

CATALOGUE 12

rev.1

Abexo
AUTOMATION ACCESSORIES

Valid from 1st March 2025

"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

ABtecno

ABOUT US

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

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

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

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

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



MISSION

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

www.abtecno.com

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.

Abexo® AUTOMATION ACCESSORIES

BeeMatic® HOME AUTOMATION

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
> Universal 6 channels transmitters: EGO KUBE
> 4 channels transmitters 433,92MHz: EGO433
> 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
from page A7



Industrial and Special Radio Products
> Industrial radio transmitters and receivers: INDUS, INDUS-RX
> Long range radio link: MARCONI 2.0
from page A19





Tastiere Standaalone
> Vandal-Resistant Standalone Keypad
> Proximity reader keypads
from page A25





Flashing lights, led traffic lights
> Led flashing lights: MICRO-FLASH, BLINK, MEGA BLINK, VOLT, ALF6, ALF-LUX
> LED flasher battery-operated and with motion sensor: POWERLED
> Universal spare board: RETROFIT, RETROFIT SLIM
> Universal high luminous efficacy spare board: MEGA RETROFIT
> Linear LED wall indicator: COBLED
> LED illuminators for gate area: NEONFLEX10, FLAT WHITE 12/24V
> Traffic light: TRAFFIC, MICRO-TRAFFIC, TRAFFIC COB
> Led signalling light: MICRO-RGB
> Central management unit for 2-way traffic light systems: TRAFFIC CONTROL, PARK
from page A31



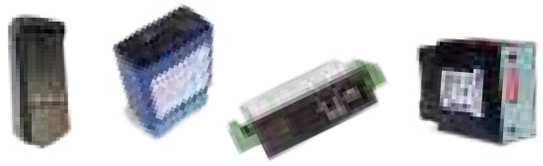


Photocells and safety device
> Laser detector for industrial gates and doors: FLATSCAN IP66
> Security sensor for industrial doors: LZR
> Laser technology sensor for industrial gates and doors: L36
> Sensitive safety edges: ACTIVE, ACTIVE-R3 and CAPTIVE
> Photocells: MICRO-P27S, REFLEX, INFRA 16, SW50, P41, P37B
> Infrared protective barriers: LIGI01, LIGI07
> Compact synchronised photocells: ARGOS
> Photoelectric immaterial barriers for sectional and high-speed doors: AOS
> Optics for sensor profile: WS-SIGNAL 15, LOW POWER SIGNAL
> Spiral cable: SPK
> Crushing force gauge for gates and motorized doors: CERTIFIKO
from page A49



CONTROL ACCESS DISTRIBUTION

Metal mass detectors / Barrier sensors
> Activation and presence detector: EVOLOOP
> Security laser barrier detector: LZR-H100
> Metal mass detectors, MAGNETIX: DETEC, MATRIX, BASIC
from page A79



Detectors and Sensors for industrial doors
> Industrial door sensors (opening)
> Industrial door sensors (opening and safety)
from page A87



Detectors and Sensors for pedestrian doors
> Radar sensors for pedestrian doors: ORASCAN, FLATSCAN
> Sensors for automatic doors: SSR-3, HR100-CT, 3H-IR14C e HR50-UNI
> Infrared safety beam sensor for sliding doors: HP1
from page A95



Door opening buttons non-contact, touch and mechanical
> Non-contact buttons
> Mechanical buttons: PUSH PLATES
from page A101



Universal control units
> Control unit and accessories for shutters: SH230
> Central unit with remote control-controlled electric brake: SH230POWER
> Control unit for motorized rolling shutters with integrated courtesy light: SH230LUX
> Control unit compatible with 230V elettromechanical and hydraulic engines: 051D
> Central control unit for sliding gates: K82
> Three-phase 230Vac control unit with inverter: TWISTER
> Three-phase control unit with display: T400
from page A107



Manual Barrier and containers
> Manual barrier: MOVEO
> Passage restriction columns and accessories: POLY
> Cases for electronic control units: BOXX
> Plastic box for control units: PBOX
from page A119



Devices and mechanical accessories
> Universal aluminum columns: DORICA
> Rack and fixing elements: CRP and CRM
> Protection module: UNI-SAVE
> "Parachute" brakes for sloping sliding gates: CONTROLGIR
> Security Box, Roller shutter locks, Key-switch, Batteries
> Power magnets
> Electric lock and Fall prevention cable
> Power supply
from page A127



CONTROL ACCESS DISTRIBUTION


2
3
5
6



Radio products

5-year warranty for ABEXO 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

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



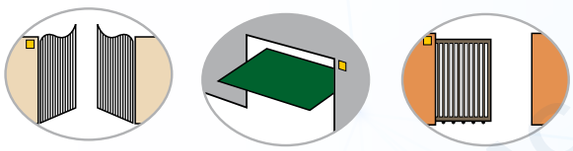
Duplicating the original transmitters has never been so easy!
A shell of new design, linear, light and intuitive contains a jewel of technology.

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 quarzate frequencies ranging from 28.785 MHz to 40.600 MHz).

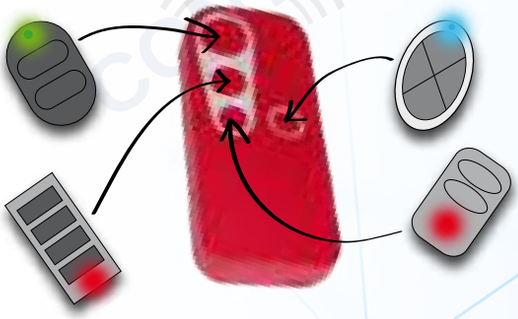
In addition to the frequency, **EGO** is able to recognize the encoding type present in the original transmitter (if fixed code or rolling code) and replicate it precisely and constantly.

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 differents brands or from differents time periods and therefore needs a universal transmitter that unifies all the originals transmitters in a single device.

Radio products/

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

EGO PLUS

NEWS

MADE IN ITALY



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 differents 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

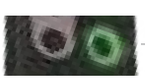
Technical specifications
Power supply: n.1 battery CR2450
Frequency: from 433,92 Mhz to 868,35 Mhz
Operating temperature: -20°C, +55°C

Functionality and led reference



transmission
automatic
manual

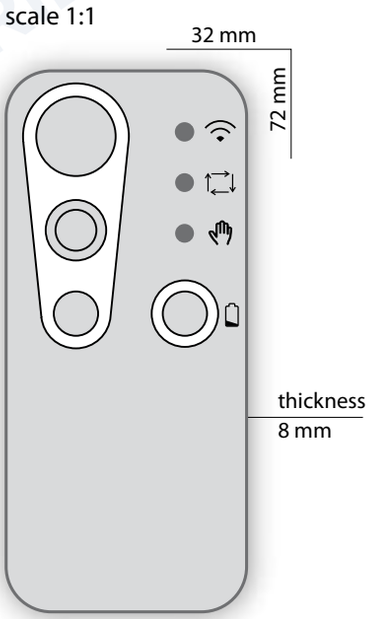
Low battery light signal

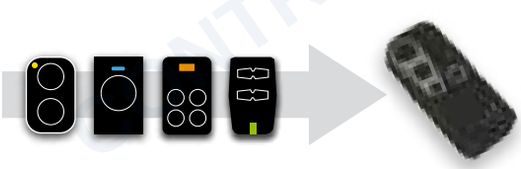


Transmitter's **customisation** is possible on request.
Minimum order: 300pcs



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

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

APE - 550 / 4164



EGO PLUS
4-channel transmitter

€ 39,40

CONTROL ACCESS DISTRIBUTION

Radio products/

Universal 6-channel multi-frequency transmitter (from 433,92 MHz to 868,35MHz)

EGO KUBE

NEWS

MADE IN ITALY

Abexo

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).

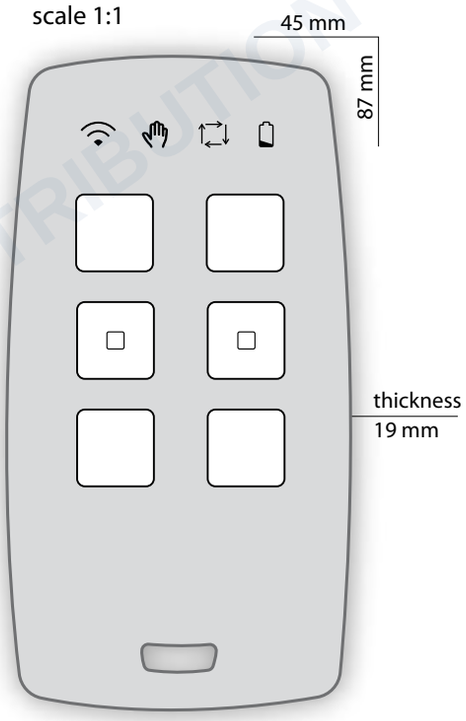


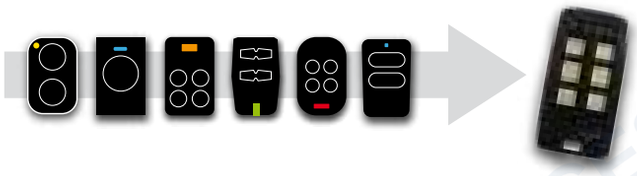
NEW (DOUBLE) ANTENNA

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

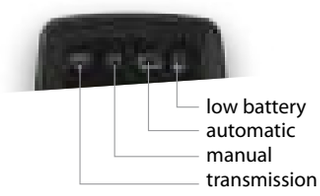
DIMENSIONS
scale 1:1





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





SIMPLE UNDERSTANDING AND IMMEDIATE
Corresponding to the LEDs are designed icons explaining their functions

APE - 550 / 4160



EGO KUBE
6-channel transmitter

€ 68,00

APE - 550 / 4040



Holder
remote control
EGO KUBE/INDUS

€ 25,00

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

CONTROL ACCESS DISTRIBUTION

Radio products/

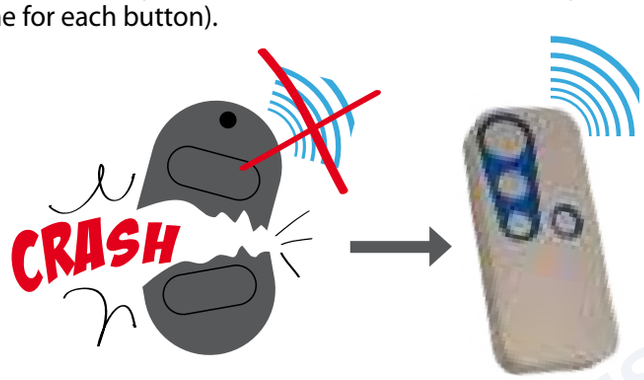
Universal 4-channel multi-frequency transmitter (from 433,92 MHz to 868,35MHz)

EGO64=EGO+EGO32

MADE IN ITALY

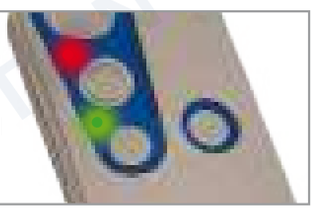
Duplicating the original transmitters has never been so easy!
A shell of new design, linear, light and intuitive contains a jewel of technology.
The **EGO64 transmitter** is suitable to unify or replace all outproduction radio commands plus the ability to replace almost all the models currently trading.
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 quarzate 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).





DOUBLE LED

The double colour led makes it easy to program.





"DOUBLE CLICK" ACTIVATION
To avoid unwanted automation opening.



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.

The table in the instructions

brand A	N2
brand B	N5
brand C	N6

See example:

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.



> Scan the QR code / click on the link
Visit our website
EGO64
https://is.gd/luTHBs

APE - 550 / 1144



EGO64 transmitter

€ 40,70

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

€ 34,60

CONTROL ACCESS DISTRIBUTION

Radio products/

4-channel transmitter with 433,92MHz frequency (keyless emulator of fixed and rolling codes – HCS standard)

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

APE - 550 / 1150



EGO433 transmitter

€ 32,40

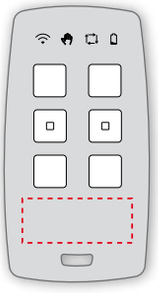
CONTROL ACCESS DISTRIBUTION

CUSTOMIZATION OF EGO TRANSMITTERS

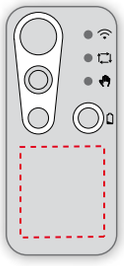


It's possible, on request, to customize the front part of the EGO transmitter with logos or writings.
Minimum quantity 300 pcs.





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/

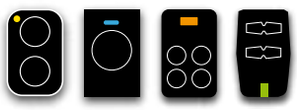
Universal 4-channel multi-frequency keypad (from 433,92 MHz to 868,35MHz)

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.

UNIVERSAL

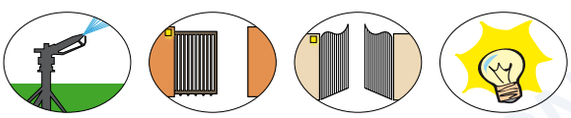
#TRANSMITTER COMPATIBILITY
"ALL" the fixed and rolling-codes in your keypad up to 4 different remote controls



code acquisition and generation

#OPEN 4 DIFFERENT AUTOMATIONS
different brand, frequency/type

channel 1 channel 2 channel 3 channel 4





EGO64



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





#DUAL POWER SUPPLY
battery-powered or wiring

*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 lenght: 1- 8 digits
Power supply: 12-24 VAC/DC; max. 100 mA or CR2 lithium battery included (3V)
Tamper: yes
Degree of protection: IP65
Operating temperature: -20°C to +50°C, without condensation
Dimensions: 92x51x27 mm

APE - 550 / 1177



EGO-KODE radio keypad

€ 150,50

APE - 550 / 1180



KODE SET
EGO-KODE + COPY-433

€ 206,10

Radio products/
Radio Antennas

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.



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
€ 37,90



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
€ 37,90



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
€ 144,80



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
€ 190,80

APE - 515 / 1000



BASIC 433 - antenna with 3mt. coaxial cable
€ 23,50

APE - 515/1868



BASIC 868 - antenna with 3mt. coaxial cable
€ 32,40

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

Radio products/
Universal self-learning receiver

COPY-MULTI

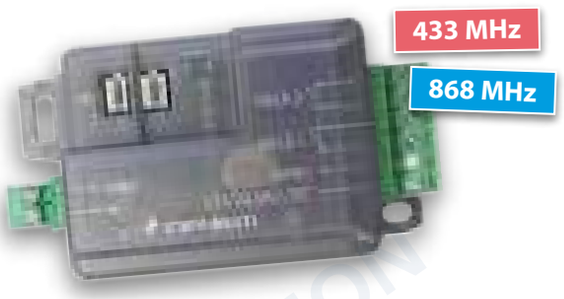
NEW

MADE IN ITALY

The universal receiver **COPY-MULTI** allow extreme versatility in both new and existing installations.
Extreme flexibility: they allow storing remote controls from different distances, with fixed and rolling codes, inside a single receiver. Therefore, the universal receivers allow, in most cases, to unify installations or replace 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):

- > MAXIMUM VERSATILITY FOR NEW AND EXISTING INSTALLATIONS
- > ABLE TO STORE MANY ROLLING-CODE TRANSMITTERS AND EVERY FIXED-CODE TRANSMITTER
- > SIMPLIFIED MAINTENANCE: ALLOWS THE SUBSTITUTION OF NON-FUNCTIONING RECEIVERS WITHOUT REPLACING EXISTING RADIO CONTROLS
- > STORE RADIO CONTROLS FROM DIFFERENT BRANDS IN A SINGLE RECEIVER



TECHNICAL SPECIFICATIONS

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
from 433,92 to 868,35 MHz

Max storable codes
Fixed and Rolling (200)

Dimensions
77x42x18 mm

Operating temperature
-20°C, +60°C

> Scan the QR code and click on the link. Visit our website > COPY-MULTI

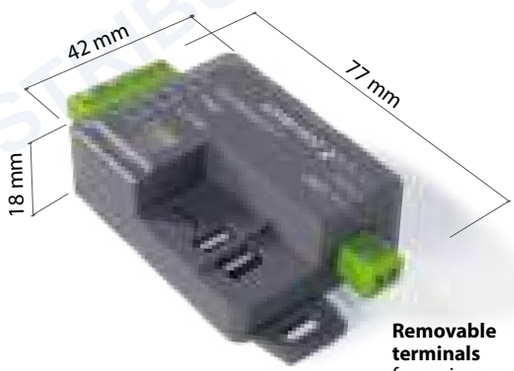
OPERATING LOGICS

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

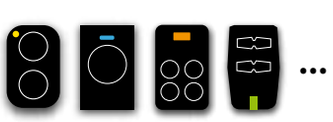
Impulsive: the relay remains active until the button of the transmitter is pressed.

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

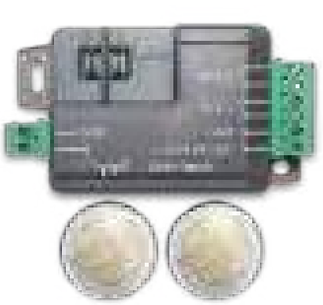
Timer: when the button of the transmitter is pressed, the relay is energized and de-energized after a selectable time (up to a maximum of 120 minutes).



Removable terminals
for easier use



MAXIMUM COMPATIBILITY WITH RADIO CONTROLS ON THE MARKET



APE - 152 / 4035

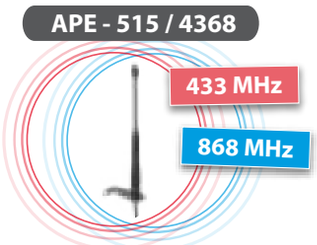
NEW



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

€ 85,50

APE - 515 / 4368



DUAL
dual frequency antenna

€ 37,90

APE - 152 / 5050



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

€ 9,00

check the full **ANTENNAS** range on page A15



Radio products/
Universal self-learning receiver

COPY-433

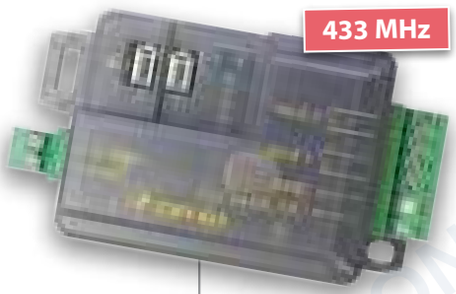
NEW

The **COPY-433** is a universal receiver with a 433 MHz frequency for gate automation. It is equipped with 2 NO channels and 2 relay contacts. It can memorise remote controls of different origins up to 200 codes with 12-24 bit HCS protocol without keys and fixed codes, thus allowing, in most cases, simplifying installations or quickly replacing non-functioning receivers without replacing existing radio controls.

