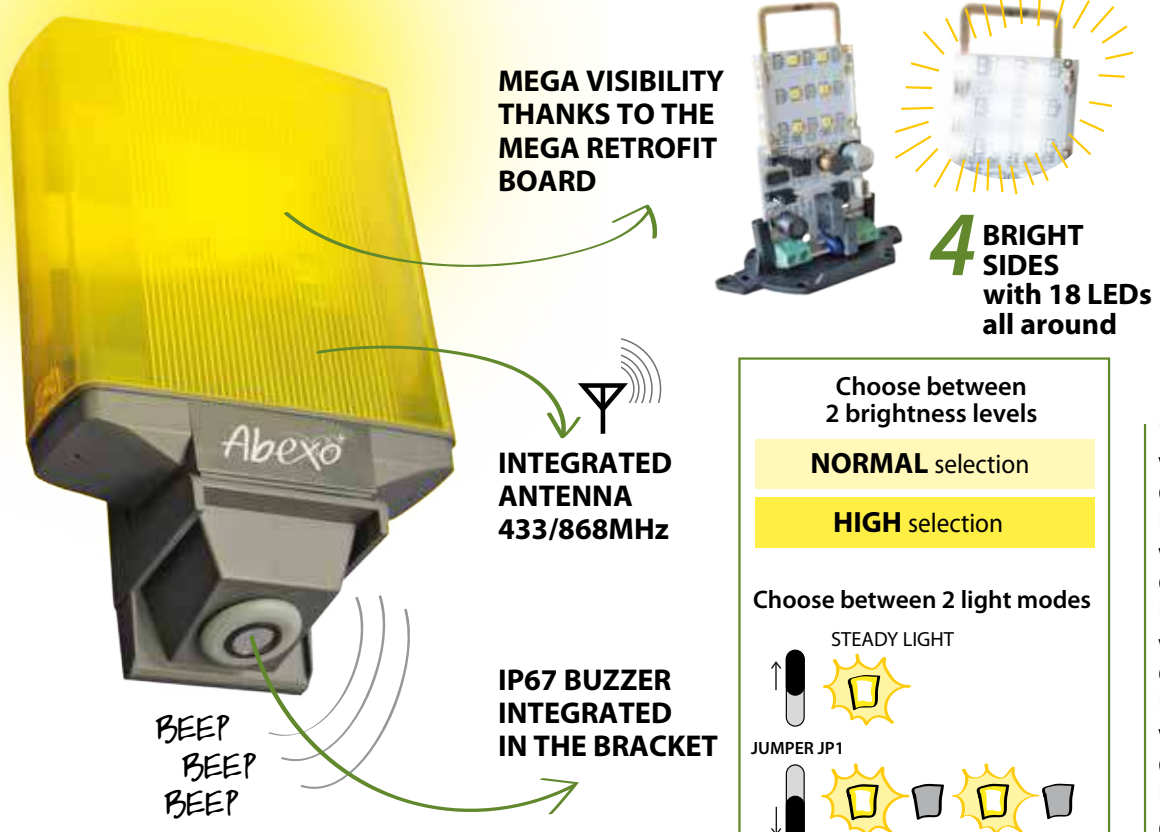
CAN BE CUSTOMIZED

WALL MOUNTING BRACKET
 (included in the package)



MEGABLINK

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



MEGA VISIBILITY THANKS TO THE MEGA RETROFIT BOARD

4 BRIGHT SIDES
 with 18 LEDs all around

INTEGRATED ANTENNA
 433/868MHz

BEEP
 BEEP
 BEEP

IP67 BUZZER INTEGRATED IN THE BRACKET

Choose between 2 brightness levels

NORMAL selection

HIGH selection

Choose between 2 light modes

↑ **STEADY LIGHT**

↓ **FLASHING LIGHT**

JUMPER JP1

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

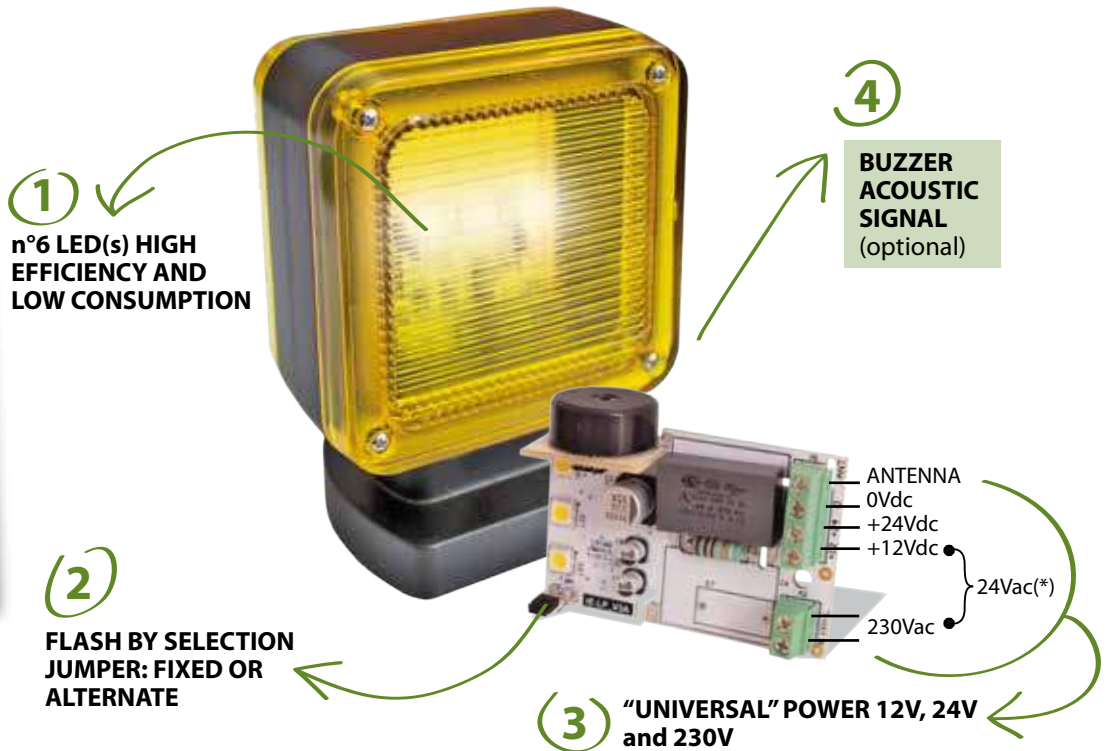


VOLT



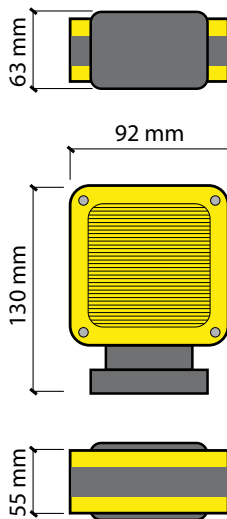
Volt is the unit of measurement of the electrical potential and the potential difference. It is named in honor of **Alessandro Volta**, who in 1800 invented the voltaic pile, the first electrochemical battery. In 1880, the International Electrical Congress now the International Electrotechnical Commission (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)



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

degree of protection **IP65**

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.

APE - 550 / 1015
 90° wall mounting bracket

APE - 550 / 1014
 90° rotation bracket

(*) To connect 24Vac see instructions

ALF6



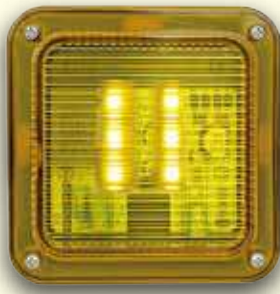
The wall-mounted led flashing light ALF6 is easy to install and elegant. Its multi-voltage power (12/24/230V) makes it suitable for use with all control units, thanks to its flash selection jumper.

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.

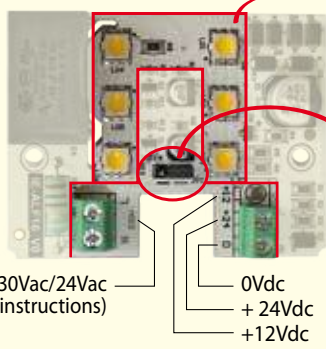
ALF6

yellow flashing light



APE - 550 / 1036

ALF6
YELLOW
multi-voltage
flashing light



230Vac/24Vac (see instructions)

0Vdc
+24Vdc
+12Vdc

"UNIVERSAL" POWER SUPPLY 12V, 24V and 230V

FLASH mode:
6 LEDs active

flash selection through **JUMPER:**
steady on or blinking


NEW

APE - 550 / 1034

ALF6BT
Flasher
YELLOW lens at
LOW VOLTAGE (12Vdc)

ALF6W


white flashing light



APE - 550 / 1036.W


ALF6W
WHITE
multi-voltage
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

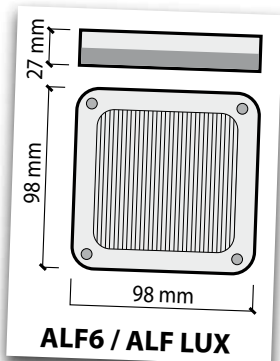
ALF LUX
WHITE multi-voltage
flashing light with
twilight sensor
and 3 operating
modes



line **ALF6/ALF6W**
MULTI-VOLTAGE
 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

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	-	-	-	-



Led flashing lights/
Led traffic lights 12/24v



TRAFFIC

ECO-technology



IN THE MINIMUM SIZE
THE MAXIMUM VISIBILITY



Parking Galileo Galilei (Pisa)

TRAFFIC is a multi-voltage (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

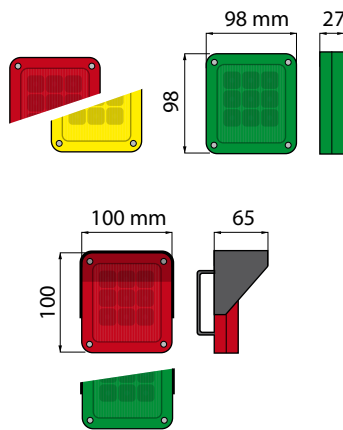
12Vdc / 24Vdc
24Vac
230Vac (with power supply
code APE-550/3012)

Operating Temperature

-20°C, +60°C

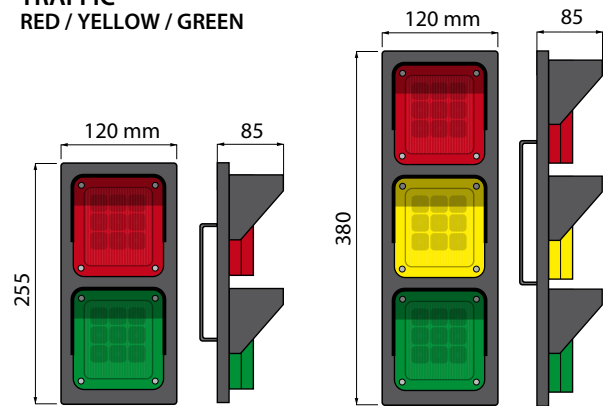
Stainless steel screws

Metal structure



TRAFFIC1 RED / GREEN

TRAFFIC RED / YELLOW / GREEN



TRAFFIC2

TRAFFIC3



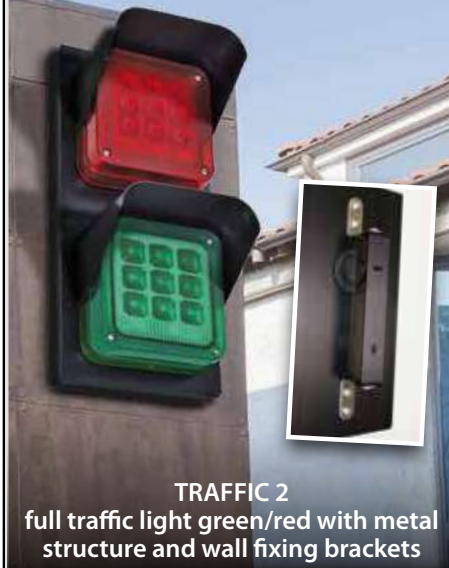
APE - 550 / 3040



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



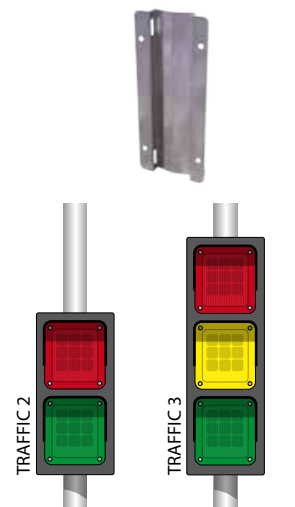
YELLOW TRAFFIC 12/24v
traffic lights/led
signaller yellow "max light"