FREQUENCY 433,92 MHz

> **THE SIMPLE AND LOW-PRICED UNIVERSAL RECEIVER**

> **RECOGNISES HCS-STANDARD AND ALL FIXED CODE TRANSMITTERS**



TECHNICAL SPECIFICATIONS

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

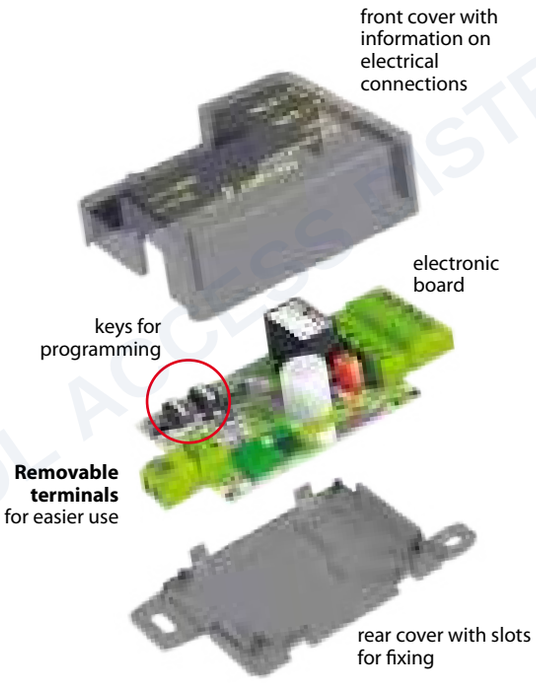
Frequency
433,92 MHz

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

Dimensions
77x42x18 mm

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 / 4033



NEW

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

€ 55,60

APE - 515 / 1000



BASIC 433 - antenna with 3mt. coaxial cable

€ 23,50

APE - 152 / 5050



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

€ 9,00

check the full **ANTENNAS** range on page A15




2
3
5
6

Industrial and Special Radio Products

5 anni di garanzia per i prodotti ABEXO

Industrial radio transmitters and receivers INDUS / A20
Long range radio link MARCONI 2.0 / A22

Abexo® AUTOMATION ACCESSORIES

Radio products/

Industrial transmitters 4 and 6 Channels (433,92MHz)

INDUS

NEW

MADE IN ITALY

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.





MAXIMUM RESISTANCE

Manufactured from highly mechanically resistant materials, the INDUS remote control can withstand crashes and falls



ERGONOMICS DESIGNED FOR INDUSTRIAL USE

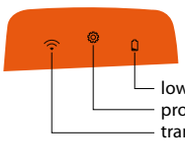
The ergonomics of INDUS and the size of the buttons, guarantees safe and comfortable use, even in the most difficult conditions



Radio products/

Industrial transmitters 4 and 6 Channels (433,92MHz)

SIMPLE AND INTUITIVE
The icons, next to the leds, explain their functions



EXCELLENT RADIO RANGE
Large internal antenna dimension



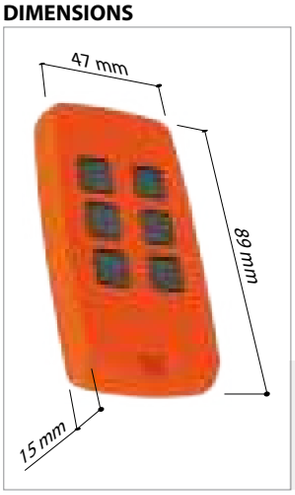




TIRELESS BATTERY, TRIPLE POWER. The CR2450 battery guarantees **three times as many** activations compared to a classic CR2032 battery



DIMENSIONS



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

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

APE - 550 / 4006



INDUS6
6-channel transmitter
€ 68,00

APE - 550 / 4004



INDUS4
4-channel transmitter
€ 65,90

APE - 550 / 4040



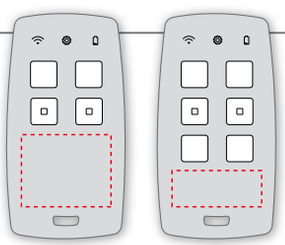
Holder remote control EGO KUBE/INDUS
€ 25,00

CUSTOMIZATION OF INDUS TRANSMITTERS

It's possible, on request, to customize the front part of the INDUS transmitter with logos or writings: minimum quantity 100 pcs.

On request, it is also possible to personalise the transmitters shell colour: minimum quantity 1.000pz

> Ask our customer service



INDUS4 / INDUS6 customization area

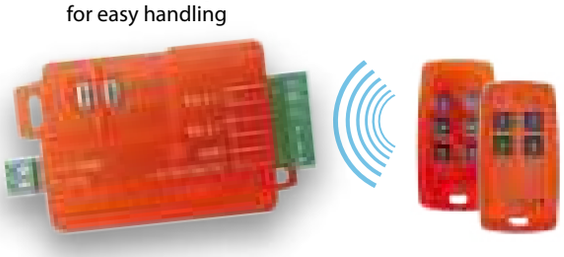
INDUS RX

NEW

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

Removable clamps
for easy handling



APE - 550 / 4033



INDUS RX
Receiver for INDUS
€ 64,90

CONTROL ACCESS DISTRIBUTION

Radio products/
Long range radio link, low power consumption

MARCONI 2.0

NEW

MADE IN ITALY



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

MARCONI Radio Link

LINK-T2
TRANSMITTER
(encoder 2 CH)



up to 5 Km
bidirectional
transmission

LINK-R2
RECEIVER
(decoder 2 CH)



Particularly recommended for:
irrigation systems, gates, alarms, lights





up to 1 Km
bidirectional
transmission



REMOTE CONTROL
T6

Radio products/

Long range radio link, low power consumption

The half-duplex radio link **MARCONI** is used for the remote control of gates, lights, alarms, irrigation systems, etc. It guarantees very long communications distance, high sensitivity, reduced energy consumption and high immunity to interference. It works thanks to the combination of LINK-T2 and LINK-R2.
LINK-T2 is a transmitter with encrypted communication capable of driving the LINK R2 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.

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

BI-DIRECTIONAL

This bi-directional communication makes it possible for the transmitter to know the status of the activated output. The transmitter LINK-T2 (fixed, to be powered) allows up to 5 Km of bi-directional transmission whilst T6 (portable) up to 1 Km.

TECHNICAL DATA

Voltage: 10÷33 Vdc / 9÷24 Vac
Average consumption at rest with all the contacts open:
decoder = 9,5 mA
Maximum consumption (Tx RF) with all the contacts open:
encoder = 22÷30 mA / decoder = 55 mA
Max relay contacts power: 5A@24VDC / 0,25A@240VAC
Frequency: 868,525 MHz
RF power: decoder = 19÷22 dBm / encoder = 19÷22 dBm
Modulation: LORA™
Operating temperature: -20°C, +70°c
Dimensions: 77 mm x 42 mm x 18 mm
Receiver's memory: up to 100 encoders (transmitters)
Configuration of the outputs: Impulsive, bi-stable, timer

APE - 519 / 0325



LINK-T2
2-Channels transmitter with EXTERNAL ANTENNA

€ 136,00

APE - 519 / 0320



LINK-R2
2-Channels receiver with ANTENNA

€ 170,00

APE - 519 / 0322



T6
6-Channels remote control for LINK-R2

€ 88,00

Products compliant with CE limits, certificates

CE



CONTROLACCESSDISTRIBUTION

Standalone keypads

Vandal-Resistant Standalone Keypad / *A26*
Proximity reader keypads / *A28*

CONTROL ACCESS DISTRIBUTION

Abexo® AUTOMATION ACCESSORIES

Standalone keypads/
Vandal-resistant outdoor keypads

EX6M-62A

The **EX6M-62A** and **EX6M-102A** keypads are stand-alone access control devices, recognized for their robustness and reliability. Designed to withstand adverse weather conditions, the EX6 series keypads are housed in a stainless steel enclosure, and their metallic keys are backlit with an elegant blue light. The choice between the two models mainly depends on the desired installation type: wall-mounted for the 62A model and flush-mounted for the 102A model, thus adapting to different architectural requirements.
To further improve device security, the RS-485 serial output can also be used to add up to 8 remote relays (RU1, RU2, or RB0408).



Vandal-resistant
Outdoor
Stand-Alone
RS-485 Connection

degree of IP65 protection

TECHNICAL SPECIFICATIONS
- 1000 user codes
- Power supply: 12/24 V DC/AC
- Output: 2 relays (R1: 10A/24 VDC/120 VAC; R2: 2A/24 VDC/120 VAC); up to 10 relays when used with RB0408 board
- Power consumption: 10 mA in standby and 60 mA in operation
- Indoor and outdoor installation
- Tamper protection against tampering
- Backlit stainless steel or polycarbonate (PVC) buttons
- Programmable buzzer
- 3 colored LEDs: 1 for operation and 2 configurable
- RS-485 connection
- Protection rating: IP65
- Dimensions: 113 × 91 × 42 mm

APE-568/EX6M-62A
Stainless inox keypad for surface mounting with metal keys
€ 225,00

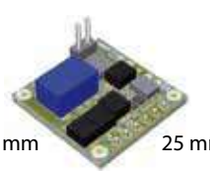
Optional decoders (for RS-485 BUS connection)

RU1

Decoding for 1 door with 1 relay
- RS-485 connection
- 1 relay output 2A
- 9/14Vdc power supply
- Acoustic signal
- Compatible with keypads MTPadPBK-EH-SA, EX6PM-103A, EX6M-62A, EX6M-102A



APE-568/RU1
Decoding for 1 door with 1 relay
€ 53,00



RU2

Remote relay board for 2 doors
- RS-485 connection
- 2 relays output 2A
- 9/14 Vdc power supply
- Acoustic signal
- Compatible with stand-alone keypads MTPadPBK-EH-SA, EX6PM-103A, EX6M-62A, EX6M-102A

APE-568/RU2
Decoding for 2 doors with 2 relays
€ 95,00



DIN RAIL BOX (2 modules)

Standalone keypads/
Vandal-resistant outdoor keypads

EX6M-102A



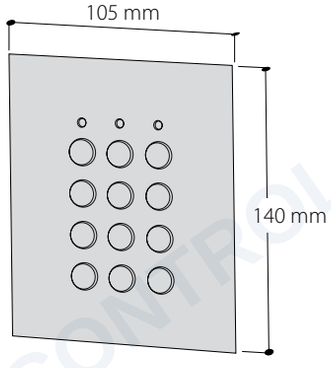
degree of IP65 protection

- *Vandal-resistant*
- *Outdoor*
- *Stand-Alone*
- *RS-485 Connection*

TECHNICAL SPECIFICATIONS

- 1000 user codes
- 12/24 V DC/AC power supply
- Output: 2 relays (R1: 10A/24 VDC/ 120 VAC; R2: 2A/24 VDC/ 120 VAC); 10 relays when used with RB0408 card
- Power consumption: 10 mA in standby and 60 mA in operation
- Indoor and outdoor installation
- Tamper protection against tampering
- Backlit stainless steel or polycarbonate (PVC) buttons
- Programmable buzzer
- 3 coloured LEDs: 1 for operation and 2 configurable
- RS-485 connection
- Protection rating: IP65
- Dimensions 140x105x39 mm

APE-568/EX6M-102A
Flush-mounted keypad with stainless steel front panel and metallic buttons
€ 225,00



CONTROL ACCESS DISTRIBUTION

Installation example



Standalone keypads/
Keypads with proximity reader

MTPadPBK-EH-SA

NEW



The **MTPADPBK-EH-SA** keypad includes a 125Khz proximity reader, **allowing it to read EM and HID standard TAGS and CARDS**.
In the new version, the number of storable codes has increased from 99 to 1000. All codes can be modified in their respective 1000 memory allocations.
The device is equipped with an output relay.
To further increase device security, the RS-485 serial output can also be used to add 1 RU1, 2 RU2, or up to 8 relays (RB0408) within the area to be protected.

- ***Vandal-resistant***
- ***Outdoor***
- ***Standalone***
- ***Proximity EM + HID 125 kHz***
- ***RS-485 connection***

TECHNICAL SPECIFICATIONS

- 1000 user codes
- Protection rating: IP65
- **Proximity reader EM 4002/4100 and HID (125 kHz)**
- Power supply: 12/24 VAC, VDC
- 1 relay output – 2A/24 VDC/120 VAC; up to 9 relay outputs when used with RB0408 board
- Power consumption: 30 mA in standby and 100 mA in operation
- Material: black ABS
- Indoor and outdoor mounting
- Tamper protection
- Backlit metal buttons
- Acoustic buzzer
- 3 coloured LEDs for signalling/programming
- Dimensions 92x51x27 mm

Accessories

APE-568/MC-MINI



Stainless steel cover for outdoor use

€ 72,00

APE-568/MTPADPBK-EH-SA



Stand-alone keypad with proximity reader

€ 164,00

APE-568/MT-SPACER



ABS spacer for keypad surface mounting

€ 7,00

Proximity EM + HID 125 kHz

KEYRING TAGS



code:
APE-568/PBX-1E
description:
keyring tag numbered in ABS



code:
APE-568/PBX-1E-50
package:
n°50 tags



code:
APE-568/PBX-1E-100
package:
n°100 tags



code:
APE-568/PBX-1E-250
package:
n°250 tags

For prices, please contact customer service

CONTROL ACCESS DISTRIBUTION

Standalone keypads/
Keypads with proximity reader

EX6PM-103A



degree of IP65 protection

- ***Vandal-resistant***
- ***Outdoor***
- ***Standalone***
- ***Proximity EM + HID 125 kHz***
- ***RS-485 connection***

TECHNICAL SPECIFICATIONS

- 1000 codes utilisateurs
- Indice de protection IP65
- **Lecteur de proximité EM 4002/4100 et HID (125 kHz)**
- Alimentation 12/24 Vac, Vdc
- Sortie: à 2 relais (R1 : 10A/24 VDC/120 VAC ; R2 : 2A/24 VDC/120 VAC); jusqu'à 10 relais si utilisé avec carte RB0408
- Consommation: 10 mA en veille et 60 mA en activité
- Montage à encastrement pour une installation à l'intérieur ou à l'extérieur
- Protection anti-sabotage
- Touches métalliques en inox rétroéclairées
- Buzzer sonore programmable
- n.3 LED colorées: 1 de fonctionnement et 2 pilotables
- Connexion: RS-485
- Indice de protection IP65
- Dimensions: 140x105x39 mm

APE-568/EX6PM-103A



Flush-mounted keypad with integrated proximity reader

€ 255,00

Optional decoders (for RS-485 BUS connection)

RU1
Decoder for 1 door with 1 relay



RU2
Decoder for 2 doors with 2 relays



see page A26

Proximity EM + HID 125 KHZ

CARDS



code:
APE-568/PBX-2
description:
Numbered proximity card ISO standard (0,75 mm)



code:
APE-568/PBX-2-50
package:
n°50 cards



code:
APE-568/PBX-2-100
package:
n°100 cards



code:
APE-568/PBX-2-250
package:
n°250 cards

For prices, please contact customer service

CONTROL ACCESS DISTRIBUTION



CONTROL ACCESS DISTRIBUTION

Flashing lights, led traffic lights



Wall-mounted led flashing light MICRO-FLASH / A32
LED flasher battery-operated and with motion sensor POWERLED / A33
Universal spare board RETROFIT / A34
Universal high luminous efficacy spare board MEGA RETROFIT / A35
Universal, LED multi-tension flashing light BLINK, MEGA BLINK / A36
Universal, LED multi-tension flashing light VOLT / A37
Universal, LED multi-tension wall-mounted flashing light ALF6 and ALFLUX / A38
Linear LED wall indicator COB LED, NEONFLEX10, WHITE1224 / A40
LED 12/24v traffic light TRAFFIC / A42
LED traffic light for pedestrian access MICRO-TRAFFIC / A44
LED strip traffic light TRAFFIC-COB / A45
LED signalling light MICRO-RGB / A46
Traffic light system management control units TRAFFIC CONTROL, PARK / A47

CONTROL ACCESS DISTRIBUTION

Abexo®
AUTOMATION ACCESSORIES

Flashing lights, led traffic lights/
Wall-mounted led flashing light

MICRO-FLASH

degree of IP65 protection

MADE IN ITALY

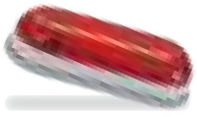
MICRO-FLASH is the innovative led flashing light designed to make the automation of garage doors more beautiful and high tech looking

- 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
€ 33,50

APE - 550 / 1041



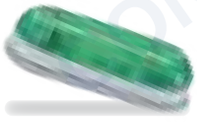
MICRO-FLASH RED

APE - 550 / 1042

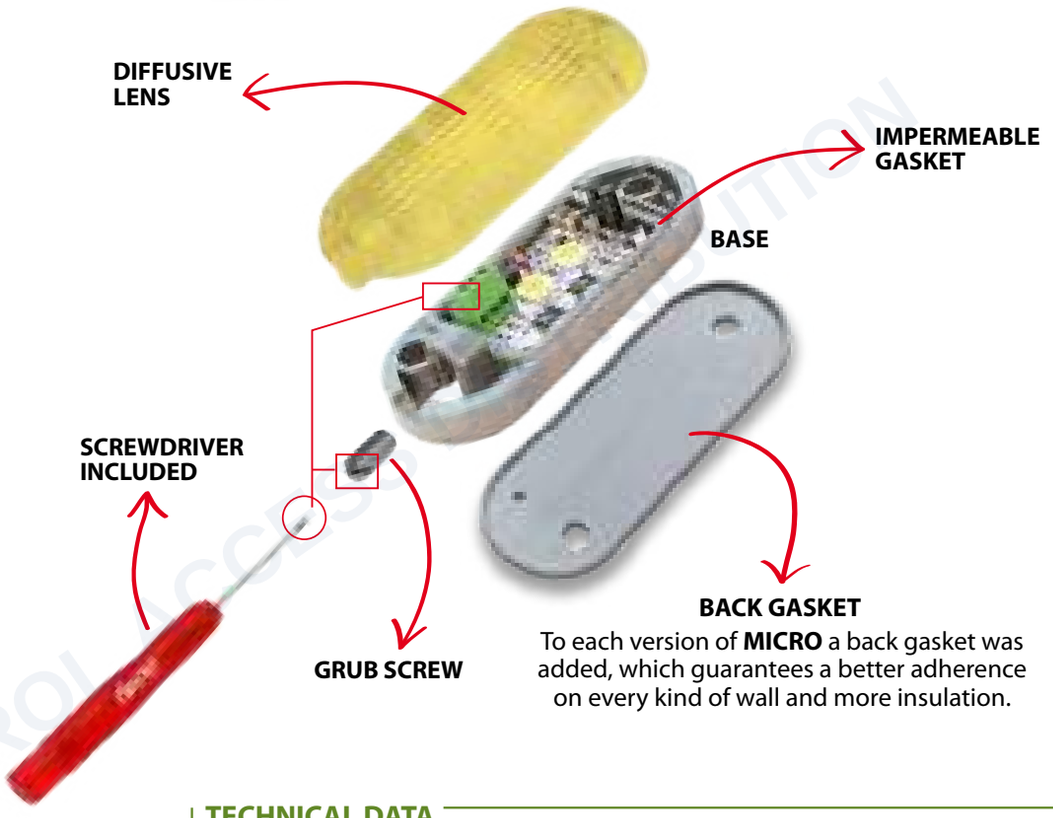


MICRO-FLASH LUX

APE - 550 / 1043



MICRO-FLASH GREEN
€ 33,50



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.

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

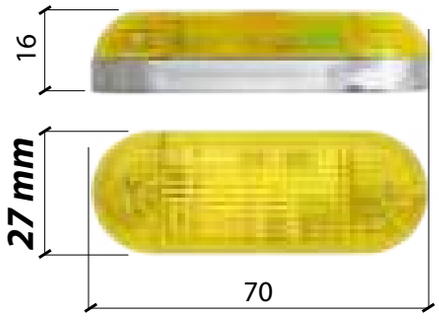
In the early years of spread of automatic gates the cost to have them was very high. The automation was economically for the few and the flashing light, installed in evidence, in addition to its role of signaller, was used as a status symbol: large and very showy. Today the gate automation is affordable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

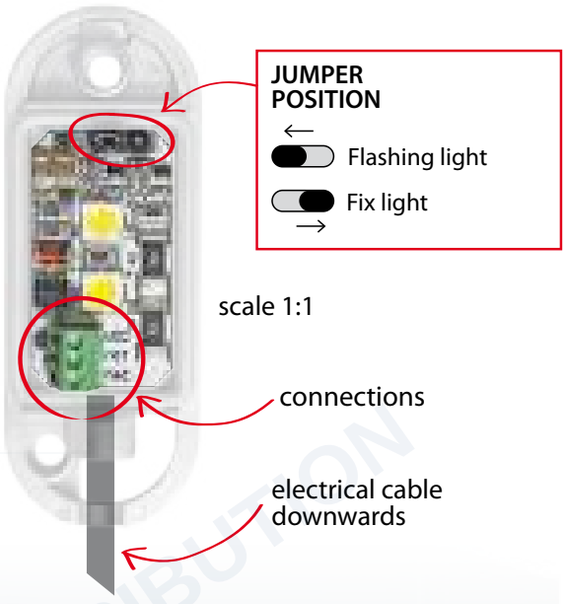
A nice gate need a nice flashing light. Well visible... but ONLY when it's NECESSARY.

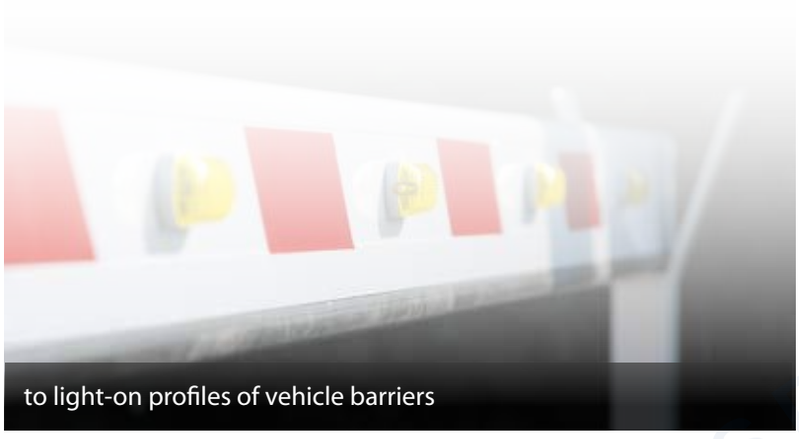
INNOVATIVE DESIGN

Flashing lights, led traffic lights/

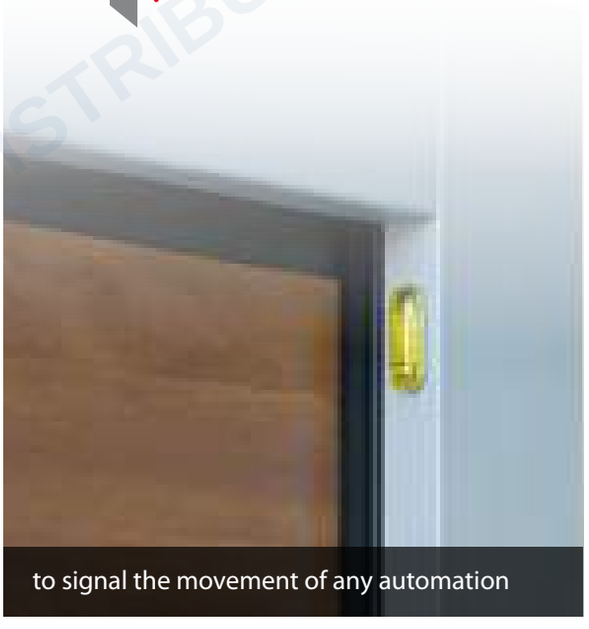
Wall-mounted led flashing light






to light-on profiles of vehicle barriers


to signal in a discrete way a garage door or a shutter


to signal the movement of any automation

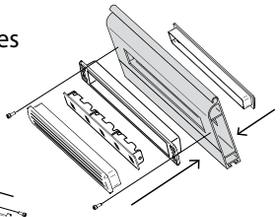
LED flasher battery-operated and with motion sensor

POWERLED

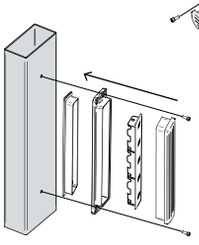
NEW

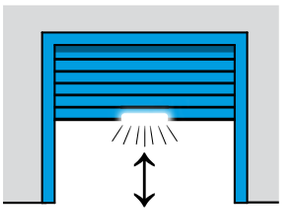


Motion sensor with **adjustable sensitivity**
- **Wireless and without radio connection**
- Illuminates the moving edge
- Power supply: no.3 AA LR 1.5V batteries
- Dimensions: 230x30x24 (prof) mm

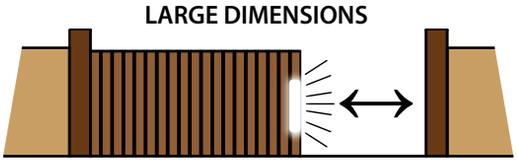


It mounts directly on the lock (shutter, sectional door, gate) recessed or wall-mounted





LARGE DIMENSIONS



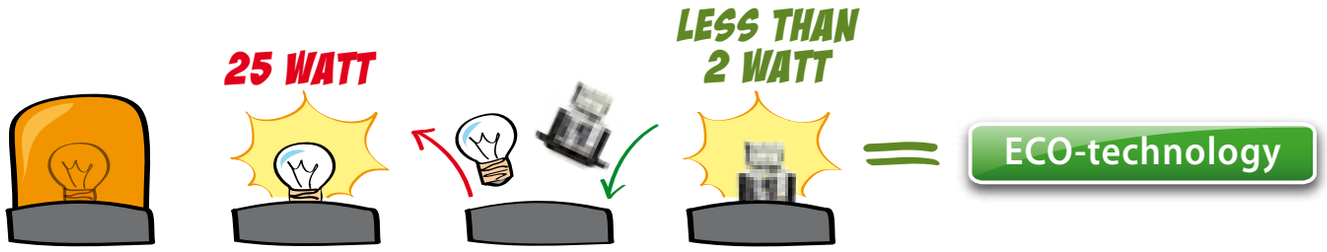
APE - 556 / 2036
POWERLED
€ 95,80

Flashing lights, led traffic lights/
Universal spare board

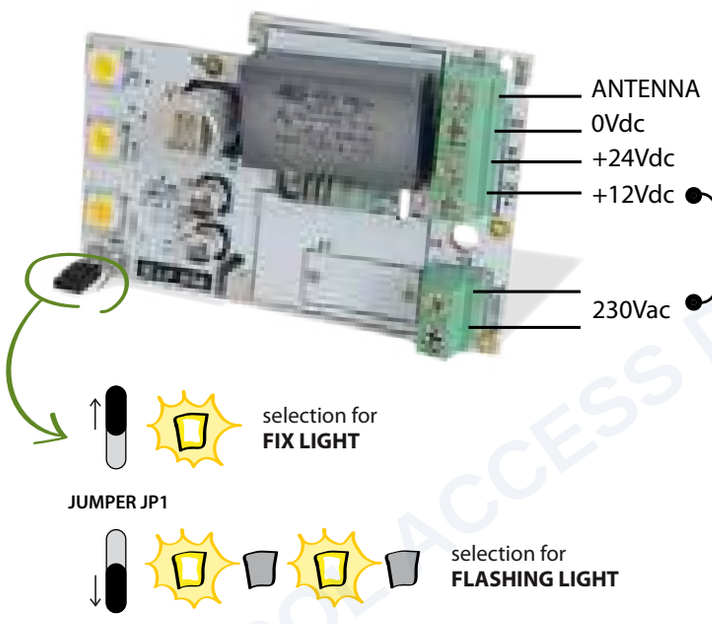
RETROFIT

The Best Seller

MADE IN ITALY



Replace the bulbs with the VOLT led board, SAVE energy and frequent replacements



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.

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



"UNIVERSAL" FIXING BASE

APE - 550 / 1012

VOLT RETROFIT card
LED 12/24/230V

€ 30,90

(*) see instructions for 24 Vac connection

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

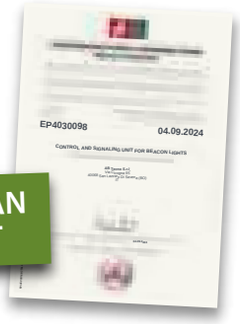
And many others...

Flashing lights, led traffic lights/
Universal high luminous efficacy spare board

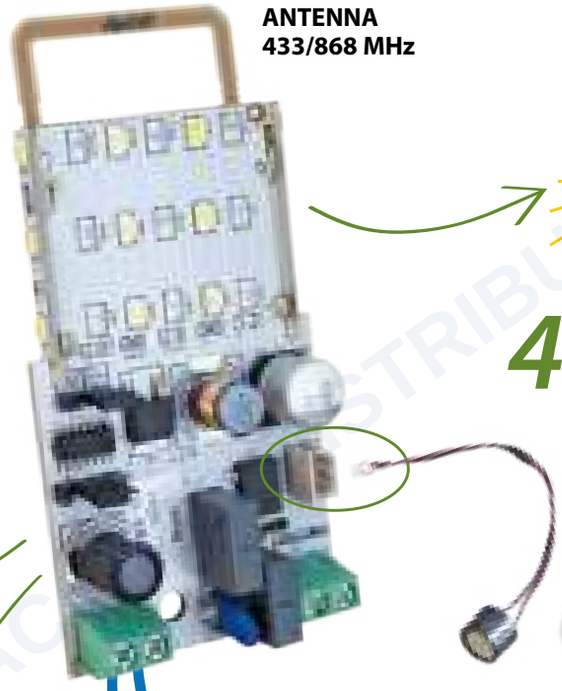
MEGARETROFIT

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.

EUROPEAN PATENT



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

JUMPER JP1
Choose between
3 different modes



FIXED LIGHT
mode

FLASHING LIGHT
mode with AC > 58 Vac
power supply

FLASHING LIGHT
mode

BUZZER

degree of IP67 protection

2 terminals (wires)
12V ÷ 230V

JUMPER JP2
Choose between 2 brightness levels



	NORMAL selection			**HIGH** selection		
Supply voltage	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 / 1004



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

WITH universal fixing base

MEGA RETROFIT SLIM

€ 33,00

APE - 550 / 1005



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

WITH universal fixing base

MEGA RETROFIT

€ 40,90

APE - 550 / 1006



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

€ 20,10

Flashing lights, led traffic lights/
Universal led flashing light, multi-voltage

BLINK

MADE IN ITALY

degree of IP54 protection

MULTI-TENSIONE 12-24 230V AC/DC



RETROFIT board

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

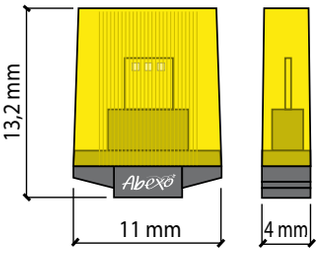
APE - 550 / 1410
BLINK
with yellow lens and terminal antenna
€ 42,30

APE - 550 / 1420
BLINKW
with white lens and terminal antenna
€ 44,60

CAN BE CUSTOMIZED

WALL MOUNTING BRACKET (included in the package)



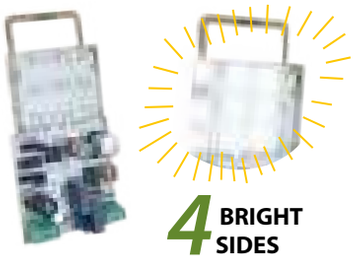


MEGABLINK

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 light modes

STEADY LIGHT

JUMPER JP1

FLASHING LIGHT

Choose between 2 brightness levels

NORMAL selection

HIGH selection

Operating temperature: -20°C, +60°C

Supply voltage	**NORMAL** selection			**HIGH** selection		
	MAX absorp. (mA)	Consump. (w)	Bright. (lm)	MAX absorp. (mA)	Consump. (w)	Bright. (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

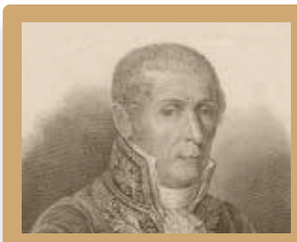
APE - 550 / 1430
MEGA BLINK
with yellow lens without BUZZER
€ 53,60

APE - 550 / 1440
MEGA BLINK BUZZ
with yellow lens and BUZZER
€ 73,50

CONTROL ACCESS DISTRIBUTION

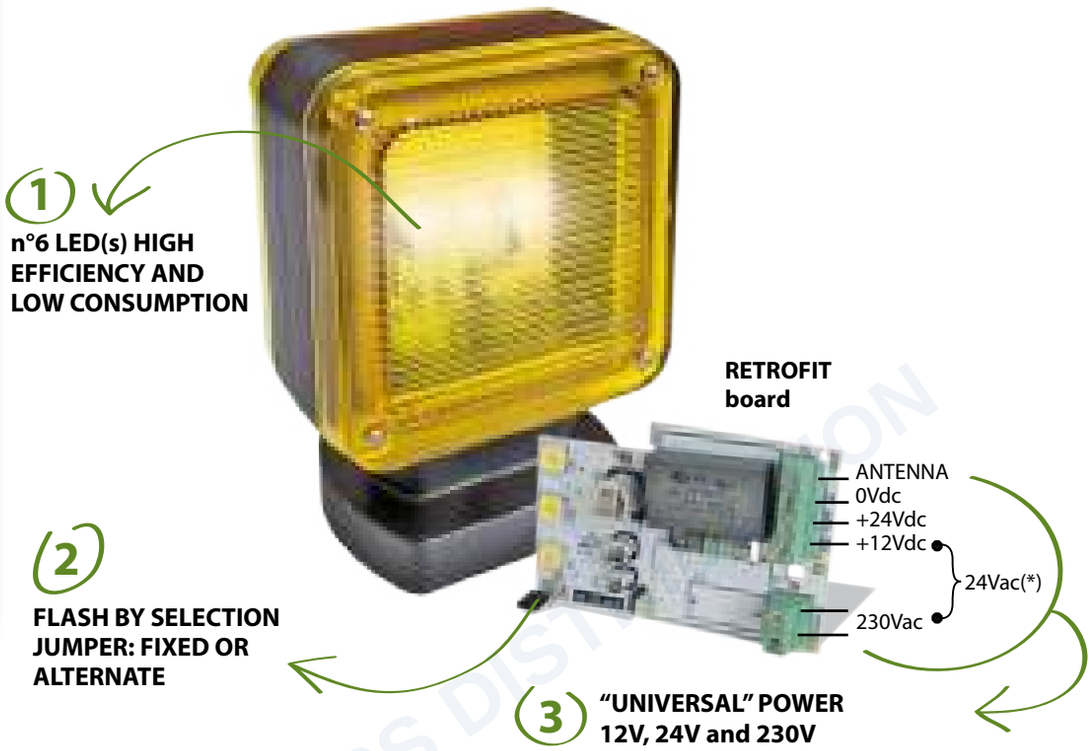
Flashing lights, led traffic lights/
Universal led flashing light, multi-voltage

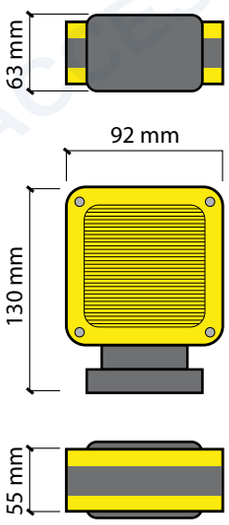
VOLT



Il volt è l'unità di misura del potenziale elettrico e della differenza di potenziale. Ha questo nome in onore di **Alessandro Volta**, che nel 1800 inventò la pila voltaica, la prima batteria elettrochimica. Nel 1880, l'International Electrical Congress (Congresso Elettrico Internazionale), ora International Electrotechnical Commission (IEC), approvò il volt (come unità di misura) per la forza elettromotrice.
Il simbolo del volt è "v".