APE - 550 / 3004



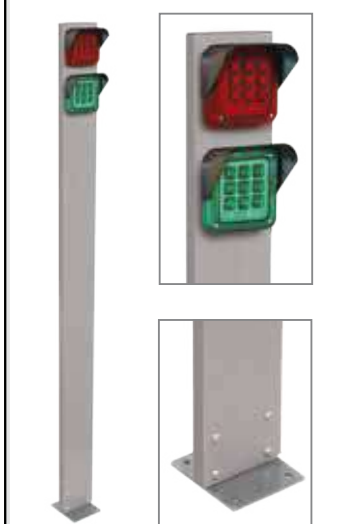
GREEN TRAFFIC 12/24v
traffic lights/led
signaller green "max light"

APE - 150 / 5021



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

APE - 550 / 3022



TRAFFIC COLUMN
120x20x1490h mm with TRAFFIC

APE - 550 / 3009



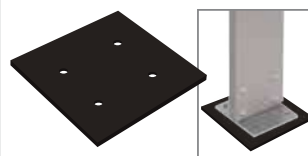
TRAFFIC COVER
metal roofing



> see control units for management systems traffic lights

**VERSIONI SPECIALI
E OEM
SU RICHIESTA**

APE - 550 / 3023



BASE
245x295 mm for column

APE - 550 / 3012



TRAFFIC DRIVER
converter 230/12Vdc



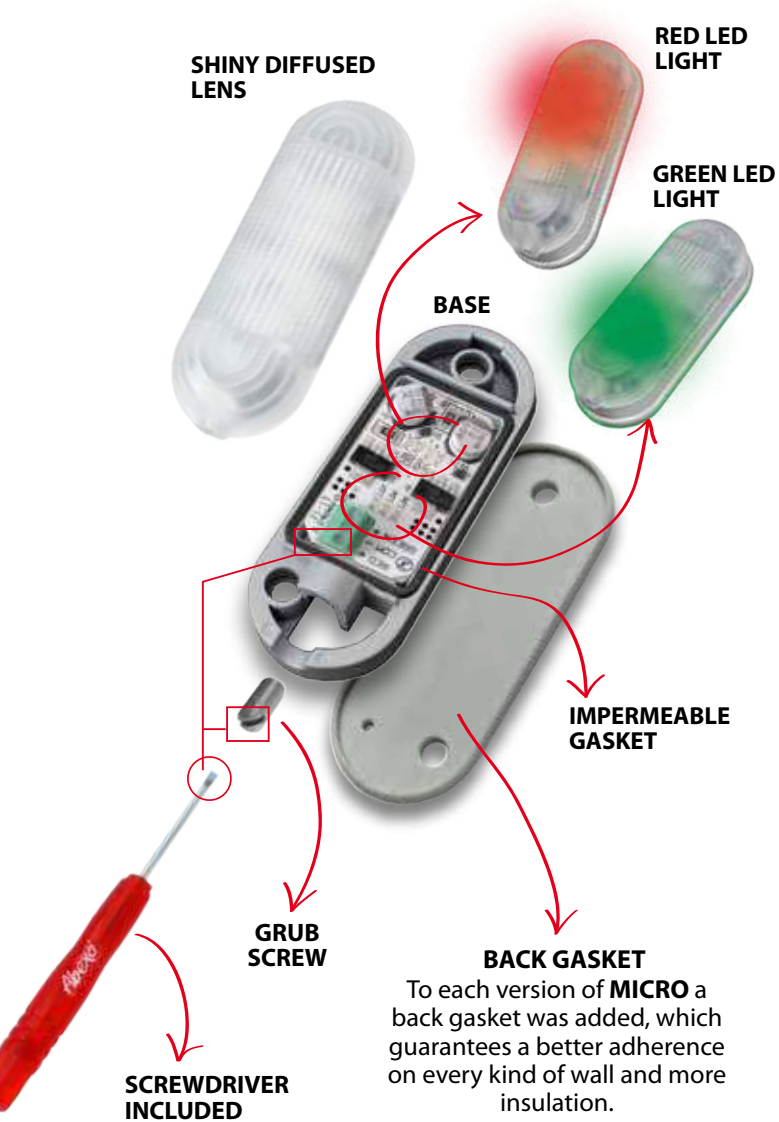
Led flashing lights/
Led traffic light for pedestrian access points



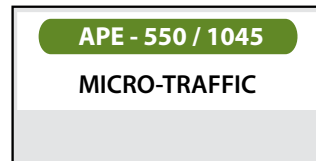
MICRO-TRAFFIC



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).



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



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"/> <input type="checkbox"/> IN Green <input type="checkbox"/> <input type="checkbox"/>	IN Red <input type="checkbox"/> <input type="checkbox"/> IN Green <input type="checkbox"/> <input type="checkbox"/>	IN Red <input type="checkbox"/> <input type="checkbox"/> IN Green <input type="checkbox"/> <input type="checkbox"/>	IN Red <input type="checkbox"/> <input type="checkbox"/> IN Green <input type="checkbox"/> <input type="checkbox"/>	IN Red <input type="checkbox"/> <input type="checkbox"/> IN Green <input type="checkbox"/> <input type="checkbox"/>	IN Red <input type="checkbox"/> <input type="checkbox"/> IN Green <input type="checkbox"/> <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





TRAFFIC CONTROL



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 congruate 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 A30-A31



Photocells and safety devices



Wired safety edges ACTIVE / A38
Radio safety edges ACTIVE-R3 / A39
CRASHLESS safety edges CAPTIVE / A40
Photocell MICRO-P27S / A42
Reflective photocell REFLEX / A44
Photocells INFRA16, P41, P37B, SW50 / A46
Crushing force gauge for gates and motorized doors CERTIFIKO / A48

Abexo[®]
AUTOMATION ACCESSORIES

ACTIVE

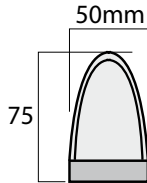
CONNECTION

WIRE (cable)



TECHNICAL DATA

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



MECHANICAL SPECIFICATIONS

rapid connector for an easy disassembly

simple cable tensioning adjustment

electronic and microswitches protected by a cover

locking wedge for transport

contact output **NC**

resistive output **8.2K Ω**



APE - 534 / 0015
length 1,50 mt

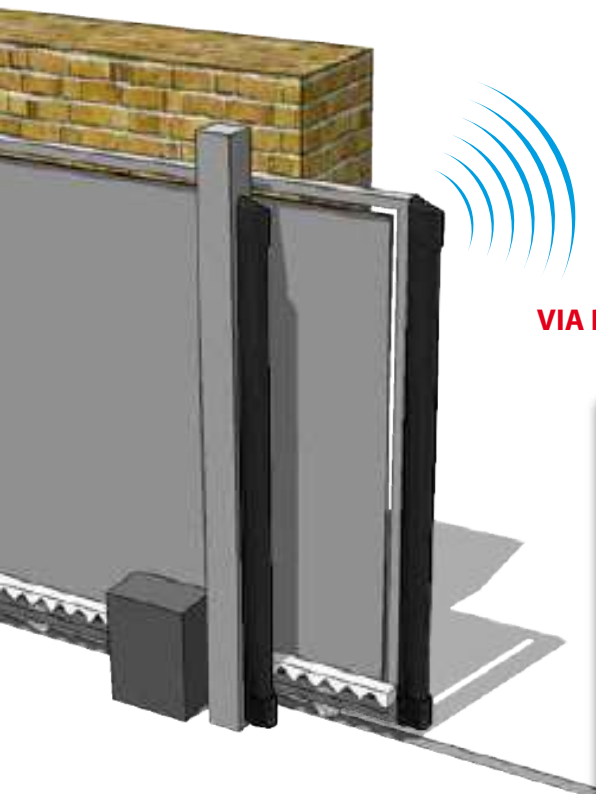
APE - 534 / 0017
length 1,70 mt

APE - 534 / 0020
length 2,00 mt

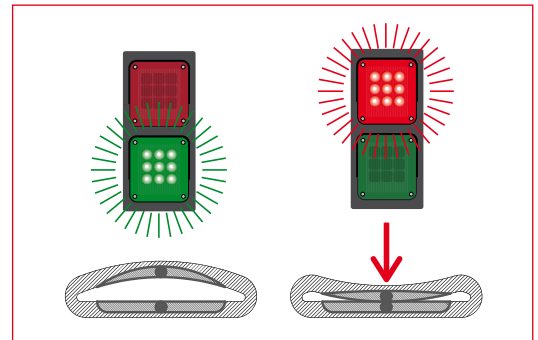
APE - 534 / 0025
length 2,50 mt



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

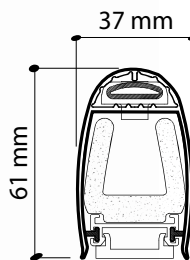
3G RB3 R868



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

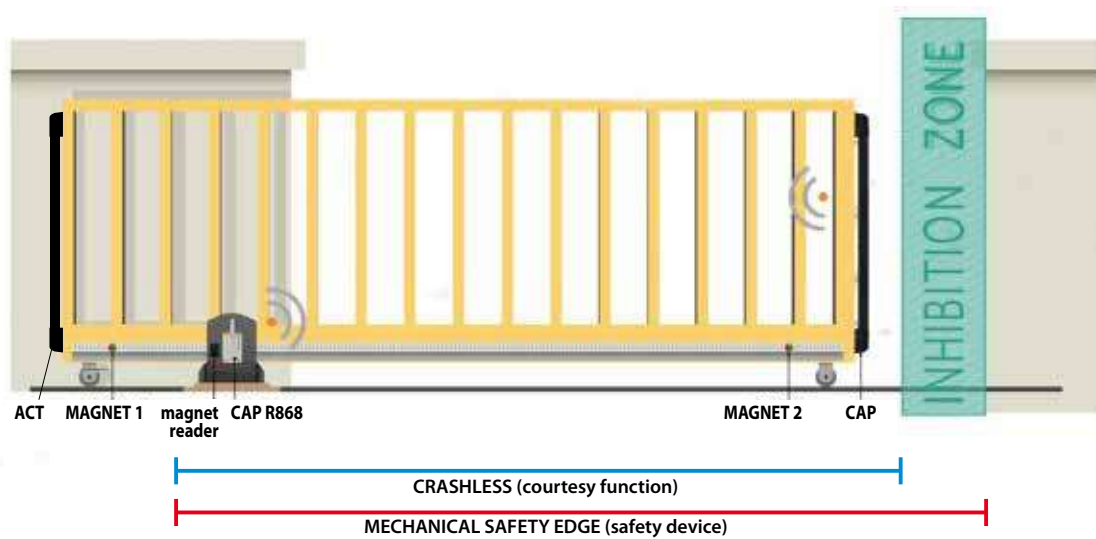
APE - 563 / 3320

length 2,00 mt

APE - 563 / 3325

length 2,50 mt

CAPTIVE



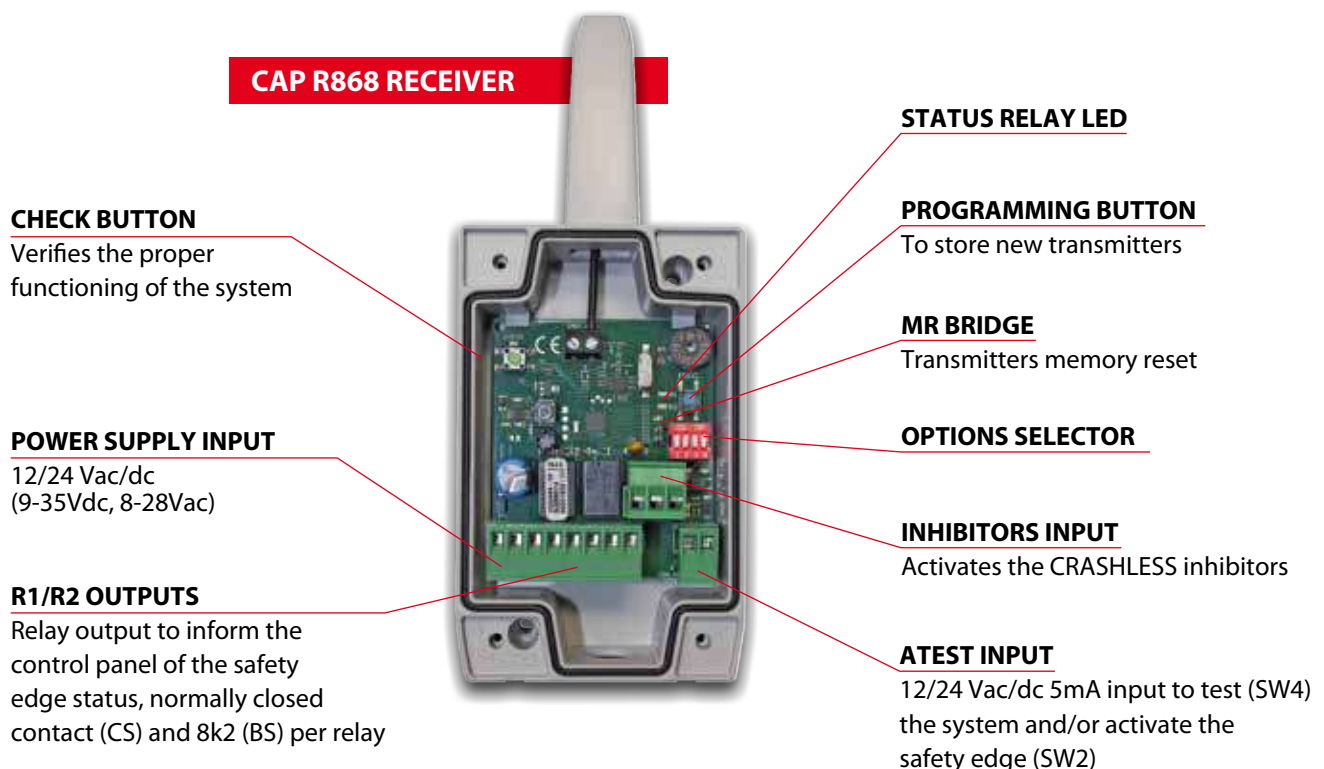
The resistive safety edge, CAP (8,2 k Ω) is a class 2 safety device.

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:

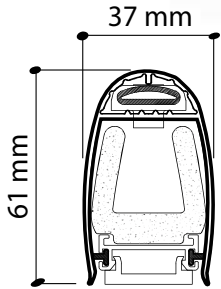
- Deactivate the capacitive part when the gate is not moving, saving energy from the battery
- During the closing movement, they deactivate the crashless function (the capacitive device would read the column of the gate as an obstacle) keeping the safety edge active.

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

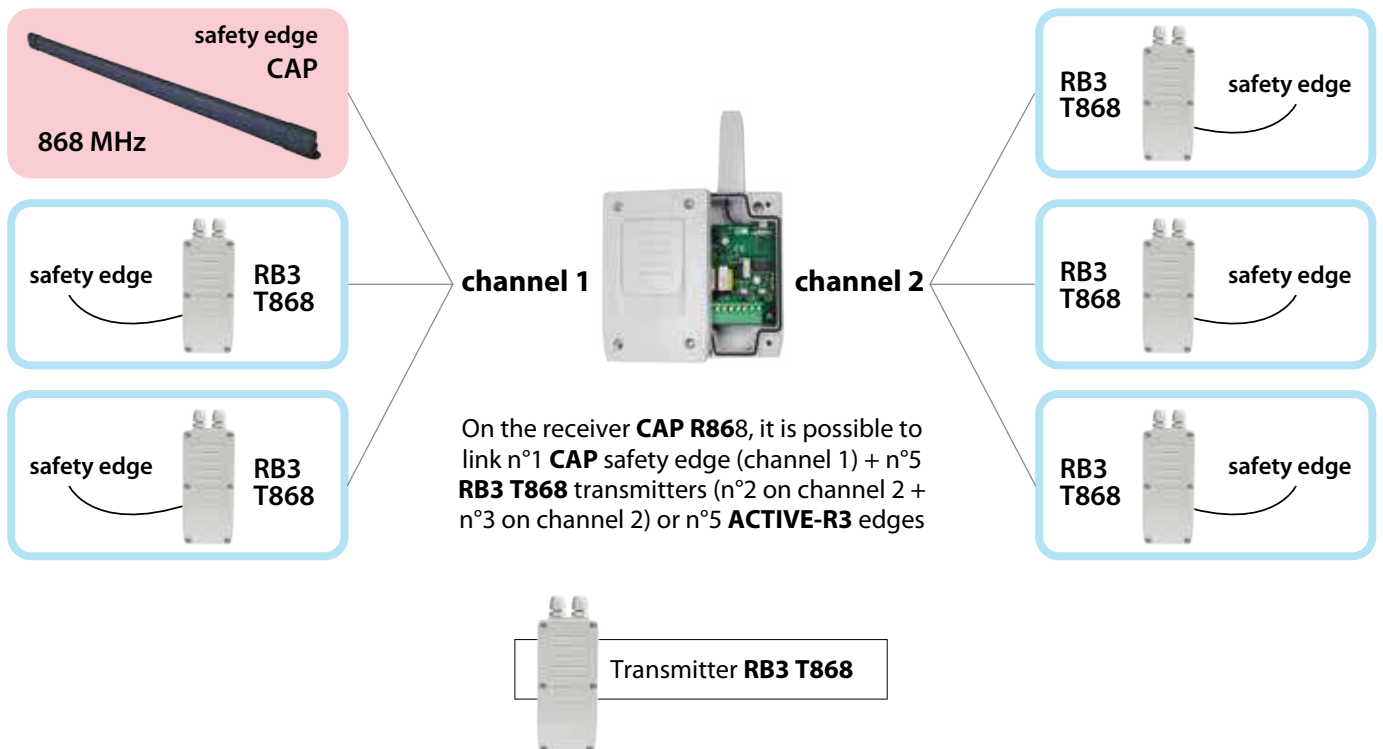
JCM-1006158
CAP R868 receiver



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.

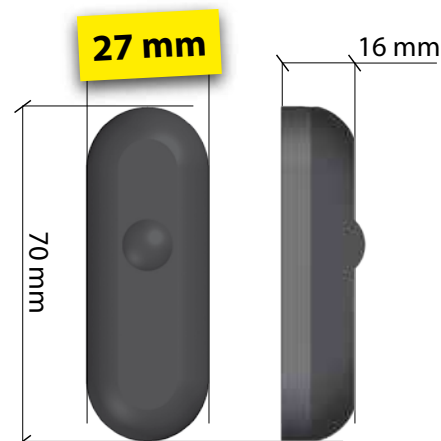
The design was thought taking inspiration from the one of the Micro-Flash e Micro-Traffic, miniaturized and equipped with terminals. To maintain compact dimensions and guarantee maximum performance, an innovative choice was made: using a relay (miniaturized as well) with **REED technology**.

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.

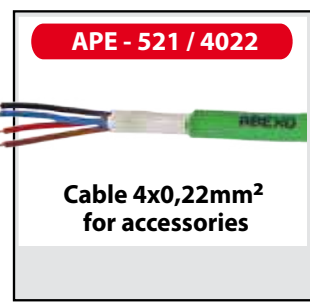




This photo was kindly granted by Ballan SPA



Matching designs



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



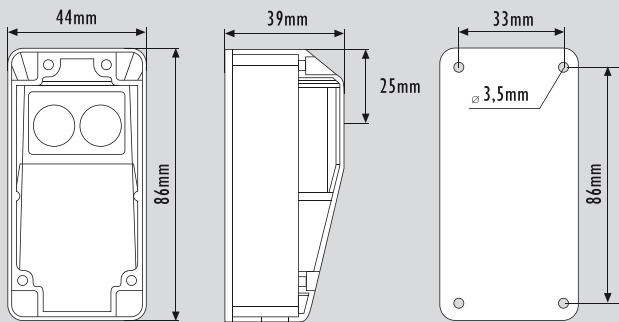
REFLEX



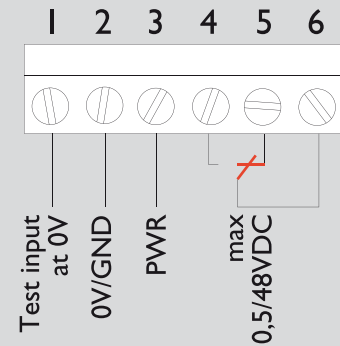
- QUICK AND EASY INSTALLATION REQUIRES THE WIRING FROM ONE SIDE ONLY.
- ON THE OTHER SIDE A REFLECTOR IS FIXED AT THE SAME HEIGHT OF THE PHOTOCELL.
- ALIGNMENT BETWEEN REFLECTOR AND PHOTOCELL IS FACILITATED TO POSITIONING LED (SEE DETAIL DRAWING "ADJUSTMENTS").
- THE FORM REFLECTOR VARIES DEPENDING ON 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

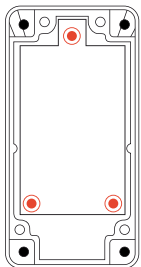
DIMENSIONS



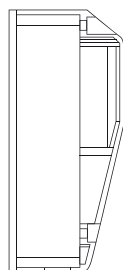
CONNECTIONS



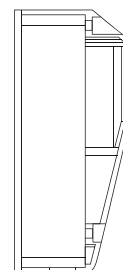
SETTING



Optimal installation after assembly
3 screws beam adjustment



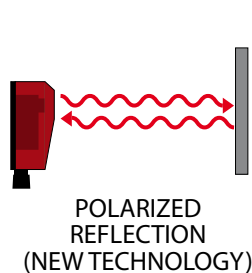
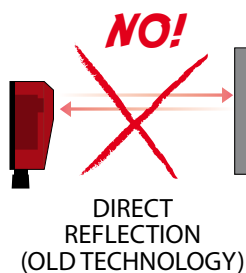
FIXED LED LIGHT
optimal positioning



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.





by



WITT Sensoric
A Pepperl+Fuchs Brand



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

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

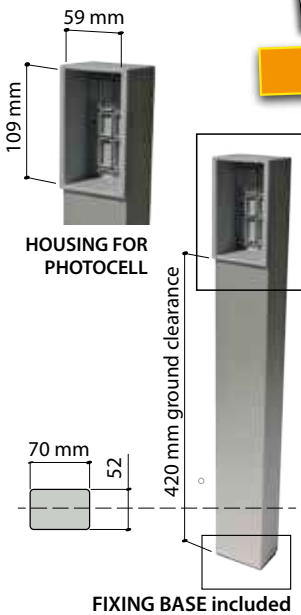


Square reflector
15m. range - W. / H. = 100mm

APE - 550 / 5035

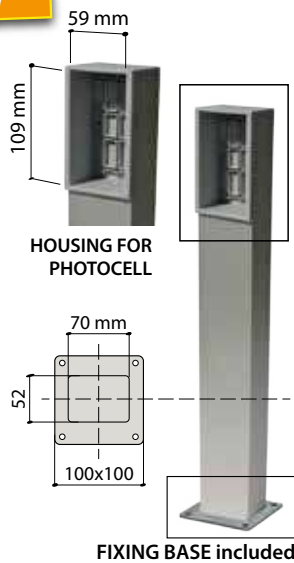


NEW



DORICA CAP
Universal aluminium
column with housing for
photocell h=533mm

APE - 550 / 5040



DORICA 10x10 CAP
Column h=533 mm with
housing and fixing base

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 / 2000



Pair of universal brackets
for Reflex and reflector
positioning

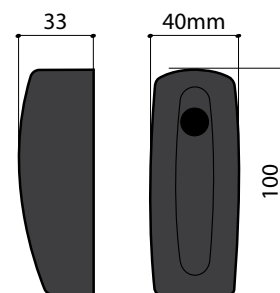
**DISCOVER THE
ENTIRE RANGE OF
DORICA
COLUMNS
on page A76**

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**

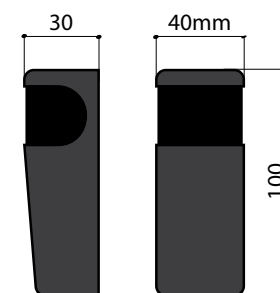
P41

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



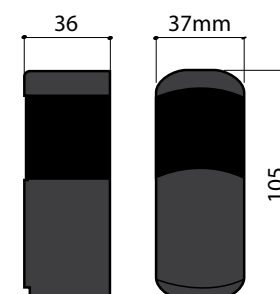
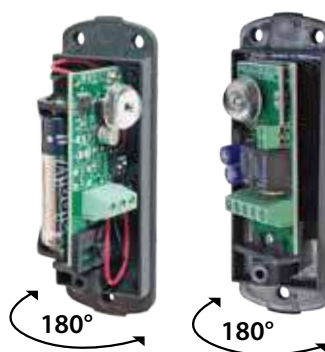
Receiver:

- 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

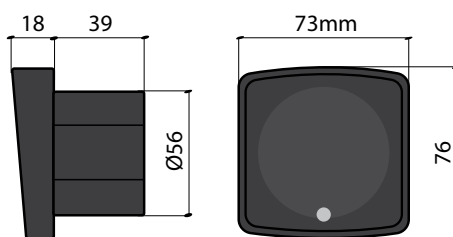


Interchangeable with the most widely used recessed photocells on the market.