WIDE RANGE OF APPLICATIONS





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 IP65 protection

APE - 550 / 1010
12/24/230V
VOLT flashing light with antenna terminal board 433/868MHz
color: yellow/black
€ 42,20

APE - 550 / 1015

90° wall mounting bracket
€ 15,50

APE - 550 / 1014

90° rotation bracket
€ 9,30

ECO-technology

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

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

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

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

(*) To connect 24Vac see instructions

CONTROL ACCESS DISTRIBUTION

Flashing lights, led traffic lights/

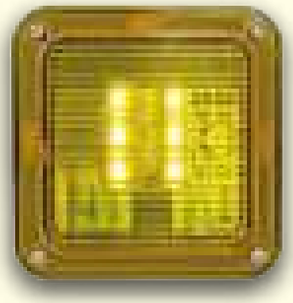
Wall-mounted universal led flashing light, multi-voltage

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





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

APE - 550 / 1036
ALF6
YELLOW
multi-voltage
flashing light
€ 39,10

NEW

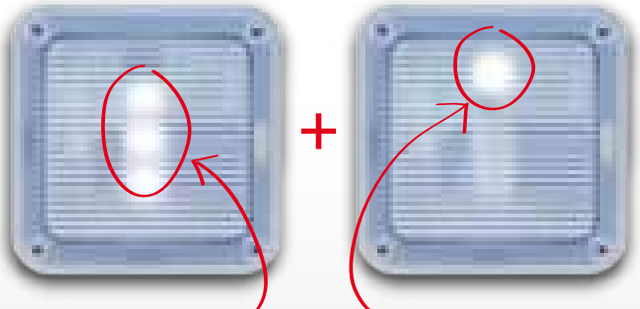
APE - 550 / 1034
ALF6BT
Flasher
YELLOW lens at
LOW VOLTAGE (12Vdc)
€ 33,00

ALF6W
white flashing light



APE - 550 / 1036.W
ALF6W
WHITE
multi-voltage
flashing light
€ 39,10

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
€ 49,00

CONTROL ACCESS DISTRIBUTION

Flashing lights, led traffic lights/

Wall-mounted universal LED flashing lamp, multiple-voltage



degree of IP65 protection

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	-	-	-	-

Flashing lights, led traffic lights/
Linear LED wall indicator

COBLED

NEW

degree of IP55 protection

DESIGNED IN ITALY

The 24V COB LED linear signal lights with **fixed yellow light** offer a uniform and powerful lighting solution. Suitable for signalling obstacles or large doors and gates opening, where a traditional flashing light would be too small or insufficiently bright.



colour light
YELLOW



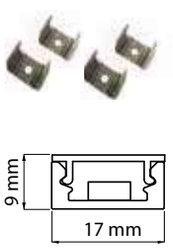


TECHNICAL DATA

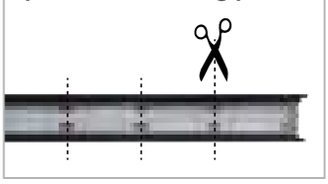
Lamp type: COB LED *
Light colour: yellow
Power supply: 24Vdc
Power: 10 W/m.
Degree of protection: IP55
Wiring: 2-wire cable side output
Profile: dark grey aluminium
Fixing: with 4 springs included

COBLED 1000
Dimensions: 17x9x1000 mm

COBLED 2000
Dimensions: 17x9x2000 mm



COBLED can be shortened according to predefined cutting points





LED light intensity dimmable

APE - 244 / 0310



COBLED 1000
yellow light cob led indicator
length 1000 mm

€ 54,00

APE - 244 / 0320



COBLED 2000
yellow light cob led indicator
length 2000 mm

€ 88,00

POWER SUPPLIES 30W/100W
see page A41



*** COB LED advantages:**

Uniform light: One of the main advantages is the production of a continuous, homogenous light without the individual light spots visible in conventional LED strip. This is particularly useful in applications where light is reflected or where uniform illumination of a surface is required.

High luminous intensity: Due to chip density, COB LEDs can produce a high quantity of light from a small surface area. The absence of individual lenses or casings for each LED chip improves light output.

Energy efficiency: They generally provide a good lumen/watt ratio, which means more light with less energy consumption.

Compact design: The integration of several chips in a single module allows for smaller and more compact luminaires.

Good heat dissipation: The design with a good thermal substrate helps manage the heat generated, improving adaptability and durability.

Wide emission angle: COB LEDs can often offer a wider emission angle, ideal for illuminating larger areas.

Less light loss: The absence of individual lenses or casings for each chip can reduce light loss.

Flashing lights, led traffic lights/
LED illuminators for gate area

DESIGNED IN ITALY

NEONFLEX10

NEW

Silicone LED light diffuser with white light and aluminium profile

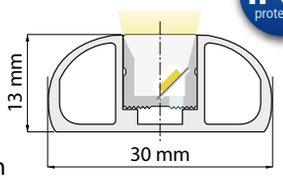
NEONFLEX10 is a **white LED fixed light** illuminator designed to signal obstacles or the opening doors and gates, increasing the safety of the area. The LED includes an aluminium profile for fixing.



Anti-UV and Anti-Dust treatment
Resistant to salt water and solvents

TECHNICAL DATA

Power supply: 24 Vdc
Power: 10 W/m
Brightness: 486 lm
Light temperature: 3000 K
Degree of protection: IP67
Dimensions: 30 x 13 x 1000 mm
30 x 13 x 1500 mm
30 x 13 x 2000 mm
Profile: Aluminium
Wiring: Cable length 100 cm
Operating temperature: -25°C, +60°C





degree of IP67 protection

NEONFLEX can be shortened according to predefined cutting points



LED light intensity dimmable

APE - 244 / 5030



PS 30/24 - power supply 220/24Vdc 30W

€ 48,00

degree of IP67 protection

APE - 244 / 5051



PS 100/24 - power supply 220/24Vdc 100W

€ 82,00

APE - 244 / 8010



NEONFLEX10-100 white led strip with aluminium profile length 1000 mm

€ 75,00

APE - 244 / 8015



NEONFLEX10-150 white led strip with aluminium profile length 1500 mm

€ 108,00

APE - 244 / 8020



NEONFLEX10-200 white led strip with aluminium profile length 2000 mm

€ 139,00

FLAT WHITE 12/24V

9 LED white light indicator with high brightness

MADE IN ITALY

NEW

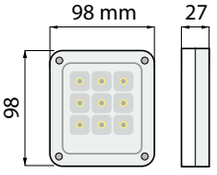


TECHNICAL DATA

Power/Consumption/Lumens:

Power supply	P max	Brightness
12 Vac ÷ 27 Vac	3,5 W	54 lm
12 Vdc ÷ 39 Vdc	2,1 W	
230 Vac (12 Vdc *)		

* (with TRAFFIC DRIVER cod. APE-550/3012)



Degree of protection: IP65
Operating Temperature: -20°C, +60°C
Stainless steel screws / Metal structure

degree of IP65 protection

The lifespan of our 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).

APE - 550 / 3006



FLAT WHITE 12/24V white led indicator "max light"

€ 52,00

APE - 550 / 3012



TRAFFIC DRIVER convertitore 230/12vdc

€ 20,10

CONTROL ACCESS DISTRIBUTION

Flashing lights, led traffic lights/
Led traffic lights 12/24v

TRAFFIC

MADE IN ITALY

ECO-technology

degree of IP65 protection

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)

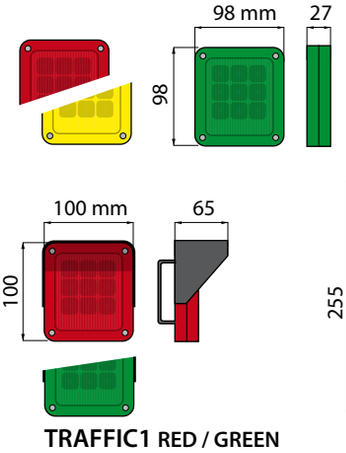
TECHNICAL DATA

Power Supply/Consumption/Brightness
for each individual TRAFFIC RED/YELLOW/GREEN

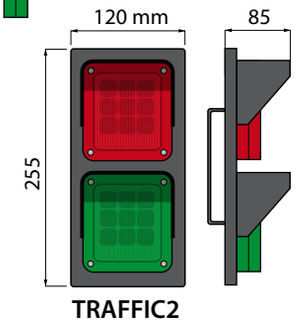
Power supply	P max	Brightness
12 Vac ÷ 27 Vac	3,5 W	54 lm
12 Vdc ÷ 39 Vdc	2,1 W	
230 Vac (12 Vdc *)		

* (with TRAFFIC DRIVER cod. APE-550/3012)

Degree of protection: IP65
Operating Temperature
-20°C, +60°C
Stainless steel screws
Metal structure

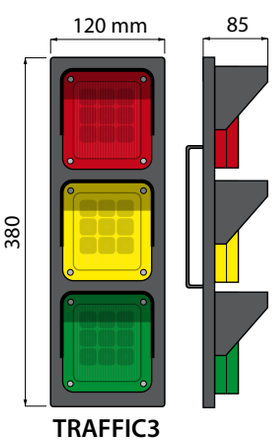


TRAFFIC1 RED / GREEN



TRAFFIC2

TRAFFIC
RED / YELLOW / GREEN



TRAFFIC3

Flashing lights, led traffic lights/
Led traffic lights 12/24v





APE - 550 / 3040



APE - 550 / 3041

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

€ 100,80

APE - 550 / 3018



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

€ 191,70

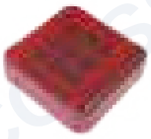
APE - 550 / 3025



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

€ 284,20

APE - 550 / 3003



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

€ 55,70

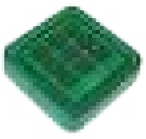
APE - 550 / 3002



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

€ 55,70

APE - 550 / 3004

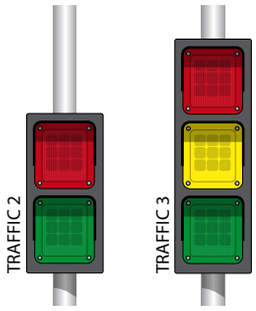


GREEN TRAFFIC 12/24v
traffic lights/led signaller green "max light"

€ 55,70

APE - 150 / 5021

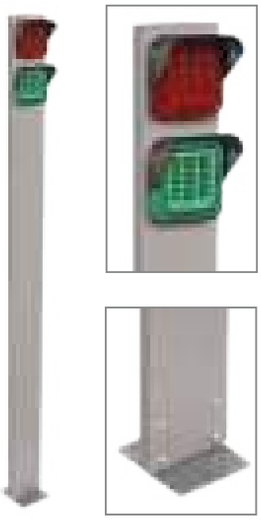




BOXX-STP
Stainless steel bracket for TRAFFIC 2-3 pole mounting

€ 22,70

APE - 550 / 3022



TRAFFIC COLUMN
120x20x1490h mm with TRAFFIC

€ 323,10

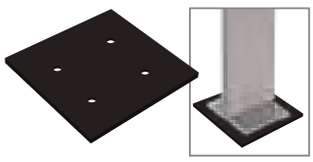
APE - 550 / 3009



TRAFFIC COVER
metal roofing

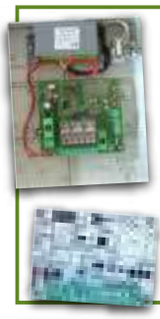
€ 15,10

APE - 550 / 3023



BASE
245x295 mm for column

€ 53,60



> see page A41
Control units for management systems traffic lights
TRAFFIC CONTROL and PARK

SPECIAL AND OEM VERSIONS ON REQUEST

APE - 550 / 3012



TRAFFIC DRIVER
converter 230/12Vdc

€ 20,10

CONTROL ACCESS DISTRIBUTION

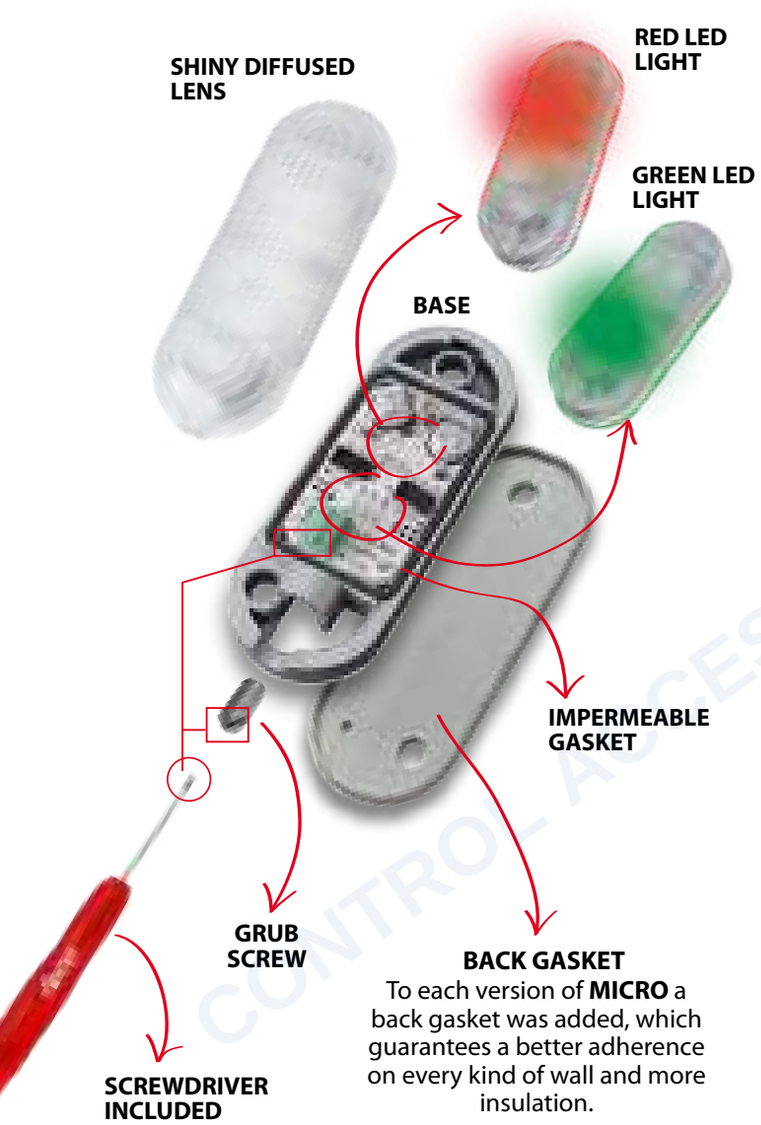
Flashing lights, led traffic lights/

Led traffic light for pedestrian access points

MICRO-TRAFFIC

degree of IP65 protection

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).

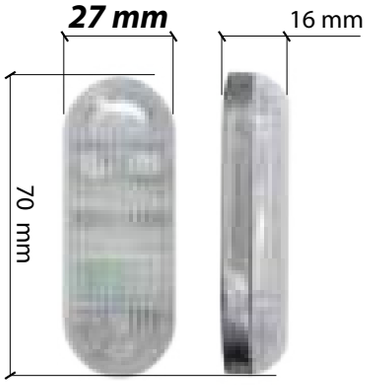


BACK GASKET
To each version of **MICRO** a back gasket was added, which guarantees a better adherence on every kind of wall and more insulation.


discreet and elegant mini traffic light for access control

APE - 550 / 1045
MICRO-TRAFFIC
€ 37,90


micro application as alarm status



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

Flashing lights, led traffic lights/
LED strip traffic light

TRAFFIC COB

NEW

degree of IP55 protection

DESIGNED IN ITALY

Abexo





light colour
GREEN / RED





Linear COB LED traffic light
24V green/red light
This innovative COB LED light is designed to be used as a traffic light, with an intense green or red light. Due to its Chip-on-Board technology, it provides uniform, high-efficiency lighting. Its versatility makes it a visually impressive lighting solution.

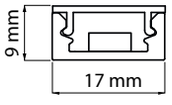
TECHNICAL DATA

Lamp type: COB LED *
Light colour: green/red
Power supply: 24Vdc
Power: 10 W/m.
Degree of protection: IP55
Wiring: 3-wire cable side output
Profile: dark grey aluminium
Fixing: with 4 springs included

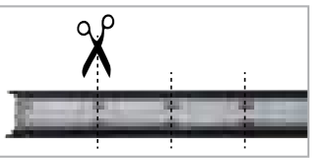
TRAFFIC COB 1000
Dimensions: 17x9x1000 mm

TRAFFIC COB 2000
Dimensions: 17x9x2000 mm





TRAFFIC COB can be shortened according to predefined cutting points



LED light intensity dimmable

APE - 244 / 0410



TRAFFIC COB 1000
cob led light green/red
length 1000 mm

€ 60,00

APE - 244 / 0420



TRAFFIC COB 2000
cob led light green/red
length 2000 mm

€ 100,00

POWER SUPPLIES
30W/100W
see page A41



*** COB LED advantages:**

Uniform light: One of the main advantages is the production of a continuous, homogenous light without the individual light spots visible in conventional LED strip. This is particularly useful in applications where light is reflected or where uniform illumination of a surface is required.

High luminous intensity: Due to chip density, COB LEDs can produce a high quantity of light from a small surface area. The absence of individual lenses or casings for each LED chip improves light output.

Energy efficiency: They generally provide a good lumen/watt ratio, which means more light with less energy consumption.

Compact design: The integration of several chips in a single module allows for smaller and more compact luminaires.

Good heat dissipation: The design with a good thermal substrate helps manage the heat generated, improving adaptability and durability.

Wide emission angle: COB LEDs can often offer a wider emission angle, ideal for illuminating larger areas.

Less light loss: The absence of individual lenses or casings for each chip can reduce light loss.