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

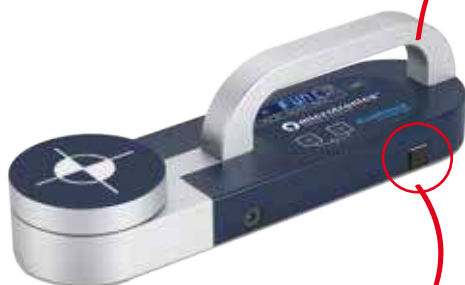
AC input voltage : 100-240 Vac
 Output voltage: 24 Vdc
 Rated c/out current: 0,25-0,13 A
 Output current: 0,5 A
 Dimensions: 56 x 32,5 x 56 mm
 Weight: 0,06 kg

Application examples:

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

CERTIFIKO

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



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.

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

Firmware: aggiornabile in modalità wireless

Batteria: ricaricabile, agli ioni di litio

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



TECHINCAL 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

For the price contact the customer service

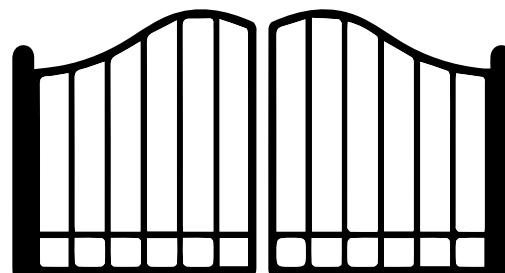
SECURE YOUR MOTORIZED LOCKS

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:

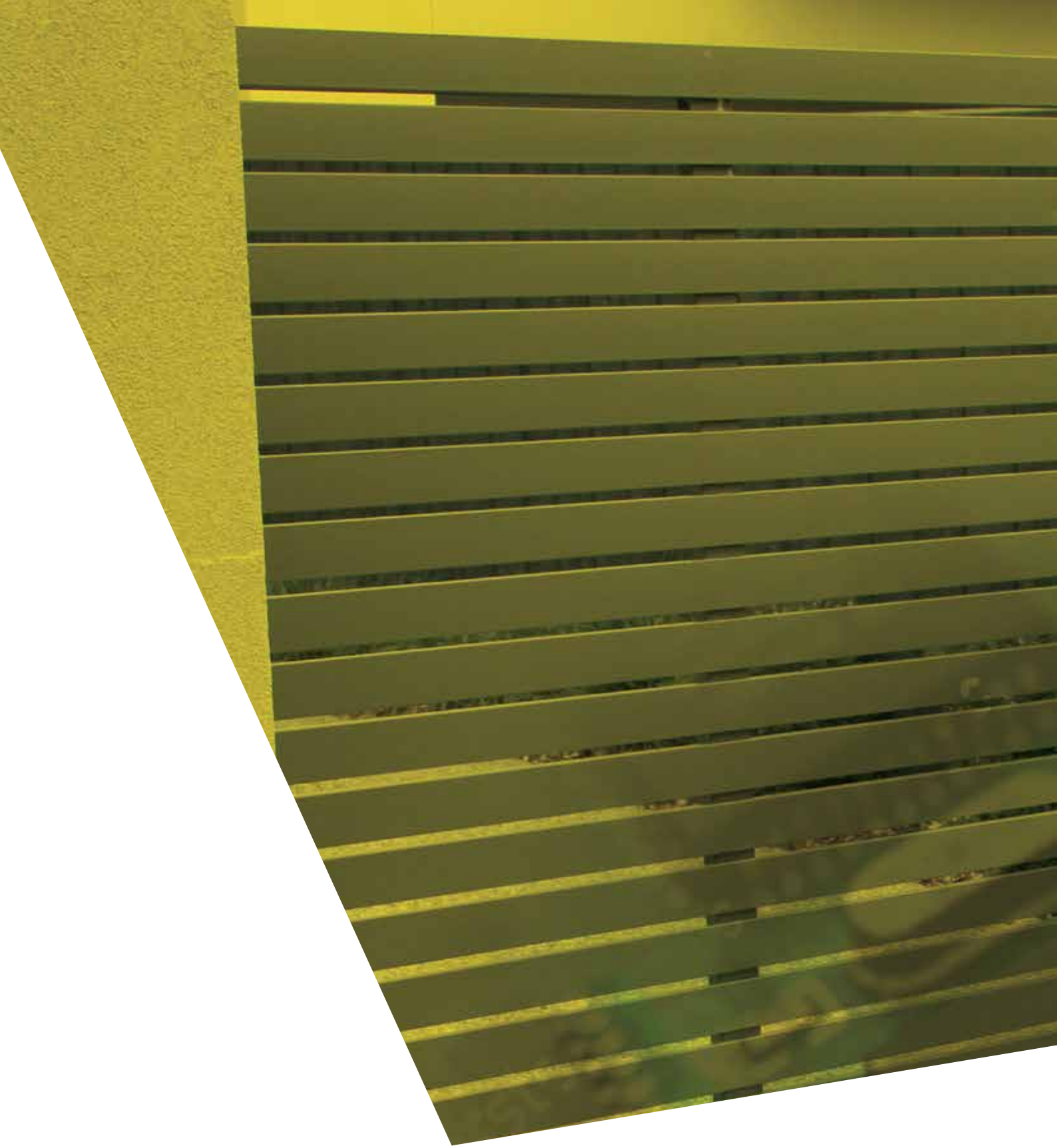
- EN 12453 - Industrial, commercial and garage doors and gates - Safety in use of motorized doors, Requirements and test methods
- EN 16005 - Motorized pedestrian doors - Safety in use, Requirements and test methods.
- EN 60335-2-95 - Particular requirements of vertically moving garage doors for residential 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



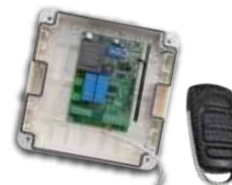
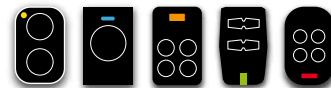
Control unit and accessories for motorized rolling shutters SH230 / A52
Central unit with remote control-controlled electric brake SH230POWER / A53
Control unit for motorized rolling shutters with integrated courtesy light SH230LUX / A54
Control unit 051D / A56
Central control unit for sliding gates K82 / A58

Abexo[®]
AUTOMATION ACCESSORIES

SH230



COMPATIBLE WITH MANY TRANSMITTERS 433 MHz (*)



APE - 528 / 0244

Kit control unit SH230 + SH4 transmitter

(*) see user manual

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.

APE - 528 / 0230



SH230 – control unit for shutters with box

ELECTRO-LOCK AND KEY-SWITCH



PHOTOCELLS



APE - 528 / 3040



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

Technical data:

- Power supply: 230 Vac 50hz +/-10%
- Motor power: 1350W
- Working time: adjustable, max 2,5 minutes
- 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

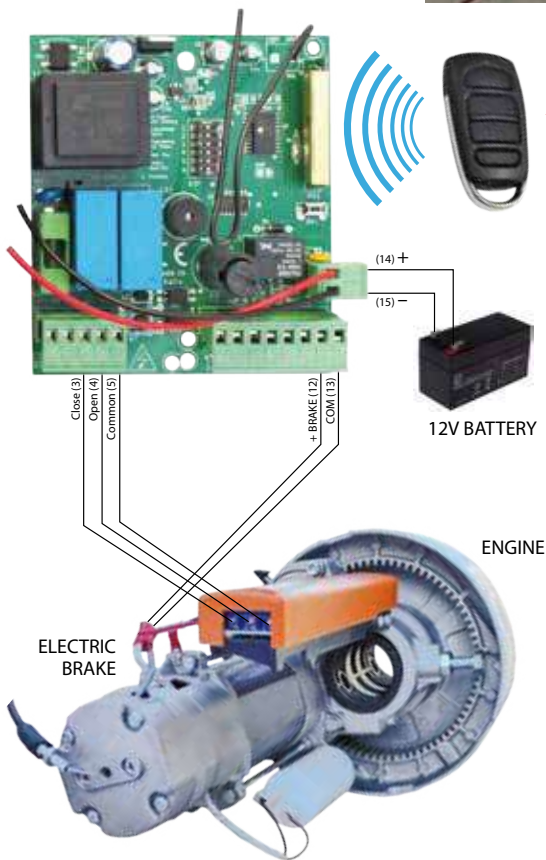
Universal control units/
**Central unit with remote control-controlled electric brake
 for motorized rolling shutters**



SH230POWER

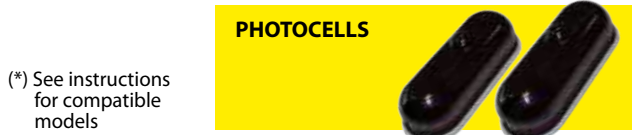


SH230POWER is an electronic control equipment with integrated receiver compatible with all 433 Mhz fixed codes and some 433 Mhz* rolling codes. Its special feature is the ability to be able to drive and unlock the electric brake of shutter motors even in case of 230V power failure thanks to a backup 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 2,5 minutes
- 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: 145x195hx50mm
- Operating temperature: 0°C, +70°C



(*) See instructions for compatible models

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

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
(12Vdc)

NEW

APE - 528 / 3040

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



Universal control units/
**Control unit for motorized rolling shutters
 with integrated courtesy light**



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>

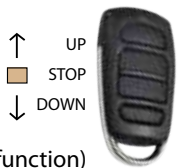
Radio module 433,92 MHz

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.)



APE - 550 / 1036.W
ALF6W



Output for
courtesy
light

Output for
flashing light

APE - 550 / 1034

ALF6BT





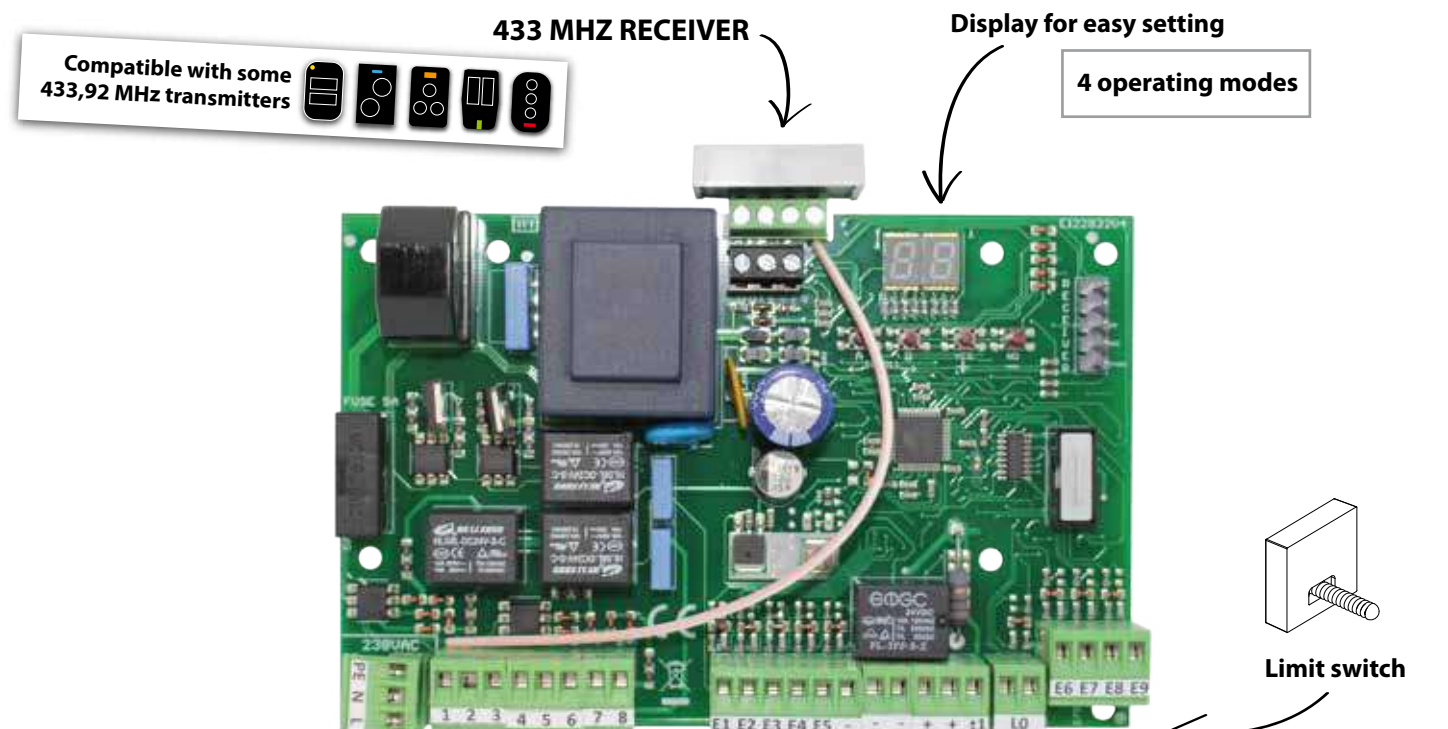
Universal control units/
**Control unit compatible with
 230V electromechanical and hydraulic engines**