COPYRIGHT CONTROL ACCESS DISTRIBUTION

Flashing lights, led traffic lights/
Led signalling light

MICRO-RGB

degree of IP65 protection

MADE IN ITALY

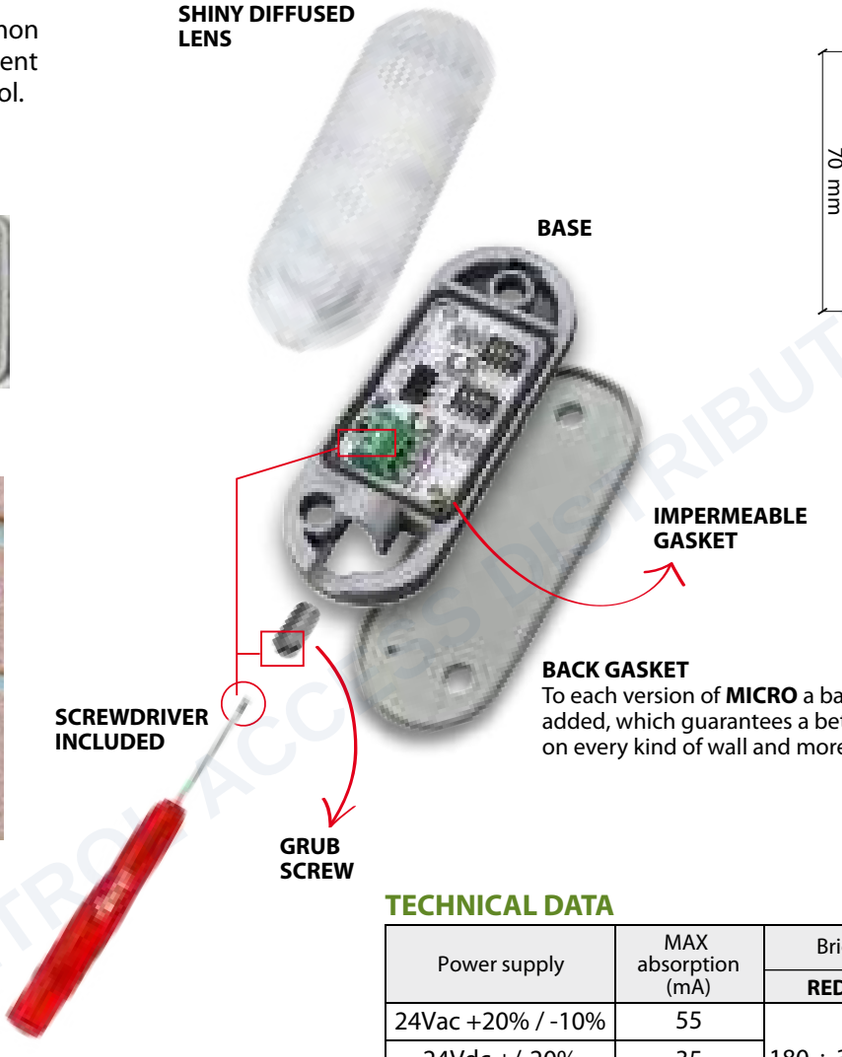
MICRO-RGB is the ideal led signalling light to show the status of an alarm system or a door in an access control system. Thanks to its compact dimensions, it perfectly fits any fixing area, walls or pillars, without affecting the elegance of the facade. The colours of the materials used to manufacture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

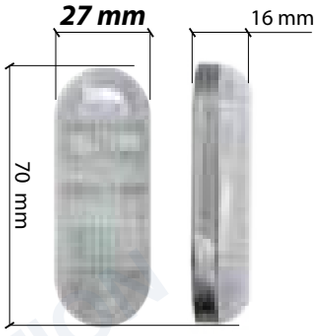
3 pin terminal with common and 2 poles for independent connection of light control. Colours can be selected through the position of DIP-SWITCH.



EXAMPLE OF SELECTION







APE - 550 / 1038
MICRO-RGB
LED signalling light
€ 42,30

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.

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 / IN Green	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
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



CONTROL ACCESS DISTRIBUTION

Flashing lights, led traffic lights/
Traffic light system management control units for driveways

TRAFFIC CONTROL

degree of IP65 protection

MADE IN ITALY

Abexo

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.

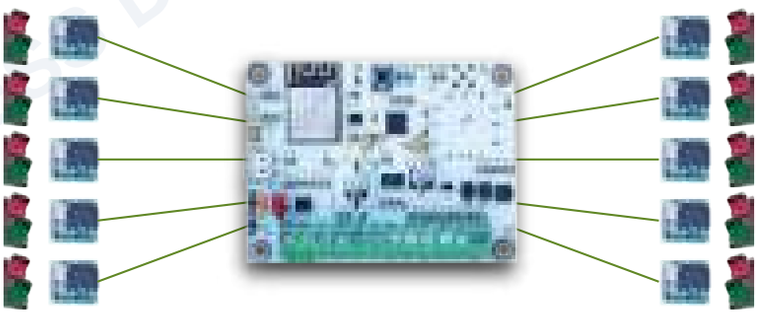
- Power supply: 24 Vac/Vdc
- Accessory power supply: 24 V max 0.5 A
- 3 control inputs: traffic light 1, traffic light 2, emergency
- Operating temperature: -20°C, +60°C
- Transformer included

APE - 511 / 2050
TRAFFIC CONTROL
management center for 2 traffic lights (2-way)
€ 217,30

PARK

degree of IP65 protection

Traffic light control board programmable via web app



Ability to manage up to 10 connected traffic lights on a wired network up to 1 km away



Easy to set up with any device (Wi-Fi)



- Power supply: 230V
- Degree of protection: IP65
- Operating temperature: -20°C, +60°C
- Communication: RS485 and WI-FI
- Logic: time, reservation, mixed and parking

APE - 511 / 2060
PARK MASTER
MASTER card for traffic light control
€ 534,80

APE - 511 / 2070
PARK SLAVE
SLAVE card for traffic light control
€ 479,10

APE - 511 / 2080
KIT PARK
n.1 PARKMASTER + n.2 PARKSLAVE
€ 1.448,20



CONTROL ACCESS DISTRIBUTION

Photocells and safety devices

2-year warranty for ABEXO products

Laser detector for industrial gates and doors FLATSCAN IP66 / A50
Security sensor for industrial doors LZR / A52
Fotocellula laser per cancelli e porte industriali L36 / A54
Safety edges ACTIVE RES, ACTIVE-R3 / A56
CRASHLESS safety edges CAPTIVE / A58
Photocell MICRO-P27S / A60
Reflective photocell REFLEX / A62
Photocells INFRA16, SW50, P41, P37B / A64
Infrared protective barriers LIGI01, LIGI07 / A66
Compact synchronised photocells ARGOS / A72
Photoelectric immaterial barriers AOS124 / A73
Optics for sensor profile WS-SIGNAL 15 and LOW POWER SIGNAL / A74
Spiral cable SPK / A76
Crushing force gauge for gates and motorized doors CERTIFIKO / A77

CONTROL ACCESS DISTRIBUTION

Abexo® AUTOMATION ACCESSORIES

Photocells and safety devices/
Laser detector for industrial gates and doors

FLATSCAN IP66

NEW

CRASHLESS

MADE IN BELGIUM

FLATSCAN IP66 is a compact, single curtain sensor composed of 400 beams, based on LASER technology, **designed for use on automatic industrial doors and swing gates.**
The high accuracy of laser technology ensures precise detection of people and vehicles within a range of 5.5 m x 5.5 m, in indoor and outdoor environments.
The robust metal housing with **IP66 protection** rating makes the sensor suitable for installations in industrial environments and outdoor applications.

LASER Technology

ENERGY SAVING

degree of IP66 protection

Certified EN12453 type D



Applications on:

SWING GATES



SLIDING GATES



INDUSTRIAL DOORS



Versatile sensor orientation
Flexible mounting options on either side make the sensor easy to install in any application.

Installation height adjustable
The sensor can be installed up to 5.5 m to comply with EN 12453 standard.

Reduced unwanted detections
The anti-fog filter and additional protection settings allow on-site adjustment and reduction of environmental interference.

Robust and compact design
The metal housing and IP66 protection rating safeguard the sensor even in harsh environmental conditions.
Its small, compact size makes it easy to install even in limited spaces.

Photocells and safety devices/
Laser detector for industrial gates and doors

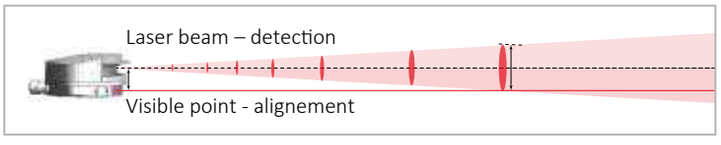


Technology: LASER scanner, time-of-flight measurement
Mounting height: from 2.5 m to 5.5 m
Maximum detection area: Max. 5.5 m × 5.5 m (4 m @ 5% reflectivity)
Detection types: presence
Radar field of view: 90°
Tilt angle: ±3° (with bracket)
Power supply: 12 – 24 V DC ±15%
Output: 1 opto (galvanic isolation – polarity-free)
> Max. switching voltage: 30 V AC / 42 V DC
> Max. switching current: 100 mA
> 1 relay (potential-free contact)
> Max. contact voltage: 30 V AC / 42 V DC
> Max. contact current: 1 A (resistive)
> Max. switching power: 30 W DC / 60 VA AC
Power consumption: approx. 2.3 W, peak current = 1 A
LED: 1 tri-color LED: detection/output status
Optical characteristics (IEC/EN 60825-1):
> Wavelength 905 nm; output power < 0.1 mW; CLASS 1
> Wavelength 635 nm; output power < 1 mW; CLASS 2 – visible spot

Vibrations: < 2 G
Material / Color: Aluminum A380 – black
Dimensions: 124 mm × 90 mm × 50 mm without bracket
Protection rating: IP66 (IEC/EN 60529)
Operating temperature: -30°C to +60°C when powered
Humidity: 0–95% non-condensing
Standards: EN 12453 (type D)



INSTALLATION
- 3 visible LED spots provide precise reference points to help adjust the angle of inclination
- The sensor can be mounted on the right, in the centre or on the left for easy installation
- Parameter adjustment via remote control







APE - 790 / 2030



FLATSCAN IP66
Laser detector for industrial gates and doors, bracket included

€ 985,00

Accessories

APE - 790 / 0103



> see page A96

CTRL – Universal remote control for programming

€ 54,60

Photocells and safety devices/
Security sensor for industrial doors

LZR-i100 / LZR-i110

CRASHLESS

MADE IN BELGIUM

The **LZR-i100** and **LZR-i110** detectors are based on highly accurate time-of-flight technology, ensuring optimal safety at the threshold and in the proximity of the door, with four laser curtains that define corresponding detection areas.

LASER Technology

ENERGY SAVING



Two separate detection areas
Door safety during opening and closing through two distinct detection zones.



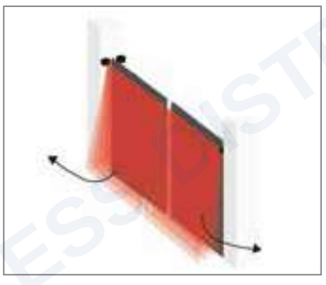
Optimised for industrial environments
IP65, 10 m cable, filters against swing door deformation caused by wind, protection against door vibrations and environmental interference.



Virtual push buttons
Option to set up 2 virtual buttons to open the door



certified
PL «d» / CAT2
EN-ISO13849-1
EN12453





Security device for automatic swing and sliding gates

PERFORMANCE
- Adjustable detection area depth (up to 1 m) depending on installation height
- Certified safety solution for industrial doors: PL "d" / CAT 2 according to EN ISO 13849-1 and type E according to EN 12453
- High level of safety with complete three-dimensional detection in front of the door
- Small object detection *

APPLICATIONS
- Safety during door opening and closing with 2 separate detection zones
- Possibility to create 2 virtual buttons for door opening

DESIGNED FOR INDUSTRIAL CONTEXTS
- Filters door vibrations and environmental interference
- Filters door frame deformations caused by wind
- Protection rating IP65

LZR-i110 - Maximum detection distance: 5 m × 5 m
LZR-i100 - Maximum detection distance: 9.9 m × 9.9 m
Power supply: 10-35V DC on connector
Output: 2 electronic relays (galvanic isolation – polarity-free)
Maximum switching voltage: 35 VDC / 24 VAC
Maximum switchable current: 80 mA (resistive)
Dimensions: 125 mm (W) × 93 mm (D) × 70 mm (H) (mounting bracket +14 mm)
Protection rating: IP65
Operating temperature: -30°C to +60°C under power
Compliance: EMC 2014/30/EU; LVD 2014/35/EU; MD 2006/42/EC; ROHS 2 2011/65/EU; EN 12453 chapter 5.1.1.6, chapter 5.5.1 Safety device E; EN 12978; EN ISO 13849-1 Pl 'd'/ CAT2; EN 60529; IEC 60825-1; EN 60950-1; EN 61000-6-2; EN 61000-6-3; IEC 61496-1; EN 61496-3 ESPE Type2; EN 62061: 2005 SIL 2; DIN 18650-1 Chapter 5.7.4

APE - 790 / I110



LASERSCAN LZR-i110

€ 1.931,00

APE - 790 / I100



LASERSCAN LZR-i100

€ 2.338,00

Accessories > see page A53



CTRL REMOTE CONTROL



LZR-BA MOUNTING BRACKET

* up to a few centimeters depending on the application

Photocells and safety devices/
Laser detector for building security and automatic doors

LZR-S600

CRASHLESS MADE IN BELGIUM Abexo

LZR-S600 is a LASER security detector designed to protect property and buildings from theft, intrusion and vandalism. It is a compact, easy-to-install, plug & play solution with a self-learning function.

LASER Technology ENERGY SAVING



- Ability to detect small objects with a reflectivity factor of 2%
- Does not require illumination of the object to be protected (unlike standard camera systems)
- Effective protection against environmental disturbances (flight time and special software)

avisit our website for more information and complete technical specifications

https://bit.ly/3MLzq9B



Maximum detection distance: from 10×10 to 25×25 (4 planes in height, width, and depth)
Detection mode: motion and presence
Power supply: 10–35 V DC via connector
Output: 2 independent relays configurable as pre-alarm/alarm, day/night, anti-vandalism
Protection rating: IP65
Operating temperature: -30°C to +60°C under power
Compliance: 2006/95/EC: LVD; 2002/95/EC: RoHS; 2004/108/EC: EMC ; EN 60529:2001; IEC 60825 - 1: 2007 Laser Class 1 & 3R ; EN 61000-6-2: 2005 EMC - Industrial level ; EN 61000-6-3: 2006 EMC - Commercial level

APE - 790 / 1560
LASERSCAN LZR-S600
€ 2.854,00

LZR-P110

The **LZR-P110** laser detector ensures the protection of sliding doors, swing doors and revolving doors in accordance with DIN 18650 and EN 16005 standards.

LASER Technology ENERGY SAVING



- Time-of-flight measurement: immune to ground reflectivity
- Free positioning of 2 virtual buttons for opening sliding doors
- Three-dimensional protection at the door threshold and near the closing area with 4 high-resolution laser curtains
- Integrated heating system and snow and rain protection filter (for outdoor use)

visit our website for more information and complete technical specifications

https://bit.ly/3s9AuMy

Maximum detection distance: 5×5 m
Detection mode: presence
Power supply: 10–35 V DC via connector
Output: 2 configurable relays (e.g., slow speed and locking for revolving doors, virtual button and safety mode for sliding doors)
Protection rating: IP65
Operating temperature: -30°C to +60°C under power

Compliance: 2006/95/EC: LVD; 2002/95/EC: RoHS; 2004/108/EC: EMC; 2006/42/EC: MD; EN 12978:2009; EN ISO 13849-1:2008 CAT2, Pl "d"; EN 60529:2001; IEC 60825-1:2007; EN 60950-1:2005; EN 61000-6-2:2005; EN 61000-6-3:2006; IEC 61496-1:2009; EN 61496-3:2008 ESPE Type 2; EN 62061:2005 SIL 2; EN 16005:2012 Chapter 4.6.8; DIN 18650-1:2010 Chapter 5.7.4; BS 7036-1:1996 Chapter 8.1

APE - 790 / 1510
LASERSCAN LZR-P110
€ 1.932,00

LZR-H100 ACCESSORY

APE - 790 / 0103



CTRL REMOTE CONTROL

> see page A96

€ 54,60

APE - 790 / 11BA



LZR-BA MOUNTING BRACKET

€ 86,50

ACCESSORY ONLY FOR LZR-H100

APE - 790 / 1185



SUPPORT BRACKET FOR LZR-H100

€ 545,90

Photocells and safety devices/

Laser technology sensor for industrial gates and doors

L36

NEW

MADE IN EUROPE

L36 is an innovative photocell based on time-of-flight (ToF) laser technology, designed for use on gates as a security device.
Compared to traditional photocells, **it does not require two devices or reflectors**.
L36 uses a laser rangefinder to measure the distance to an obstacle.

LASER Technology

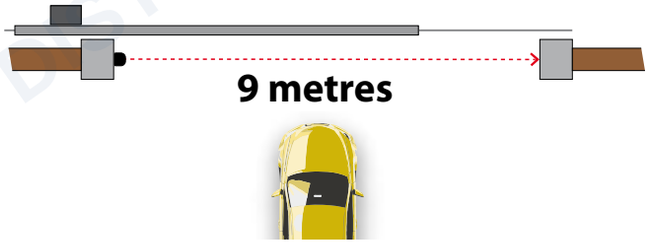


ORIENTABLE PHOTOCELL
The optics can be horizontally oriented by **180°**

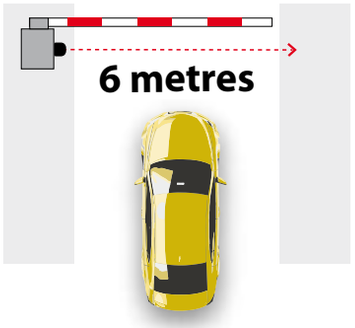


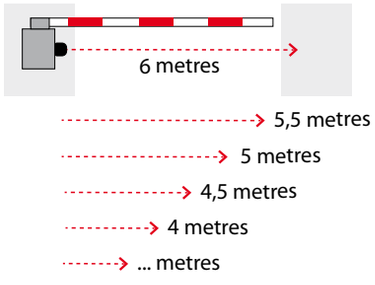
The photocell can be used in 3 different modes:

Mode A
OPERATION AS A PHOTOCELL
This mode requires a fixed physical reference point opposite the laser rangefinder. Maximum detection distance: 9 m.
The photocell analyses two events. Obstacle detection at shorter distance than the stored distance, during the learning phase.