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

#INDEPENDENT REGULATION OF THE MOTORS

Dagnostic: wiring of motors

MOTOR A	DESCRIPTION	
R1	14	*** WORKING TIME
R2	7	>:1 SLOWDOWN TIME
R3	0,8	*** START UP TIME
R4	0,6	>:2 DELAY AT CLOSING
R5	0,6	% STANDARD MOTOR FORCE
R6	1,0	% SLOWDOWN MOTOR FORCE
R7	n	% STANDARD OBSTACLE DETECTION THRESHOLD
R8	n	% SLOWDOWN OBSTACLE DETECTION THRESHOLD

MOTOR B	DESCRIPTION	
b1	14	*** WORKING TIME
b2	7	>:2 SLOWDOWN TIME
b3	0,8	*** START UP TIME
b4	0,3	*** DELAY AT CLOSING
b5	0,6	% STANDARD MOTOR FORCE
b6	1,0	% 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

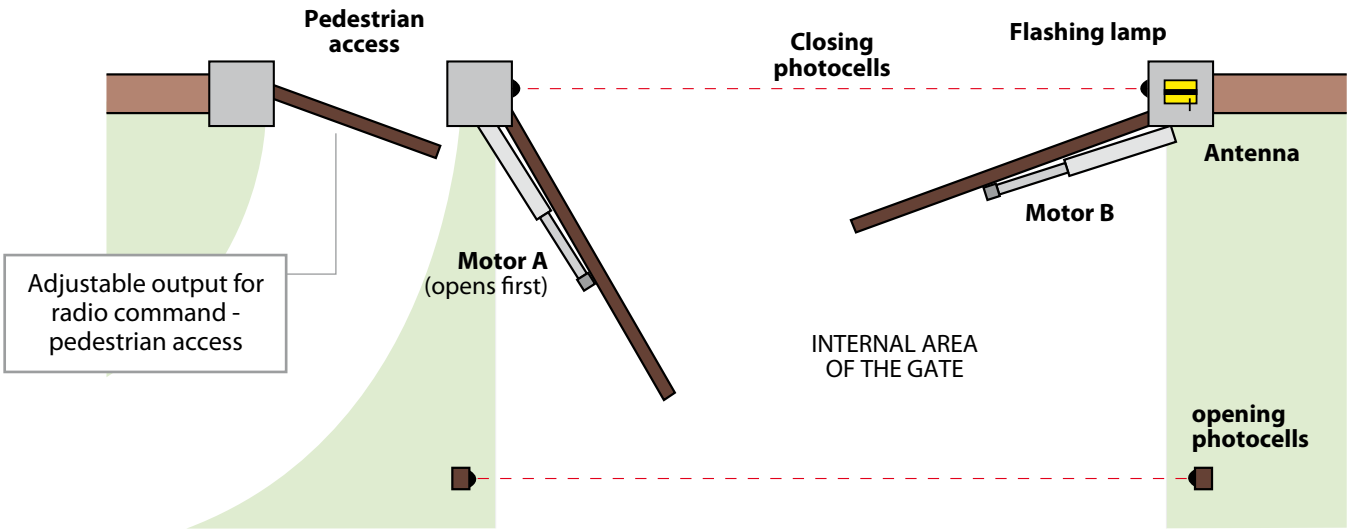
#INPUT DIAGNOSTIC
 Signal and priority management of the problems found. Once the resolution of the errors is completed, the control unit can signal a new error or show "ready-to-go"

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

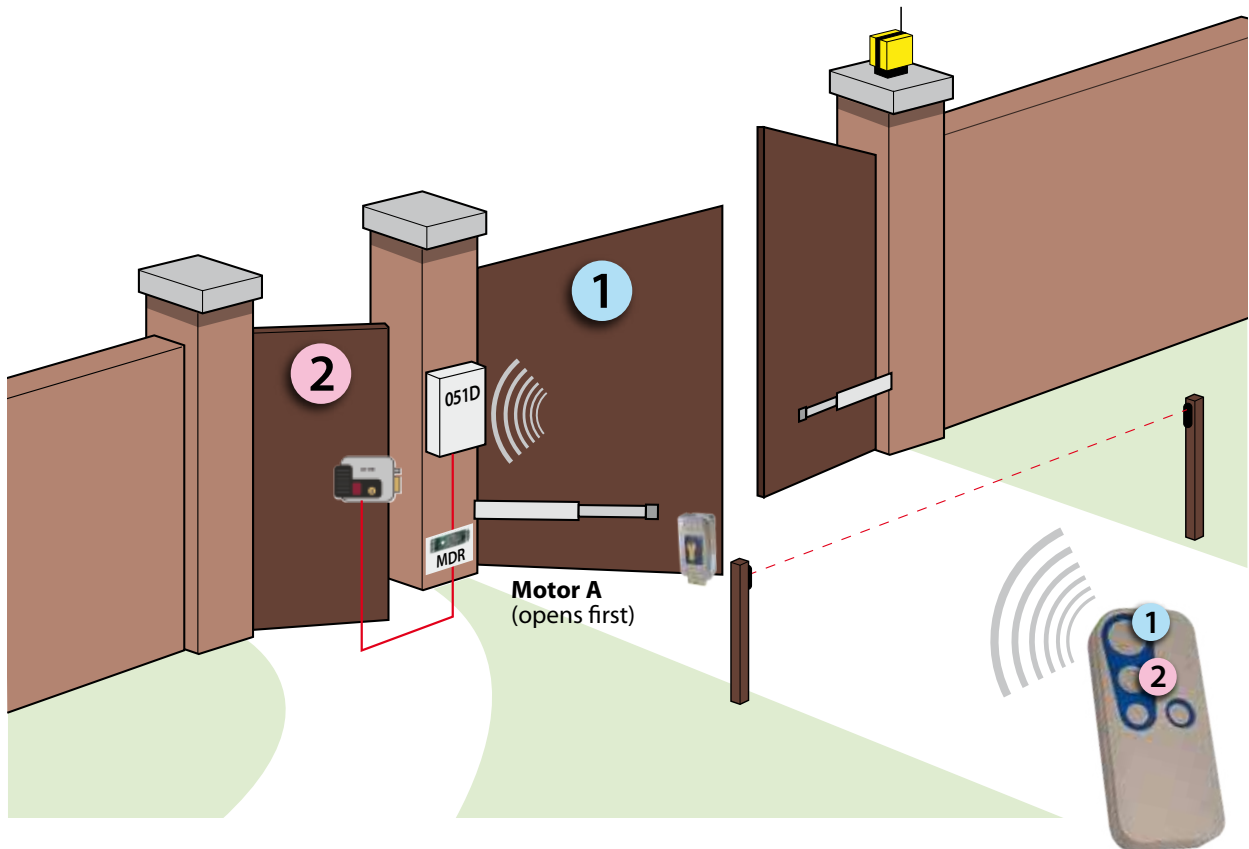
Technical features

- 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**

K82

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.



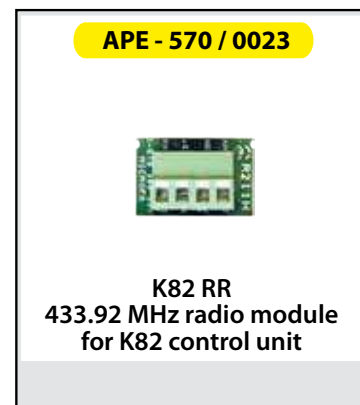
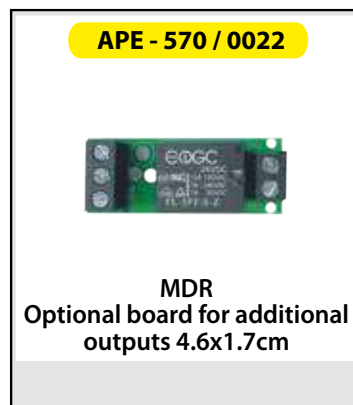
Main functions

- 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, condominial, step-by-step,
 step-by-step with automatic closing





Detectors, Pedestrian and industrial Sensors



Metal mass detectors MAGNETIX / A62
Microwave detector for industrial door control RM620 / A63
Industrial door sensors (opening and safety) KABUTO / A64
Sensors for automatic doors / A65

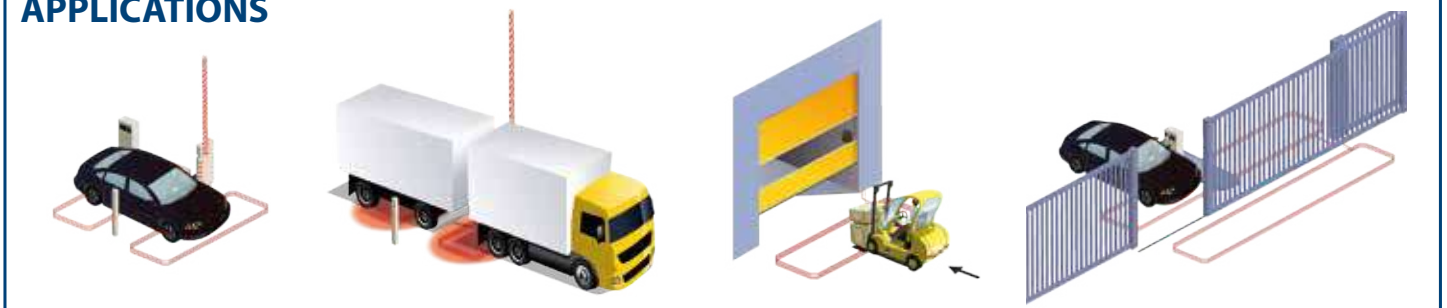
Abexo[®]
AUTOMATION ACCESSORIES

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

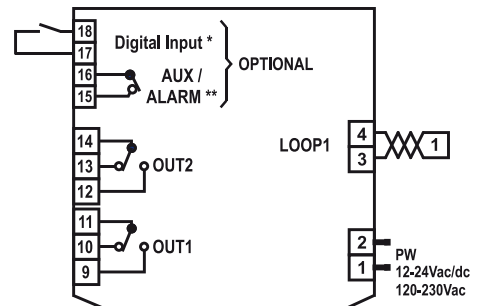


BASIC

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 supplynd in the fault condition

APE - 550 / 1224

BASIC-DGL

12-24V detector 2
channels for DIN rack

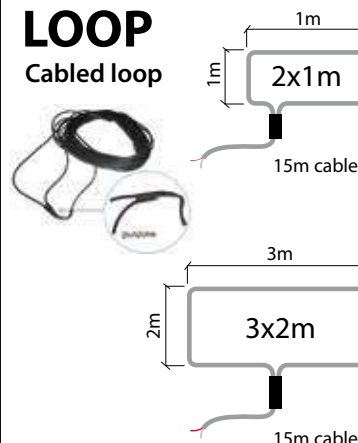


- Technical details like **BASIC**, but more:
- 10 sensitivity levels
 - Selection of the type of action: just 1 loop / 2 independent loops / with or without direction signal
 - Display of every loop working frequency
 - Stability check of loop frequency to test the loop correct installation
 - Dynamic 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

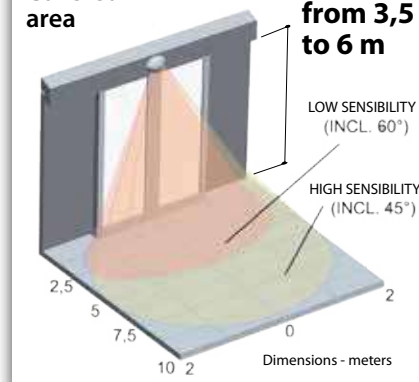
MICROWAVE
technology



TECHNICAL DATA

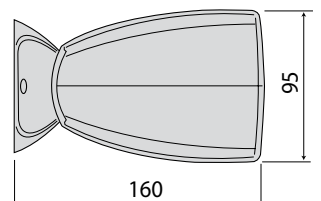
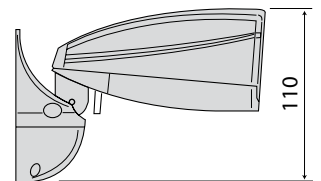
- Power: 12/24ac/dc
- Absorption: 50 mA max
- Frequency: 9,90 GHz
- Degree of protection: IP66
- Output power: ≤ 14 dBm
- Relay contacts: 1A - 24Vac/dc
- Time relay control: 1-6 sec adjustable
- **Maximum height of installation: 6m**
- **Speed of detection: 0,1 m/s minimum**
- Range: 1-10 m Adjustable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

Covered
area



from 3,5
to 6 m

Dimensions



unidirectional/bidirectional, X band sensor

APE - 551 / 0620

Microwave sensor for
industrial doors
RM620

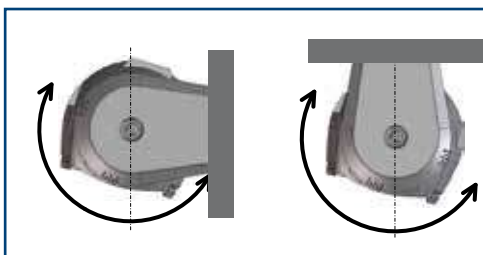


KABUTO

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.



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 ±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)

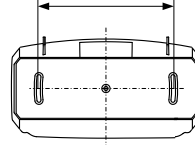
Weight: 1,3 kg

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

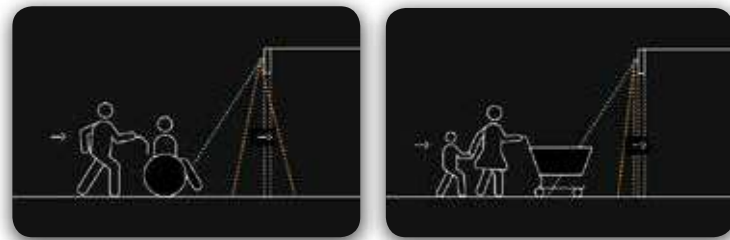
SSR-3/BL

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.

- Technology: microwave + active infrared
- Supply voltage: 12-24 Vdc/Vac ± 10%
- Current consumption: 80 mA (24 VDC)
- Installation height: adjustable 2000-3200 mm
- Temperature range: -20°C to +60°C
- Degree of protection: IP54
- Dimensions: 265 x 60 x 43mm



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.

- Technology: active infrared reflection
- Supply voltage: 12-24 Vdc/Vac ± 10%
- Current consumption: 60 mA (24 VDC)
- Installation height: adjustable 2000-3000 mm
- Temperature range: -20°C to +60°C



EN16005



HOT - HR100 - CT/BL

HR100CT Black color

- Output: Open collector 7.5mA (Min) load resistor
- Degree of protection: IP54
- Dimensions: 230 x 70 x 44 mm

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

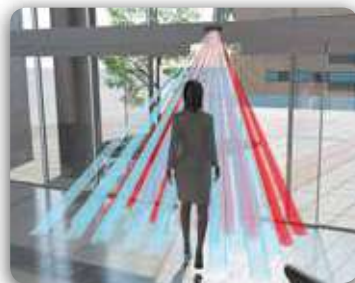
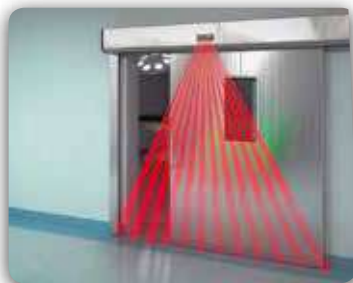
3H-IR14C/BL

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: 3000 mm 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

Microwave sensor with
directional sensitivity



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

- **Technology:** microwave
- **Supply voltage:** 12-30 Vdc, 12-24 Vac
- **Current consumption:** 40 mA (24 VDC)
- **Installation height: 4000 mm 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 \varnothing 10,6mm
- Power supply voltage: 12-24V
AC \pm 10% - 12-24V DC -5/+30%



APE - 737 / 002



INFRA2
photocells with amplifier

APE - 737 / 003



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 / A68
Mechanical buttons PUSH PLATES / A70

Abexo[®]
AUTOMATION ACCESSORIES

J-WAVE

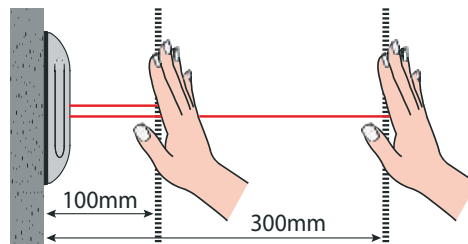
Non-contact door opening sensor
 infrared



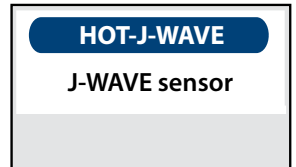
Slim low-profile design switch with touchless technology that limits germ spread and improves accessibility in healthcare, retail, and commercial environments. Fast reaction time with ability to detect very fast movements in front of the switch. J-Wave is made of a robust polycarbonate material with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

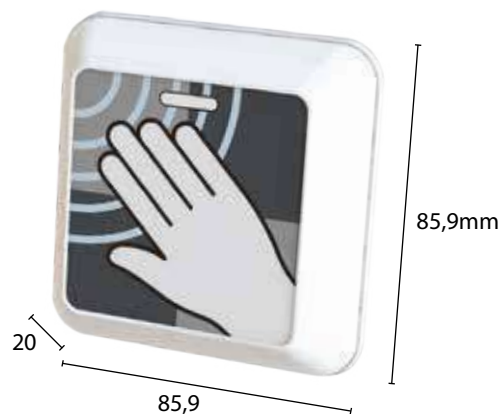


CLEARWAVE

Non-contact door opening sensor
 microwave

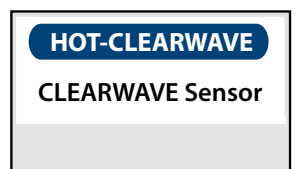
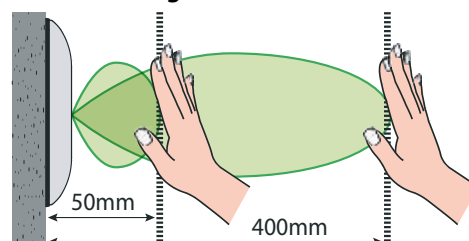


Door activation switch with microwave non-contact designed for situations where hygiene is a factor of primary importance, such as clean rooms, environments used in the processing of food products and chemical industry applications.



- **Technology:** microwave
- **Supply voltage:** 12-30 VDC, 12-24 Vac
- **Current consumption:** 40 mA (24 VDC)
- **Detection distance:** adjustable 50-400mm ±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

Detection range



AER WAVE

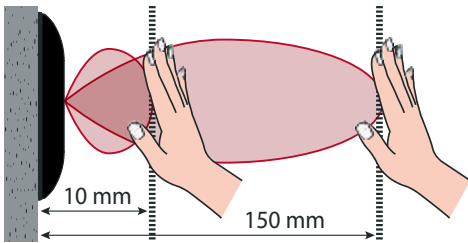
Infrared and wireless button for door opening without contact

- 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)

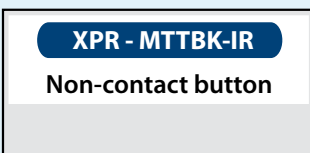


It is possible to register up to 10 AER WAVE buttons on a single WR-24 receiver

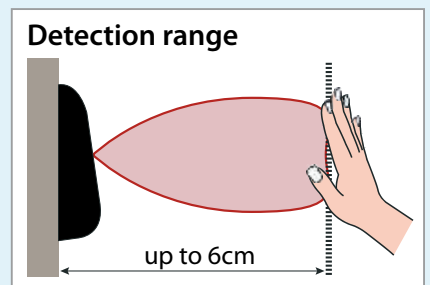


MTT-IR

Non-contact capacitive infrared 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



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



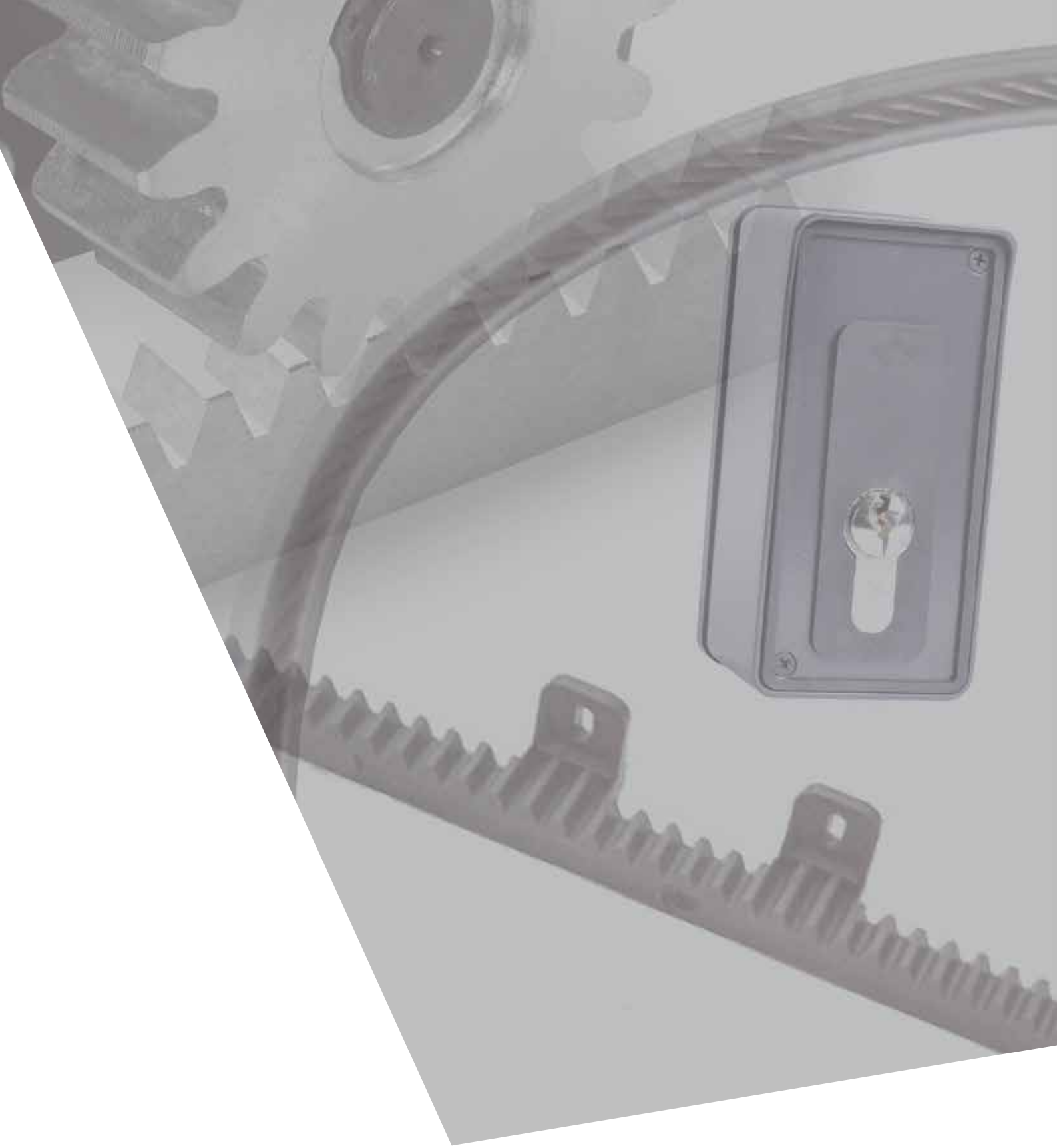
APE - 790 / 0119

PUSH TO OPEN - PBS



APE - 790 / 0119H

PUSH TO OPEN - PBSH



Manual Bar



MOVEO / A74

Devices and mechanical accessories



Universal aluminum columns DORICA / A76

Enclosures for stainless steel

electronic control units BOXX / A78

Protection module UNI-SAVE / A79

Racks and attachments / A80

“Parachute” brakes for sloping sliding gates CONTROLGIR / A82

Security Box / A83

Key-Switch / A84

Batteries / A85

Abexo[®]
AUTOMATION ACCESSORIES

MOVEO

**FOUNDATION PLATE,
FIXING BASE AND EXTERNAL
STAINLESS STEEL CARTER**

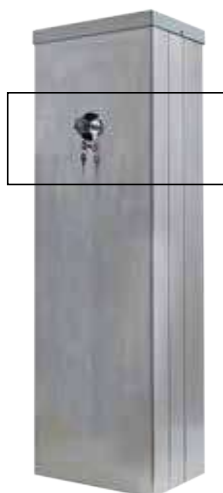
**THE BOOM IS BALANCED IN EVERY
POSITION, UP TO 5.30 m.**