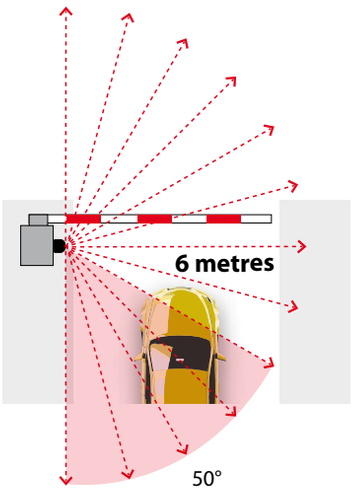
Mode B
OPERATION AS A PROXIMITY SENSOR (APPROACH PERPENDICULAR TO THE LASER BEAM)
Maximum reading distance 6 m, optimised for detecting movements perpendicular to the beam.
The reading distance is programmable and can be adjusted in increments of 0.5 m during programming.

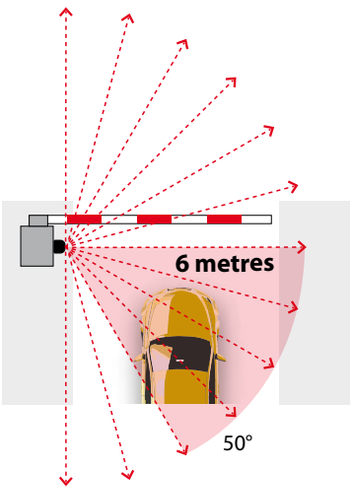




Mode C
OPERATION AS A SENSOR APPROACHING THE PHOTOCELL FROM ANY DIRECTION
Maximum reading distance 6 m, optimised for detecting movements approaching the photocell from any direction.
The reading distance is programmable and can be adjusted in increments of 0.5 m during programming.

- 6 metres
- 5,5 metres
- 5 metres
- 4,5 metres
- 4 metres
- ... metres





CONTROL ACCESS DISTRIBUTION

Photocells and safety devices/
Laser technology sensor for industrial gates and doors



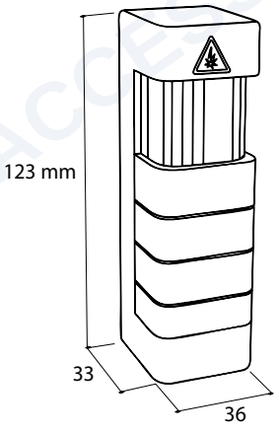




INSTALLATION
Optical and acoustic signals: The device communicates its operating status and measurement results via optical and acoustic signals, facilitating diagnosis and setting.



Power supply: 12-24V AC/DC
Transmission/reception angle: +/- 25°
Head rotation angle: 180°
Maximum range
  Mode A: 9 m
  Modes B and C: 6 m
Maximum output load: 30Vdc, 0.5A
Operating temperature: -10°C to +60°C
Protection class: IP54
Dimensions: 36x123x33 mm
Weight: 69 g



APE - 171 / 3030



L36
Laser sensor for industrial gates and doors

€ 207,00

Accessories

APE - 550 / 5061

DORICA 50
Column h=500 mm with fixing base in technopolymer

see page 128



€ 56,70

Photocells and safety devices/
Wired safety edges

ACTIVE-RES

NEW

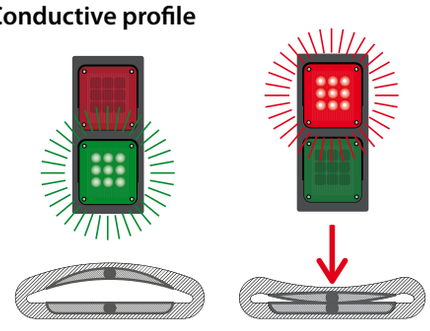
degree of IP65 protection

MADE IN ITALY

Easy to install and can be shortened to size, **ACTIVE-RES** is using conductive technology in a small sensitive edge. The safety device ensures a rapid response to impacts along the entire length of the structure.

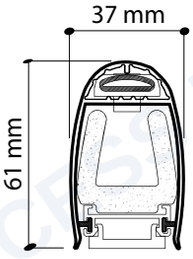


Conductive profile



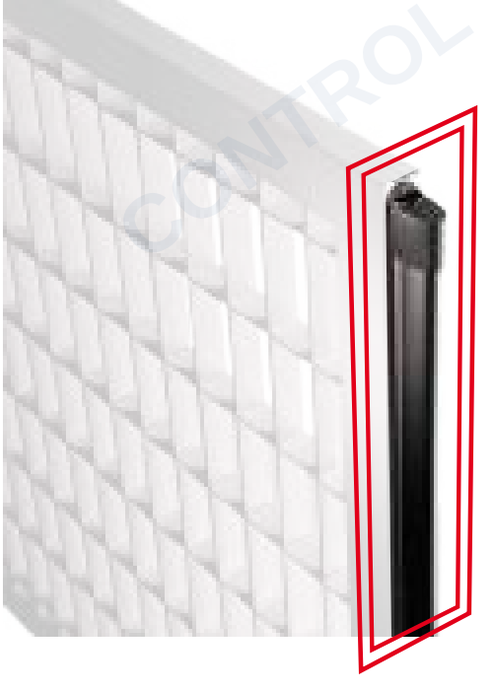
WIRED CONNECTION





TECHNICAL FEATURES
- Operating temperature: -20°C, +55°C
- Degree of protection: IP65

8,2 KΩ



Guaranteed safety over the entire length of the edge including headers

CONTROL BOARD FOR RESISTIVE SENSITIVE EDGES 8,2K

Equipped with two channels, ensures continuous system self-checking, which is blocked in the case of faults.
Available in **protection category 2 PL D (IMQ-certified)**



8,2 KΩ



APE - 563 / 4455
control board category 2
€ 105,44

APE - 563 / 4412	APE - 563 / 4416	APE - 563 / 4420	APE - 563 / 4425
length 1,20 mt	length 1,60 mt	length 2,00 mt	length 2,50 mt
€ 108,81	€ 129,21	€ 148,85	€ 173,79

CONTROL ACCESS DISTRIBUTION

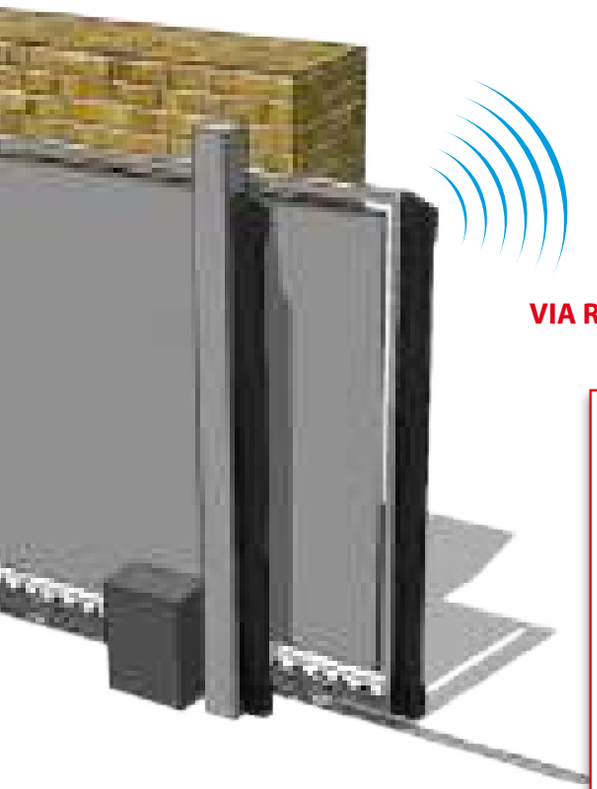
Photocells and safety devices/
Radio safety edges

ACTIVE-R3

degree of IP65 protection

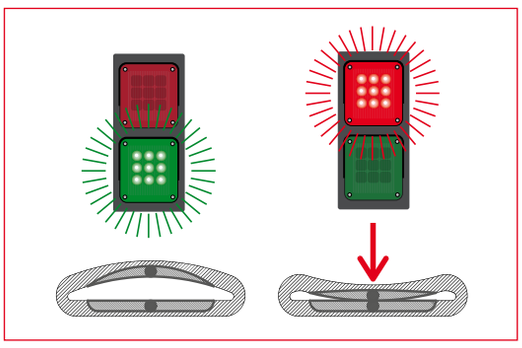
MADE IN ITALY MADE IN SPAIN

Abexo





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

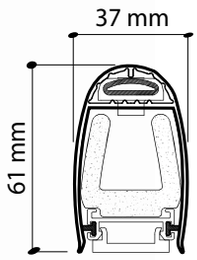


JCM - 1003190
3G RB3 R868
€ 95,10

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

8,2 kΩ

- 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	APE - 563 / 3316	APE - 563 / 3320	APE - 563 / 3325
length 1,20 mt	length 1,60 mt	length 2,00 mt	length 2,50 mt
€ 210,60	€ 229,50	€ 246,30	€ 269,70

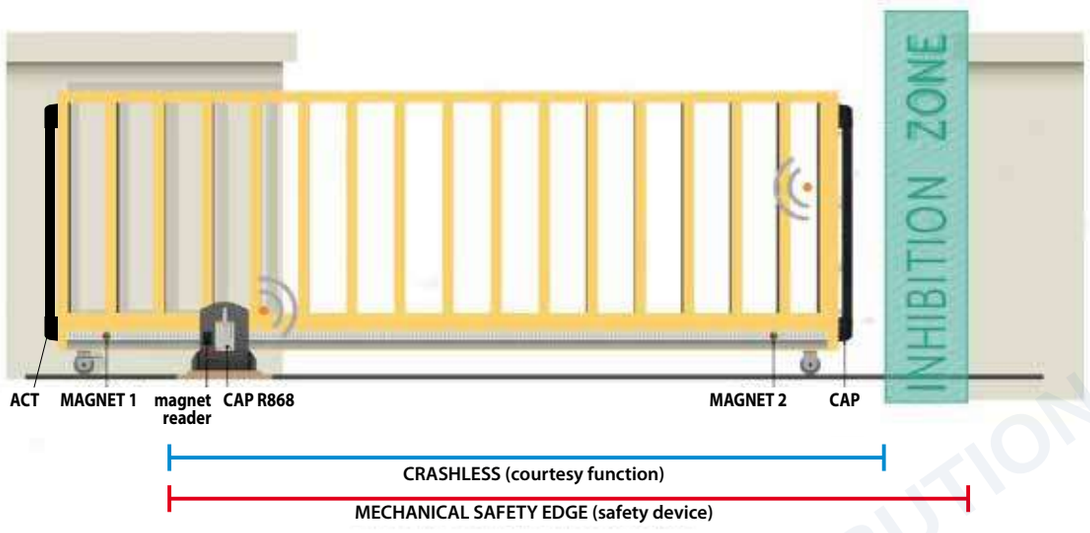
Photocells and safety devices/
Sensitive safety edges

CAPTIVE

CRASHLESS

degree of IP65 protection

MADE IN ITALY

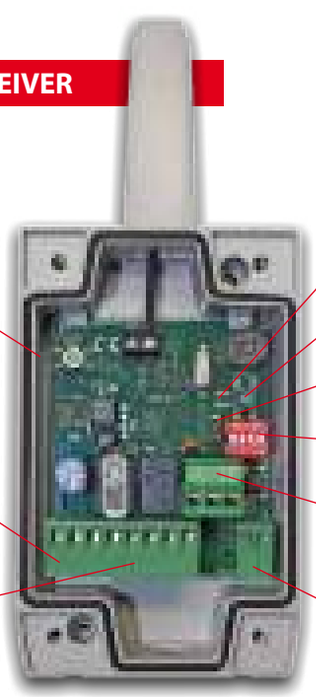


The resistive safety edge, CAP (8,2 kΩ) is a class 2 safety device.
The CRASHLESS courtesy function allows detecting obstacles and avoiding the impact with them (people, car, obstacles in general).

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 R868 RECEIVER



CHECK BUTTON
Verifies the proper functioning of the system

POWER SUPPLY INPUT
12/24 Vac/dc
(9-35Vdc, 8-28Vac)

R1/R2 OUTPUTS
Relay output to inform the control panel of the safety edge status, normally closed contact (CS) and 8k2 (BS) per relay

STATUS RELAY LED

PROGRAMMING BUTTON
To store new transmitters

MR BRIDGE
Transmitters memory reset

OPTIONS SELECTOR

INHIBITORS INPUT
Activates the CRASHLESS inhibitors

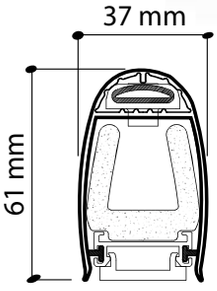
ATEST INPUT
12/24 Vac/dc 5mA input to test (SW4) the system and/or activate the safety edge (SW2)

CONTROL ACCESS DISTRIBUTION

Photocells and safety devices/
Sensitive safety edges



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



APE - 563 / 0012
CAP12
lenght 1,2 mt
€ 257,40

APE - 563 / 0016
CAP16
lenght 1,6 mt
€ 277,50

APE - 563 / 0020
CAP20
lenght 2,0 mt
€ 298,60

APE - 563 / 0025
CAP25
lenght 2,5 mt
€ 323,10



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

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

JCM-1006158
CAP R868 receiver
€ 139,40



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
€ 71,80

CONTROL ACCESS DISTRIBUTION



On the receiver **CAP R86**8, it is possible to link n°1 **CAP** safety edge (channel 1) + n°5 **RB3 T868** transmitters (n°2 on channel 2 + n°3 on channel 2) or n°5 **ACTIVE-R3** edges



Photocells and safety devices/
Photocell with width 27mm

MICRO-P27S

MADE IN ITALY

degree of IP65 protection

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.

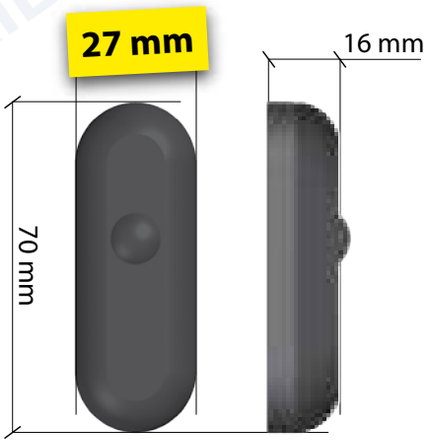


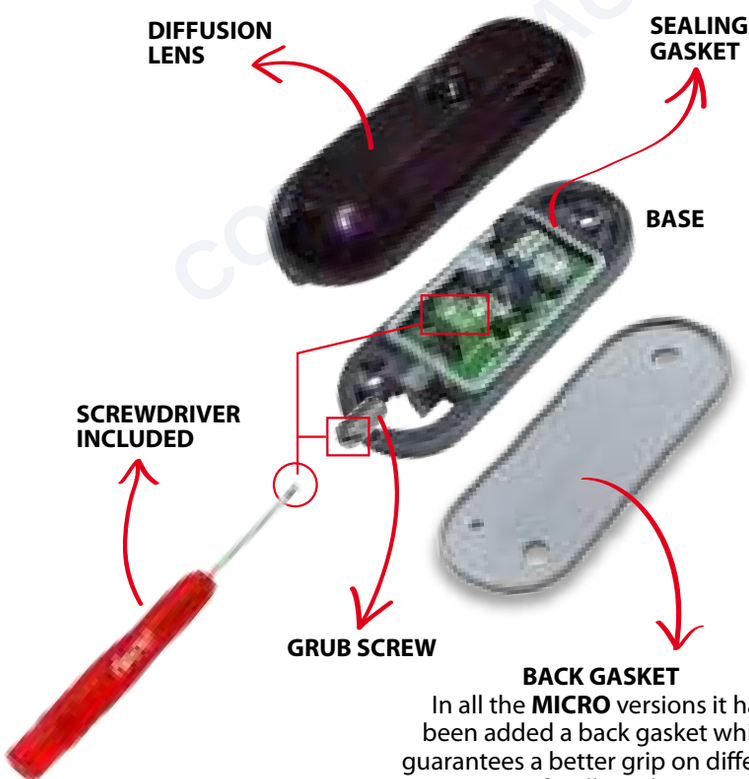
The design was thought taking inspiration from the one of the Micro-Flash e Micro-Traffic, miniaturized and equipped with terminals. To maintain compact dimensions and guarantee maximum performance, an innovative choice was made: using a relay (miniaturized as well) with **REED technology**.

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.





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.



CONTROL ACCESS DISTRIBUTION

Photocells and safety devices/
Photocell with width 27mm


This photo was kindly granted by Ballan SPA


MICRO-FLASH
flashing lights

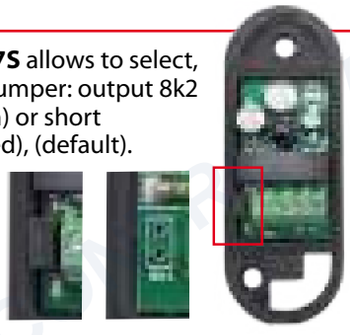
Matching designs

APE - 550 / 1078


PHOTOCELL P27S
transmitter+ receiver

€ 64,70

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



Photocells and safety devices/
Polarized light photocell

REFLEX

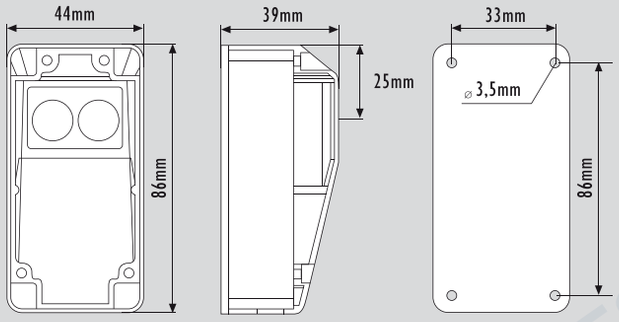
by WITTSensoric A Pepperl+Fuchs Brand



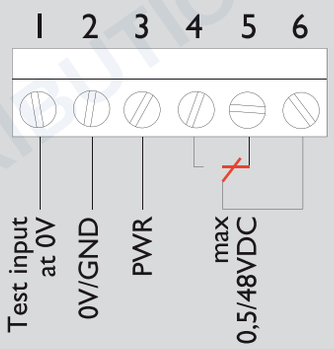
- QUICK AND EASY INSTALLATION REQUIRES THE WIRING FROM ONE SIDE ONLY.
- ON THE OTHER SIDE A REFLECTOR IS FIXED AT THE SAME HEIGHT OF THE PHOTOCELL.
- ALIGNMENT BETWEEN REFLECTOR AND PHOTOCELL IS FACILITATED TO POSITIONING LED (SEE DETAIL DRAWING "ADJUSTMENTS").
- THE FORM REFLECTOR VARIES DEPENDING ON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

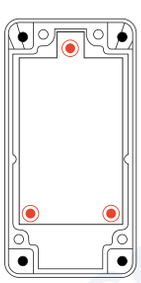
DIMENSIONS



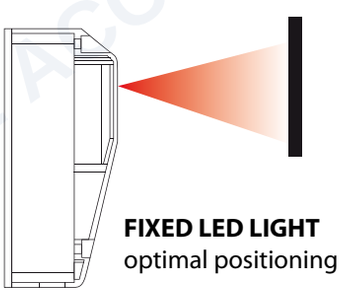
CONNECTIONS



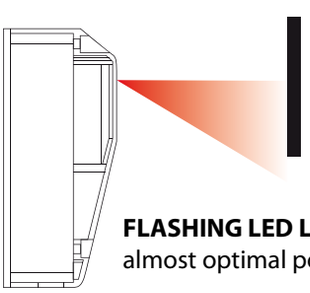
SETTING



Optimal installation after assembly 3 screws beam adjustment



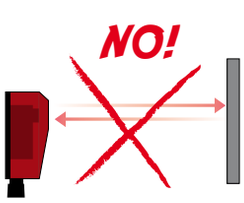
FIXED LED LIGHT
optimal positioning



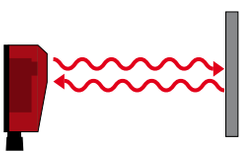
FLASHING LED LIGHT
almost optimal positioning

SAFETY

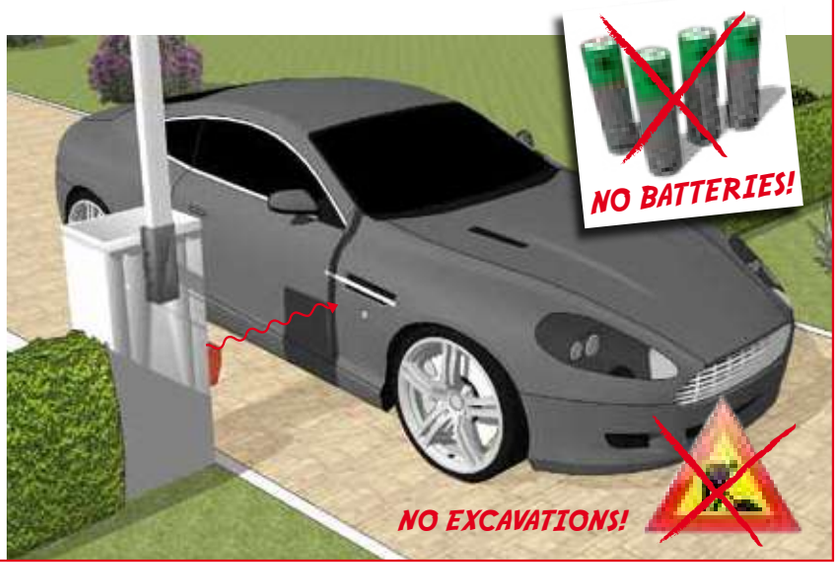
THE LIGHT BETWEEN PHOTOCELL AND REFLECTOR IS POLARIZED AND SO THE REFLEX IS IMMUNE TO "DIRECT" REFLECTIONS EXAMPLE: CAR WITH METALLIC PAINT.



DIRECT REFLECTION (OLD TECHNOLOGY)



POLARIZED REFLECTION (NEW TECHNOLOGY)



CONTROL ACCESS DISTRIBUTION

Photocells and safety devices/
Polarized light photocell

by WITTSensoric A Pepperl+Fuchs Brand

APE - 589 / 0080



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

€ 94,80

APE - 589 / 0100



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

€ 96,80

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

€ 14,40

APE - 589 / 8120



Round reflector
12m. range - 82mm diameter

€ 15,50

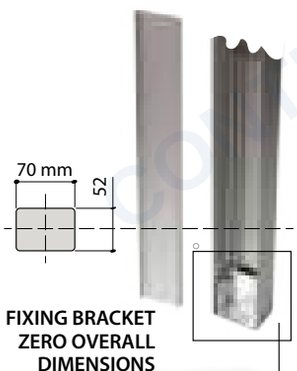
APE - 589 / 8150



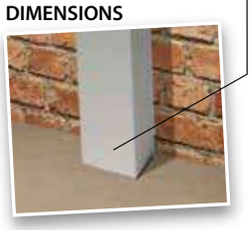
Square reflector
15m. range - W. / H. = 100mm

€ 25,80

APE - 550 / 5084



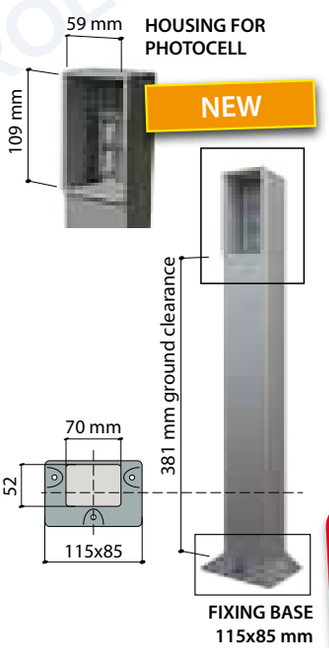
FIXING BRACKET
ZERO OVERALL
DIMENSIONS



PFZ - Non-overhanging fixing base for Dorica, developed to be able to install the column touching the wall. Accessory to replace the standard 115x85 mm base

€ 17,00

APE - 550 / 5041



DORICA 50 CAP
Column h=500 mm with housing and fixing base in TECHNOPOLYMER

€ 57,70

DISCOVER THE ENTIRE RANGE OF DORICA COLUMNS on page A128

APE - 589 / 0200



Black enclosure protection from rain, shock and reflections

€ 10,30

APE - 589 / 8122



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

€ 10,30

APE - 589 / 2000



Pair of universal brackets for Reflex and reflector positioning

€ 20,60

CONTROL ACCESS DISTRIBUTION

Photocells and safety devices/
Fixed photocells

MADE IN ITALY

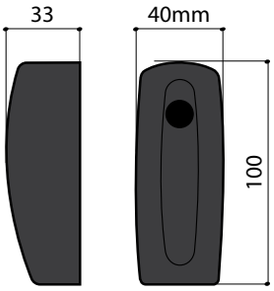
INFRA 16

Synchronized photocells



TECHNICAL DATA

- Power supply: 12/24 Vdc/Vca
- Absorption: 60 ma
- IR wavelenght: 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

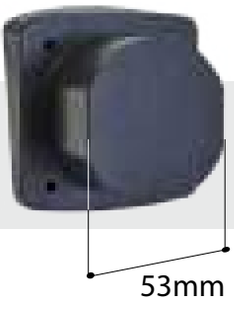


APE - 150 / 8508
Photocells INFRA 16
€ 64,70

SW50

Photocell for recessed mounting



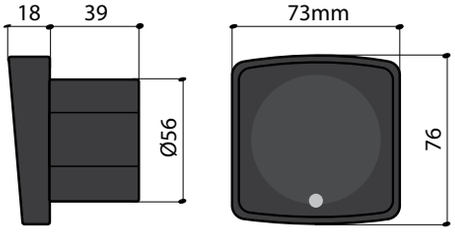


Interchangeable with the most widely used recessed photocells on the market.

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 lenght: 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
€ 64,10

CONTROL ACCESS DISTRIBUTION

Photocells and safety devices/
Orientable photocells

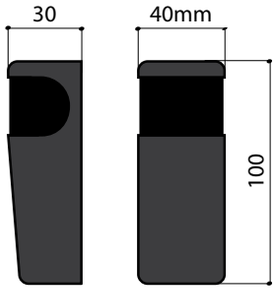
P41

Orientable 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.





TECHNICAL DATA

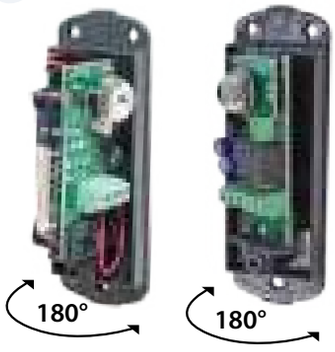
- Power supply: 12/24 Vdc/Vca
- Absorption: 60 ma
- IR wavelenght: 880 nm
- Operating temperature: -20°C to +60°C
- Relay range: 1A - 24V
- Synchronized mode: only if powered with alternating current
- Modulation frequency: 1500 Hz
- Range: 15 m

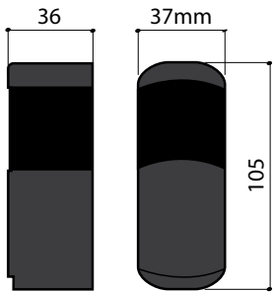
APE - 528 / 1022
Photocells P41
€ 72,50

P37B

Battery-powered orientable photocells







TECHNICAL DATA

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°C to +60°C

APE - 528 / 1037
Photocells P37B
€ 94,80

CONTROL ACCESS DISTRIBUTION

Photocells and safety devices/
Infrared protective barriers

LIGI

NEW

MADE IN GERMANY

CRASHLESS

degree of IP67 protection

Advantages

- **Eliminates sensitive edges on the door**
- **Easy to install due to compact dimensions (16x16mm)**

No impact force measurement required, prevents collision

- **Ideal for doors up to 10m wide**
- **Highly insensitive to environmental influences and highly resistant to vibrations**
- **IP67 protection rating, fully resin-coated**
- **Simple and direct mounting on the door (Ø4mm through holes)**
- **Easy adjustment of the barrier with LED display**

SICURITY DEVICE CERTIFIED EN 12978 / EN ISO 13849, Cat. 2



Certifications

The LIGI model has passed the CE examination at the TÜV Nord certification body in compliance with the requirements of EN 12978 / EN ISO 13849, Cat. 2, PLd / IEC 61496-2 / EN 12445 Chap. 7 / EN 12453 Chap. 5.5.1 / Devices C+D and E without limitation, and has obtained the corresponding certification.

Opening angle conforms to the standard
The LIGI model meets all the requirements of EN 12978, including the required opening angle specified in Chapter 4.3.3 of max. ±5° for transmitters and receivers.

Intelligent functions – simple installation
The safety-related opening angle requirement of ±5° is no problem for the installation of the LIGI model.
Mechanically adjustable clamps and a software adjustment mode are available for this purpose.
In this mode, the reception strength of the optical signal is displayed on the LED indicator via the variable flashing frequency. This ensures the best possible signal reception and, consequently, perfect mutual alignment of the transmitter and receiver when the diode's flashing frequency is at its maximum.

Maximum operational safety
The LIGI model is not very sensitive to external light, so much so that even direct sunlight does not limit its operation.
Even with regard to electromagnetic interference (EMC), such as that which can occur with door drives using frequency converters in the low frequency range, the LIGI model is immune to interference.

Modernisation of older door systems
The photoelectric barrier is perfectly adaptable to the conversion or modernisation of door systems that cannot comply with the maximum closing forces required.

Special versions for lower door heights
For door heights where it is not possible to install the complete LIGI model, such as in underground parking areas (monitoring zones with risk of falls), we offer a variant with the electronics positioned lower. In this way, it is possible to monitor the entire height of the door, even below 2500 mm, without gaps in the protection field.

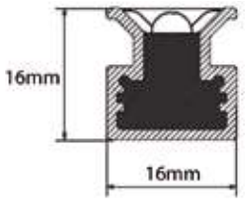
Photocells and safety devices/
Infrared protective barriers

CRASHLESS

Abexo

Versions





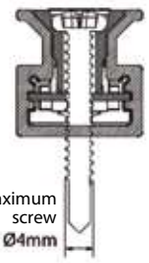
version A
- for high-speed doors
- 56 beams for 2.5 m, one beam every 45 mm

version C
- for all other types of closures/automations
- 23 beams for 2.5 m, one beam every 45 mm up to a height of 500 mm, then one beam every 180 mm

Types of mounting brackets

DIRECT mounting





Mounting with ADJUSTABLE SUPPORT
Included in the package
for replacement > see page A69



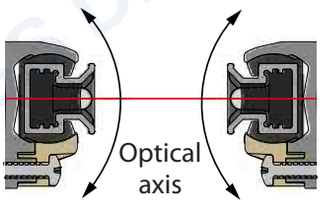
90-degree mounting
supplied with bracket
Optional accessory > see page A69



Installation

The cable connection must always be located at the top.





Optical axis alignment

Align the optical axis of the transmitter and receiver by bringing them closer together and carry out the electrical connection of the LIGI (see operating instructions)

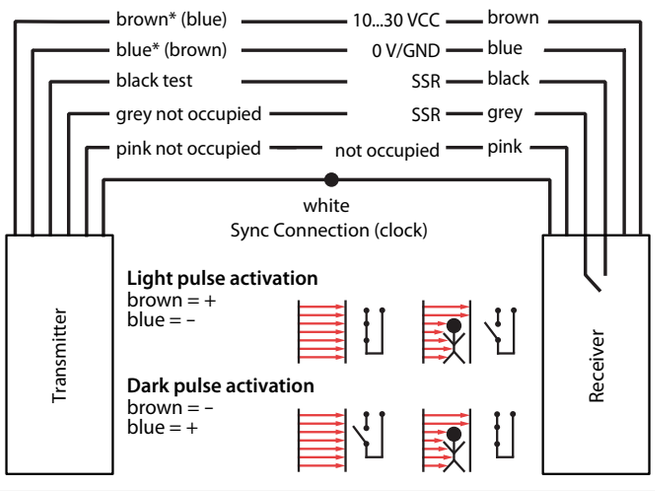
Signal output versions

OSE
The LIGI-OSE light barrier can be operated directly by all control devices via the OSE signal input as a safety edge

PNP signal input
The LIGI-PNP photoelectric barrier can be operated directly by all control devices through a PNP signal input (pulse) as a safety edge. Through the test input in the transmitter bar, the system can be tested for safety functionality using the control device.

SSR
The output of the LIGI-SSR version is a solid-state relay (transistor) that provides a pure NC (normally closed) or NO (normally open) contact to control the input of a control unit for automation.
It provides high performance characteristics using transistor semiconductor technology, particularly in applications where a high switching frequency is required.

H/D-Commutation



* NC-NO switching of the output contact by inverting the polarity of the operating voltage for the transmitter (not available on OUTDOOR versions)

CONTROL ACCESS DISTRIBUTION

Photocells and safety devices/
Infrared protective barriers

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BLANKING FUNCTION
The barriers identify the interruption of the beams caused by the door closing movement from top to bottom without stopping the operation. If the movement is stopped for more than 1.5 seconds during the manoeuvre, the interruption is signalled. The free zone is signalled only after the door has been completely opened, after which unassisted closing is possible.

Technical specifications

Safety parameters	BWS Type 2 in conformity with IEC 61496-2; MTTFD > 100 years; DCAVG > 99% Category 2; PL d (PFH=7.33.10-9 1/h) in conformity with standard EN 61508-2; Category 2 for LIGI-xx-Nxx, LIGI-xx-Pxx and LIGI-xx-Rxx only with external control adapted for testing.
Door width	1,6...10 m
Rated voltage	24 V CC -58% +25% (10...30 V CC)
Current consumption	Transmitter: approx. 30 mA (24 V DC) Receiver: approx. 20 mA (24 V DC)
Power consumption	approx 1,2 W
Protection zone height	max. 2520 mm
Number of channels	max. 57
Type of photocell	infrared modulated
Switching type	light present, i.e. free protection zone: • OSE output = alternating signal (approx. 950 Hz) • PNP output = High level • NPN output = Low level • Semiconductor relay = low ohmic resistance
Opening angle	approx ±5°
Detection range	0...500 mm, object to be detected >= 50 mm - 500...2520 mm, object to be detected >= beam distance +5 mm
Door operation	Max. door speed: - (variant A; closing strip > 100 mm) = 1,1 m/s - (variant A; closing strip > 125 mm) = 1,3 m/s - (variant C; closing strip > 370 mm) = 1,3 m/s

OSE output	Approx. 950 Hz, alternating signal, 4 V 20 mA short-circuit proof, protected against reverse polarity, max. 100 nF, max. 30 µA leakage current Integrated pulldown resistor of 220 Ω
PNP output	100 mA, short-circuit proof, protected against reverse polarity, max. 220 nF, max. 350 µA leakage current, pull-down resistance 10 kΩ...4 k7 (recommended value range) must be present.
NPN output	same as PNP output but with max. 150 µA leakage current
SSR output	100 mA, short-circuit proof, max. 220 nF, max. 30 V CC, max. 21 V AC, semiconductor relay R on < 35 Ω, leakage current < 100 µA.
Light immunity environment	>= 100 klu
Housing material	Die-cast aluminium profile with two-component epoxy resin
Connection	M8 pig-tail connector, 4-pin, L = 130 mm
Protection degree	IP67 conformity with standard EN-60529
Operating temperature	-20°C, +60°C
Storage temperature	-30°C, +70°C
Maximum air humidity	95%
Weight	approx. 1860 gr
Dimensions	2640 x 16 x 16 mm (L x P x H) Length corresponds to the maximum protection zone height of 2520 mm

Extended requirements
TÜV has outlined a scenario of potential risks that should be detected through the use of a photoelectric barrier.
In case of a residual opening greater than 50 mm, the door stops. If in this position, the test piece B (Ø 50 mm) penetrates into the remaining part of the protection field, the barrier must detect it as an obstacle.
Furthermore, the Conference for the exchange of experiences on automatic door and gate systems, which took place on 29 October 2013 in Nuremberg, marked a further development in safety for the application of photoelectric barriers as protective devices for gate systems, raising the regulatory field for the detection of test piece B (Ø 50 mm) from 300 mm to 500 mm above the ground. The LIGI model complies with the increased requirements.