**KEY MECHANICAL
UNLOCKING**

MANUAL BOOM

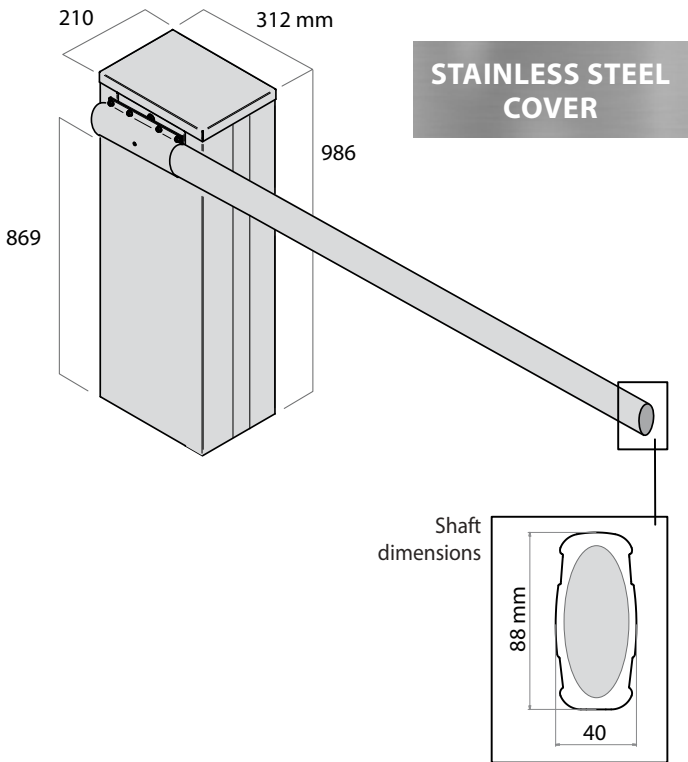


Safe boom unlocking system with key lock which guarantees a safe movement of the barrier



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
Stainless steel plate foundation

APE - 150 / 3004

FIXED TIP SUPPORT

BOOM

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

ACCESSORIES

APE - 150 / 3005

MOVABLE TIP SUPPORT
usable on booms up to 5,3 m

APE - 150 / 3052

SKIRT KIT length 2 mt
usable on booms up to 4,5 m

APE - 150 / 8038

UNI-SAVE
Universal protection module

DORICA

NEW

Aluminium columns series designed to provide a strong, durable and practical product for installing photocells, keypads, etc.

DORICA - DORICA 10x10 - DORICA H120

EXTERNAL ENCUMBRANCE
 the photocells are mounted outside the column

DORICA CAP - DORICA 10x10 CAP

NO EXTERNAL ENCUMBRANCE
 the housing for the photocell is located inside the column

ALL DORIC COLUMNS

RESISTANCE
 As the profile shape is extruded in aluminium, the structure of these columns is very resistant

DORICA - DORICA CAP

ORIENTABLE
 the column, via the included fixing plate included, can be orientated as desired

ALL DORIC COLUMNS

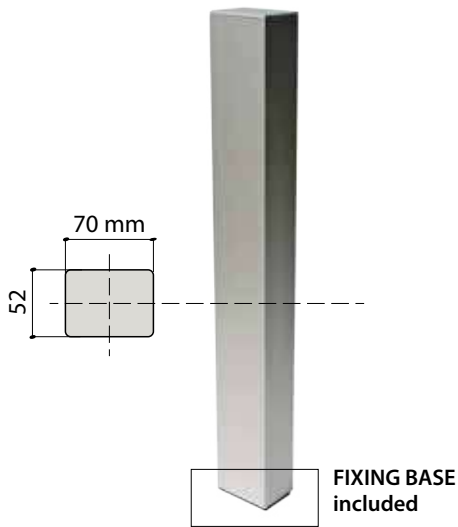
EASY TO WIRE
 the body column's, being composed of 2 sliding proles, can be opened to facilitate the wiring's cables

DORICA - DORICA CAP

FIXING PLATE ZERO ENCUMBRANCE
 the steel fixing plate does not protrudes laterally in relation to the column

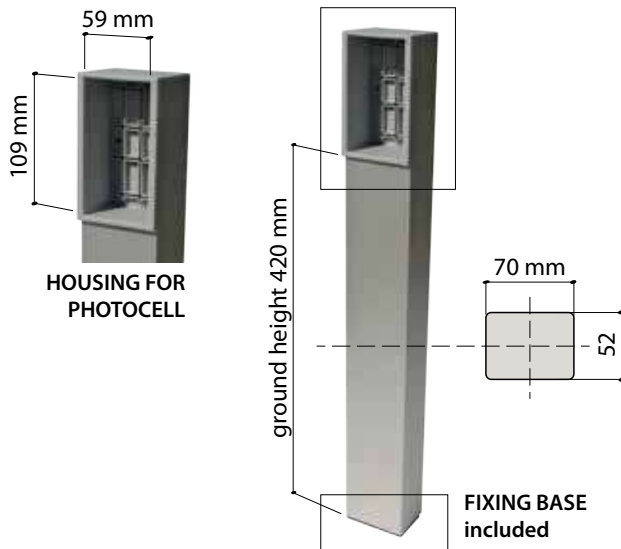
ALUMINIUM COLUMNS WITH "INVISIBLE" FIXING BASE

DORICA
 NEUTRAL UNIVERSAL
 aluminium column
 52x70x533h mm



APE - 550 / 5050
DORICA
 Neutral aluminium
 column h=533mm

DORICA CAP
 UNIVERSAL aluminium column
 52x70x533h mm
 WITH HOUSING FOR PHOTOCELL



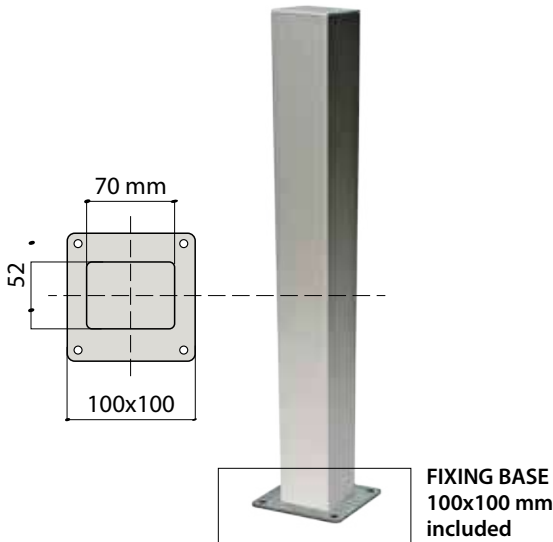
APE - 550 / 5035
DORICA CAP
 Column with housing
 for photocell h=533mm

ALUMINIUM COLUMNS WITH EXTERNAL FIXING BASE

DORICA 10x10

NEUTRAL UNIVERSAL

aluminium column 52x70x533h mm
 WITH EXTERNAL FIXING BASE 100x100 mm

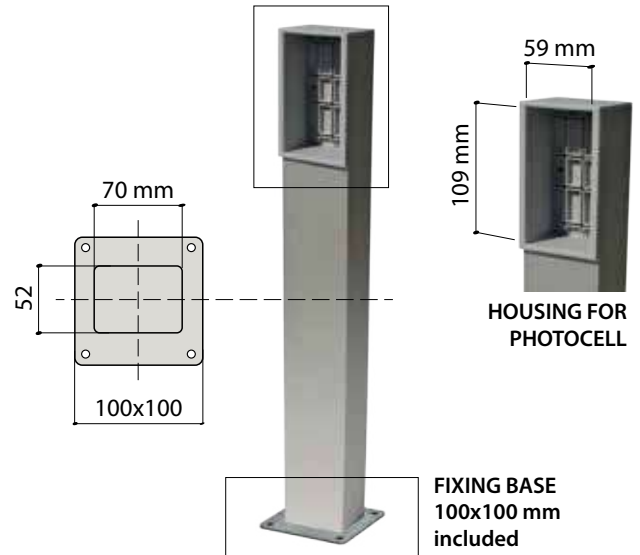


APE - 550 / 5060
 DORICA 10x10
 Neutral aluminium column
 h=533 mm with fixing base

DORICA 10x10 CAP

UNIVERSAL aluminium column

52x70x533h mm
 WITH HOUSING FOR PHOTOCELL
 AND EXTERNAL FIXING BASE 100x100 mm

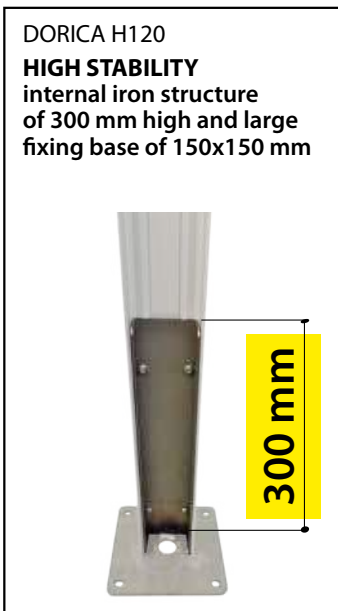


APE - 550 / 5040
 DORICA 10x10 CAP
 Column with housing for photocell
 h=533mm with fixing base

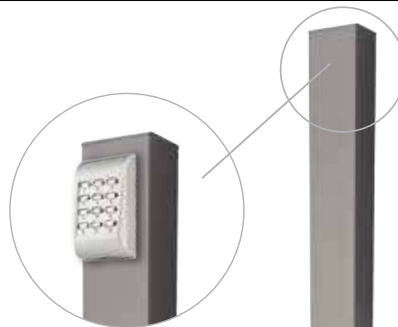
DORICA H120

NEUTRAL UNIVERSAL

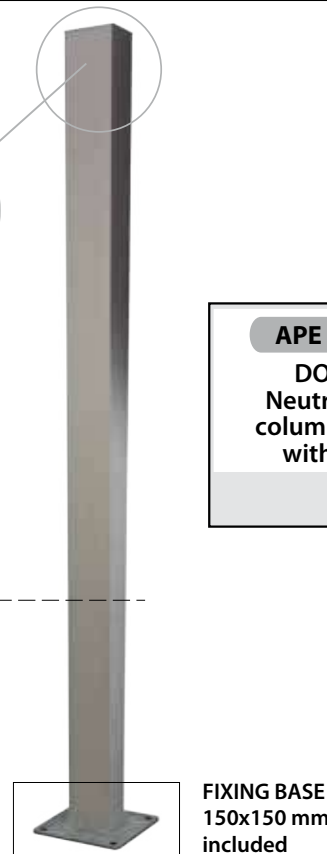
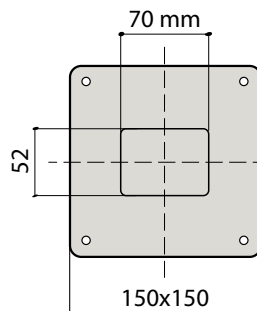
aluminium column 52x70x1200h mm
 WITH EXTERNAL FIXING BASE 150x150 mm



DORICA H120
HIGH STABILITY
 internal iron structure
 of 300 mm high and large
 fixing base of 150x150 mm



Ideal for use
 with keypads



APE - 550 / 5012
 DORICA H120
 Neutral aluminium
 column h=1200 mm
 with fixing base

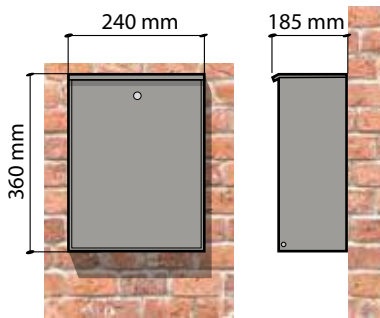
FIXING BASE
 150x150 mm
 included

BOXX

Line for central units cases

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.

WALL APPLICATION



=



BOXX
 Wall-mounted
 container

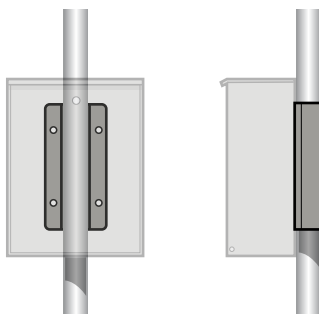
APE - 150 / 5020

BOXX

Technical characteristics:

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

POLE APPLICATION



=



BOXX-STP
 Mounting bracket
 BOXX pole

APE - 150 / 5021

BOXX-STP

+

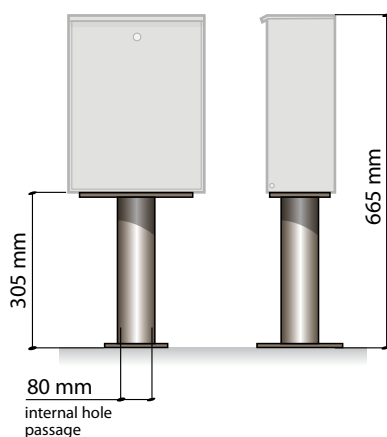


BOXX
 Wall-mounted
 container

APE - 150 / 5020

BOXX

FLOOR APPLICATION



=



BOXX-RISE
 Base support
 for BOXX

APE - 150 / 5025

BOXX-RISE

+



BOXX
 Wall-mounted
 container

APE - 150 / 5020

BOXX



BOXX-XL

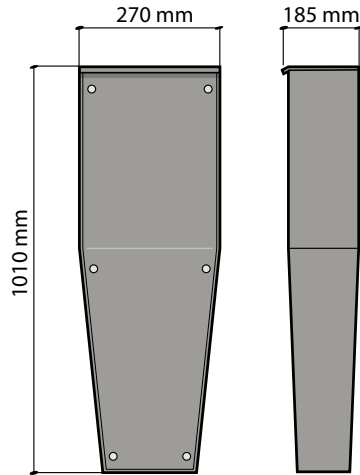
The extra-large BOXX version has been built to possess the maximum contentive capacity, so that it could hold switches, electric devices and central units.

Technical characteristics:

- Structure material: stainless steel

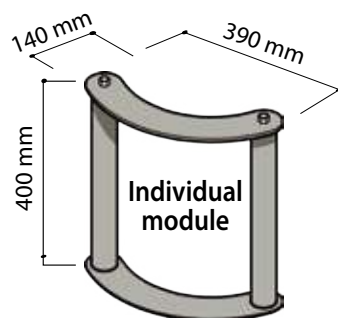
APE - 150 / 5045

BOXX-XL



UNI-SAVE

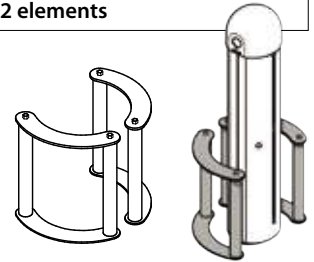
Universal protection module



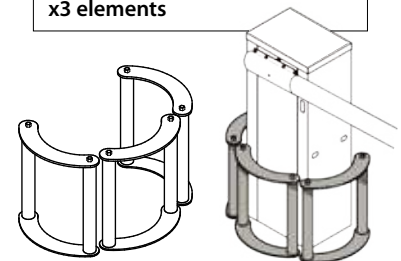
Round high-strength steel frame with steel columns.
 Peso 7,5 Kg

It is a universal module for the opening systems protection and more. It is composed of a modular metal structure that can be adapted to different uses, for example to protect the 'POLY' chain lifter (2 elements), on the 'MOVEO' manual barrier (3 elements) or for sliding gates gear motors.

configuration: **POLY-SAVE**
 x2 elements



configuration: **BARRIER-SAVE**
 x3 elements



APE - 150 / 8038

Individual UNI-SAVE module

CRP500

Nylon rack max 500 Kg (a) for sliding gates



- Single bar length 1mt
- 6 mts pack of tecnopolymer rack
- N.5 central fixing elements module 4/ screws included (5 screws per meter)
- Double sided toothting 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 length 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 length 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

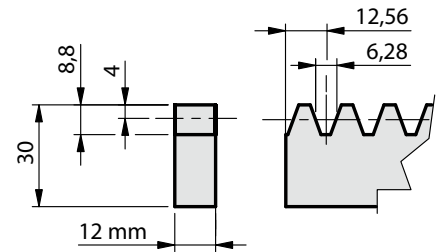


APE - 511 / 0060

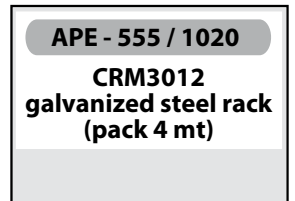
**Fixing elements for
 CRP700 and
 CRP1000 rack**

CRM3012

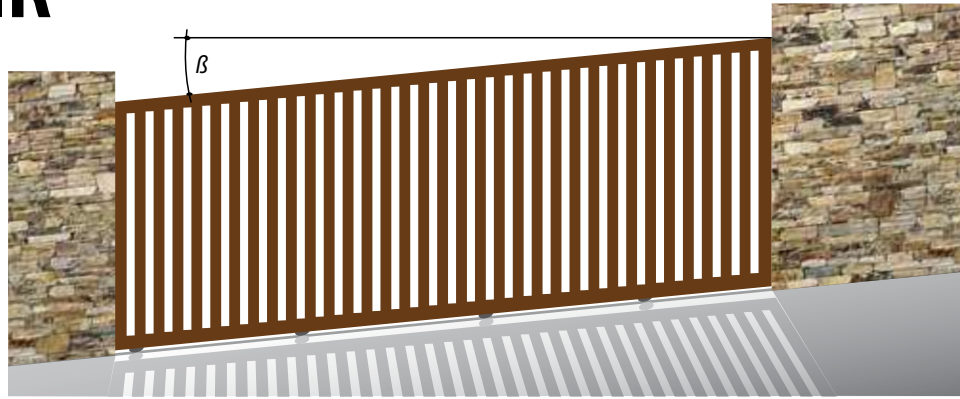
Steel rack for sliding gates



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



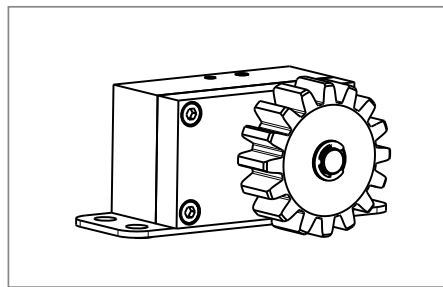
CONTROLGIR



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)



TECHNICAL DATA

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

Formula:

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

APE - 147 / 4004

Parachute break
3,2° - 7Nm

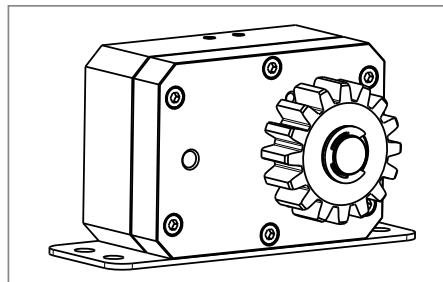
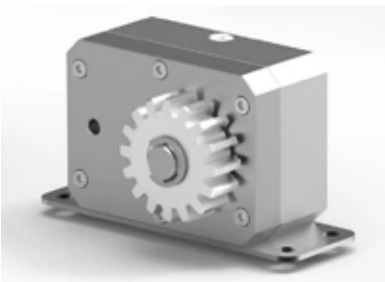
Send us the following technical data of your installation:

- 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)



TECHNICAL DATA

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

Formula:

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

APE - 147 / 4009

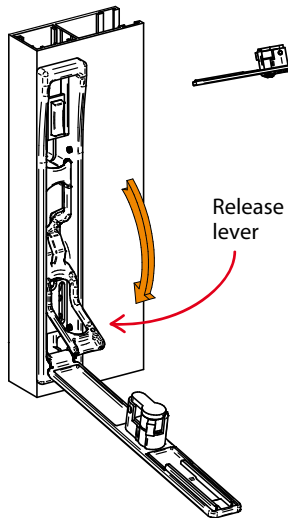
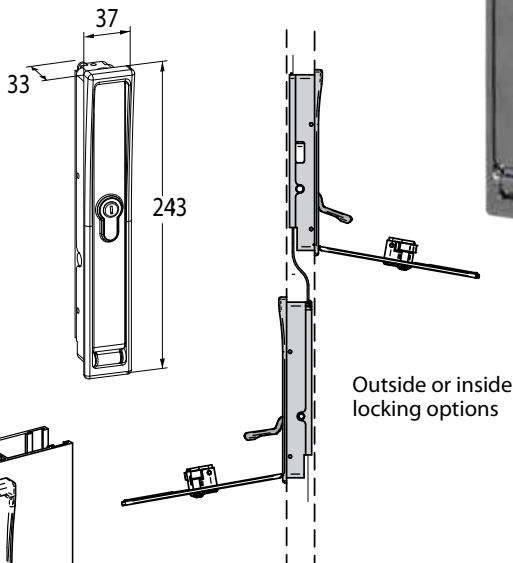
Parachute break
13,9° - 30Nm

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

cylinder
PREFER



Release
lever

APE - 556 / 1160
SLIM37-IN
Security box in-wall

SMALL53

Wall-mounted selector switch
with break release

- 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

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



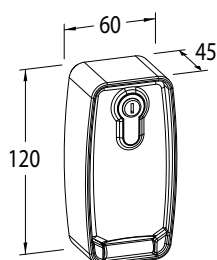
APE - 556 / 1154
SMALL53-IN
Flush-mounted selector
switch with break release

SMALL59

Aluminium security box
with break release
and push button

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

cylinder
PREFER



Release
lever

APE - 556 / 1150
SMALL59
Security box



EASY UNLOCK

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



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

ECO-KEY-IN

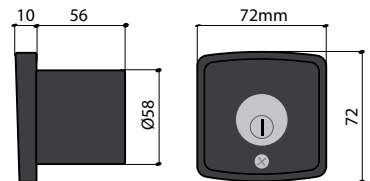
Two contacts flush-mounted key-switch



- 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



FLAT

Aluminium wall-mounted key-switch

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



APE - 136 / 6015
FLAT - Aluminium
 wall-mounted
 key-switch

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
 lenght = 530 mm

APE - 542 / 0070

COL70
 Fall prevention cable
 lenght = 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

Cable 4x0,22

Outer diameter 4.7mm
 Conductors 4x0.22mm²

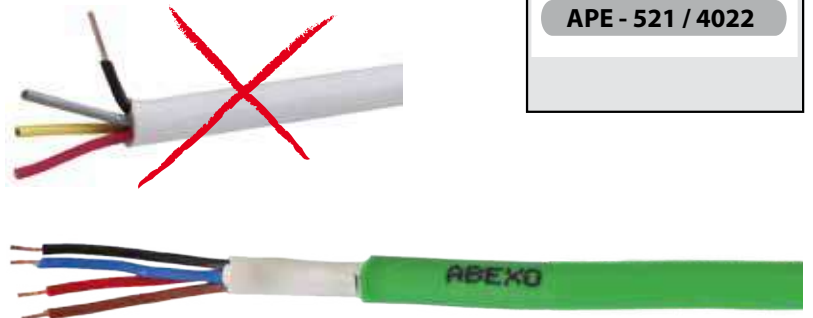
pack: 100mt

Ideal for:

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

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 U₀=400V
- Mobile pose: -10°C + 60°C
- Operating voltage U₀/U: 100/100V
- BBFlex sheathing resistant to oils and UV rays



APE - 521 / 4022

CR2032

CR2032 3V battery for EGO64, EGO433, EGO-PLUS 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 INDUS



APE - 550 / 9505



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.



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