Price list - versions for manufacturers

OSE (version A)	**WI-318725**	**PNP (version A)**	**WI-317339**
Active height 2295mm Total height 2415mm	**€ 738,40**	Active height 2520mm Total height 2640mm	**€ 752,20**

CONTROL ACCESS DISTRIBUTION

Photocells and safety devices/
Infrared protective barriers

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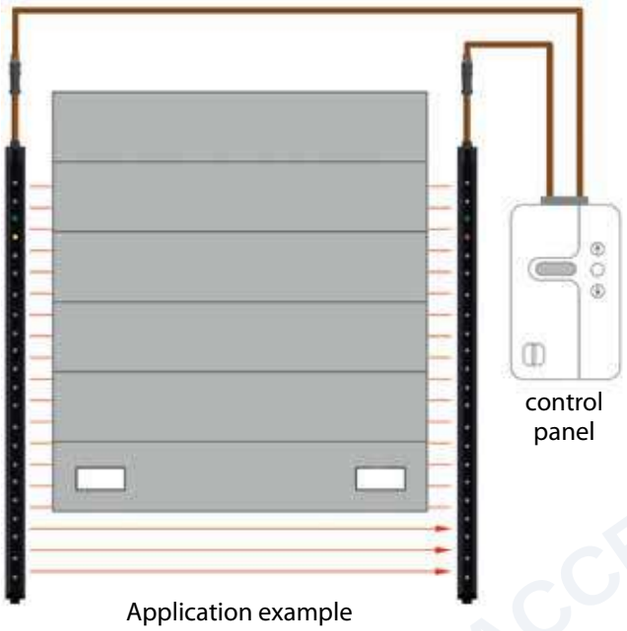
Abexo

Applications

Vertical doors with LIGI installation in guide/axis with the gate
> BLANKING FUNCTION

OUTPUT SSR

The LIGI barrier is designed for industrial doors and has been TÜV-Nord certified.



Application example



HA = active HT = total (mm)	SPEED DOORS version A	price	HA = active HT = total (mm)	VERTICAL CLOSURES version C	price
HA = 1485 HT = 1605	WI-319476	€ 689,60	HA = 1530 HT = 1650	WI-322794	€ 645,10
HA = 1710 HT = 1830	WI-319479	€ 704,50	HA = 1710 HT = 1830	WI-322796	€ 650,30
HA =1890 HT = 2010	WI-319063	€ 715,10	HA =1890 HT = 2010	WI-318928	€ 655,70
HA = 2115 HT = 2235	WI-319482	€ 727,80	HA = 2070 HT = 2190	WI-318934	€ 661,00
HA = 2295 HT = 2415	WI-320886	€ 738,40	HA = 2250 HT = 2370	WI-318940	€ 666,30
HA = 2520 HT = 2640	WI-318922	€ 752,20	HA = 2520 HT = 2640	WI-318949	€ 671,60

LIGI Accessories

FERRITE KIT
Pair of ferrites for filtering electromagnetic interference



WI-320637 € 20,00

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



grado di IP20 protezione

TECHNICAL DATA
AC input voltage: 100÷240 Vac
Output voltage: 24 Vdc
Nominal c/lout current: 0,25÷0,13 A
Output current: 0,5 A

APE-143/0024 € 33,20

For additional information, see page A138

MOUNTING ACCESSORIES



90° mounting bracket
with bracket supplied
(pack of 10 pcs, not available for individual purchase)

WI-316111 € 43,00 pack of 10 pcs, not separately available

Mounting with ADJUSTABLE SUPPORT (spare part)
(pack of 10 pieces, not available individually)



The rubber insert must have its edges facing upwards!

WI-316991 € 45,00 pack of 10 pcs, not separately available

Outdoor version (for external use)
Sliding doors and gates with SSR output with application outside the door movement.

Contact customer service

Photocells and safety devices/

Photoelectric immaterial barriers for sectional and high-speed doors

LIGI07

NEW

MADE IN GERMANY

CRASHLESS

degree of IP67 protection



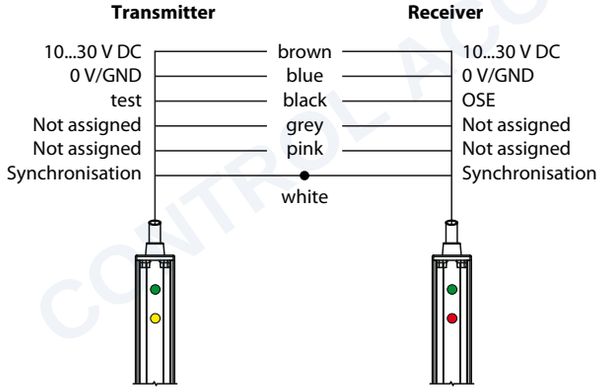
Advantages

- Very compact design
- Long range
- Integrated electronics
- Adaptable to different types of installations

- For doors up to 10 m wide
- Can be installed in the door jamb with the BLANKING feature (beam cancellation)
- Extremely robust, all components are integrated into a single metal body
- Pre-drilled with front holes for direct mounting
- Available with OSE output or solid-state relay (SSR)
- Electronic self-alignment
- Integrated diagnostics
- Highly resistant to external optical interference
- Compact size: only 12x15mm

As with all other Witt products, the LIGI 07 barrier has been specifically designed to operate in the harsh conditions typical of industrial gates. The super-compact, integrated design measures just 12x15mm, offering perfect protection against the humidity and vibrations typical of automatic door installations.
The LIGI 07 barrier sets new standards for the future with state-of-the-art electronics and intelligent firmware.
It is compatible with all standard control units for automation and can be used with almost all existing systems.

Wiring diagram for OSE output



Technical specifications

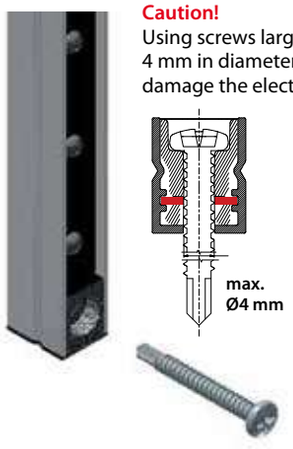
Passage width	1,6 - 10 m
Operating voltage	10 - 30 Vcc
Current consumption	Transmitter: approx. 30 mA (24 Vdc) (24 Vdc) Receiver: approx. 20 mA (24 Vdc)
Power consumption	approx 1,2 W
Optical emission	modulated infrared
OSE output	Approximately 950 Hz, alternating signal, 4 V 20 mA, short-circuit protection and protected against polarity reversal
Maximum leakage current	max 30 uA
Pull-down resistance	220 ohm
Output	SSR solid state relay 100 mA, protected circuits
Intrinsic capacity	220 nF, max. 30 Vcc, max. 21 Vca, Rs on < 35 ohm
Response time	< 100ms
Reboot time	< 400 ms
Environment lighting	> 100 klux
External material	Fully resin-coated aluminium profile
Connector	6-pin M8 plug
Certification	IP67, EN60529
Operating temperature	-20°, +60°C
Storage temperature	-30°, +70°C

Error diagnostic indicators

Legend: ● Fixed LED ★ Flashing LED ⊗ LED off

Error diagnosis via LED indicators

	Transmitter	Performance	Receiver	
Current tension absent	⊗ ⊗		⊗ ⊗	Power Supply check
Reverse polarity on the receiver	⊗ ⊗ ⊗ ⊗ ★ ★ ★ ★	LED flashing 3 times, long pause	⊗ ⊗	Check the voltage at the receiver terminals
Short circuit output		LED flashing red twice, long pause	⊗ ⊗ ⊗ ⊗ ★ ★ ⊗ ⊗	Verify the power supply at the relay output
Failed alignment	⊗ ⊗ ⊗ ⊗ ★ ★ ★ ⊗	LEDs flash 3 times, long pause	⊗ ⊗ ⊗ ⊗ ★ ★ ★ ⊗	Check the synchronisation connection between the receiver and transmitter
Internal error	● ⊗ ● ⊗ ★ ⊗ ★ ⊗	All LEDs are flashing	● ⊗ ● ⊗ ★ ⊗ ★ ⊗	The barrier must be replaced



Caution!
Using screws larger than 4 mm in diameter may damage the electronics

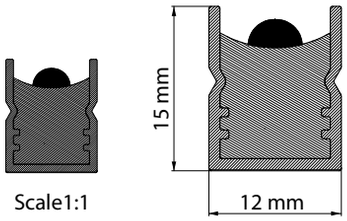
CONTROL ACCESS DISTRIBUTION

Photocells and safety devices/

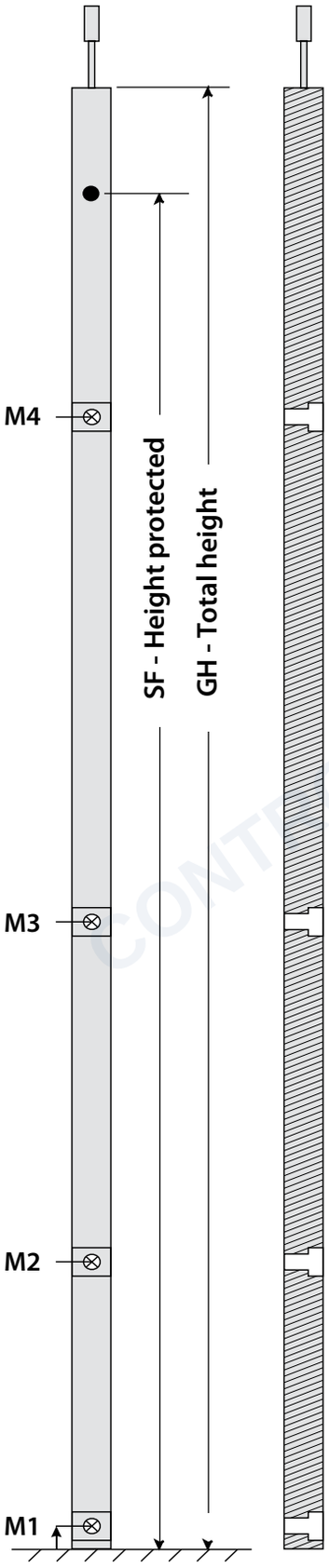
Photoelectric immaterial barriers for sectional and high-speed doors

CRASHLESS

Abexo



Scale1:1



Available versions:

- OSE output with blanking function (gradual beam blanking during door downward movement)
- SSR output (solid state relay) selectable NC/NO, with blanking function

LIGI 07 can ONLY be installed on high-speed doors

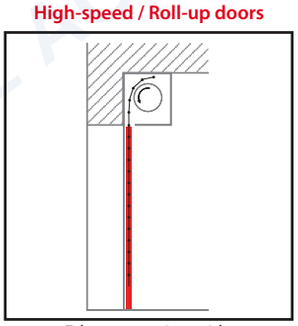
Item codes

All LIGI 07 models are equipped with a 6-pin plug and two cables measuring 5 and 15 metres.

Model	Number of spokes	SF	GH	Item code with SSR output	Item code with OSE output	Price
version "C"						
07 - C20	23	2430	2555	**APE-589/321003**	**APE-589/321033**	**652,00 €**
07 - C19	22	2250	2375	**APE-589/321006**	**APE-589/321036**	**646,80 €**
07 - C18	21	2070	2195	**APE-589/321009**	**APE-589/321039**	**641,70 €**
07 - C17	20	1890	2015	**APE-589/321012**	**APE-589/321042**	**636,50 €**
version "A"						
07 - A54	54	2430	2555	**APE-589/320985**	**APE-589/321015**	**725,10 €**
07 - A51	51	2295	2420	**APE-589/320988**	**APE-589/321018**	**716,90 €**
07 - A48	48	2160	2285	**APE-589/320991**	**APE-589/321021**	**709,70 €**
07 - A46	46	2070	2195	**APE-589/320994**	**APE-589/321024**	**704,50 €**
07 - A43	43	1935	2060	**APE-589/320997**	**APE-589/321027**	**696,30 €**
07 - A40	40	1800	1925	**APE-589/321000**	**APE-589/321030**	**688,00 €**

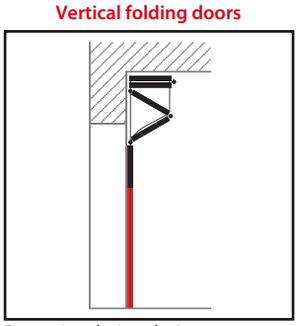
CONTROL ACCESS DISTRIBUTION

High-speed / Roll-up doors



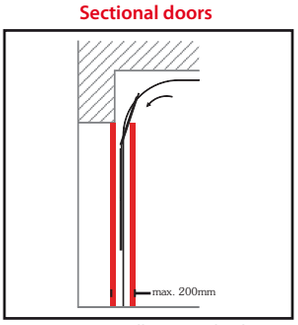
Edge protection with guide installation

Vertical folding doors



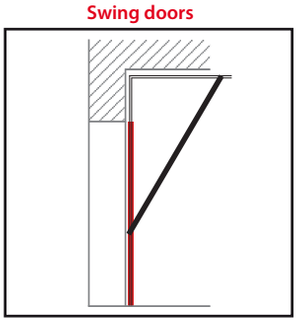
Protection during closing movement with guide installation

Sectional doors



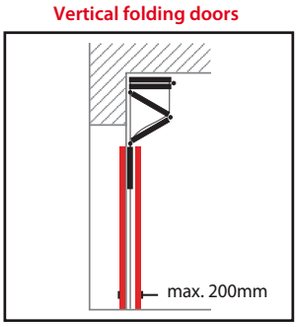
Barrier installation on both sides of the gate, with a threshold of up to 160 mm

Swing doors



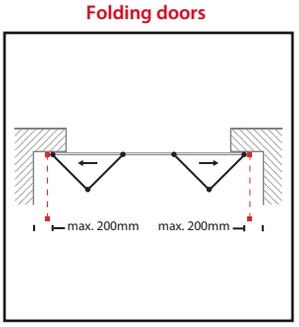
Installation on the movement plane of the end of the gate

Vertical folding doors



Installation on both sides of the gate when installation inside the guide is not possible

Folding doors



Pivot point protection

Photocells and safety devices/
Compact synchronised photocells

ARGOS

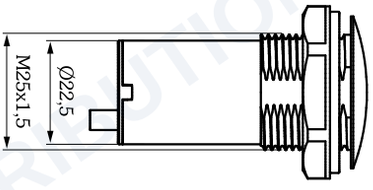
NEW

The **ARGOS** photocell is a barrier sensor designed for flush mounting directly into structural profiles, ensuring discreet and secure installation. Advanced technology ensures reliable detection, resistance to environmental conditions, and optimal integration into any type of structure.

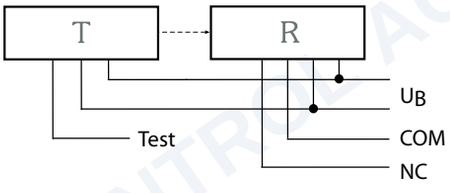


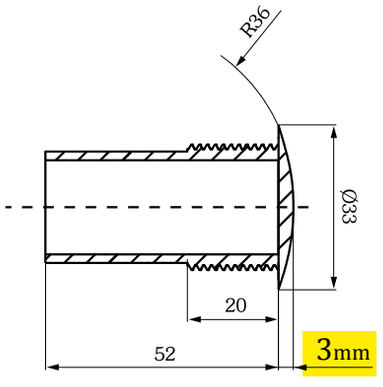
- **Synchronised (2 pairs)**
- **Wear-free semiconductor relays**
- **Clogging indicator**
- **Insensitive to stray light**
- **IP67, electronics fully encapsulated in resin**
- **Pre-wired: cable length 4m**





The wide opening angle ensures operation even in the event of angular deviations due to installation.
The M25 model complies with standardised cable gland dimensions.
The high level of protection of the enclosure structure is ensured by the installation of a sealing gasket.





Technical specifications:
Operating voltage:
10÷40 Vdc / 10÷30 Vac
Door width: 1÷20 m (pre-set)
Output: semi-conductor output
NC contact: potential-free / test input
LED indicators:
Transmitter: green LED
Receiver: red LED
Connection:
Transmitter: 3x0.25 mm²
Receiver: 5x0.25 mm²
Protection degree: IP67
fully encapsulated

APE-589/316408



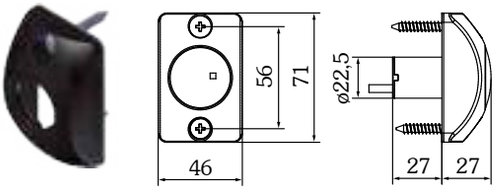
SET ARGOS 2-channel (*) Compact synchronised photocells

€ 134,90

(*) The set includes:
- Transmitter with 4 m cable
- Receiver with 4 m cable

Accessories

APE-589/315919



- Template for flush mounting of ARGOS photocells
- impact-resistant PA6 GF15 plastic

APG-AR

€ 12,40

CONTROL ACCESS DISTRIBUTION

Photocells and safety devices/

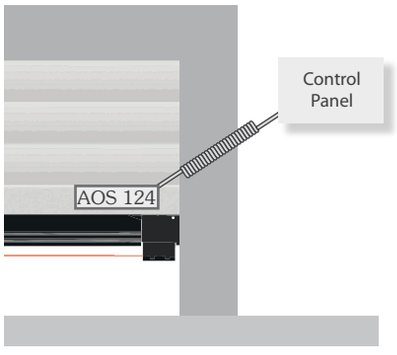
Photoelectric immaterial barriers for sectional and high-speed doors

AOS124

NEW

OSE signal converter for LIGI07



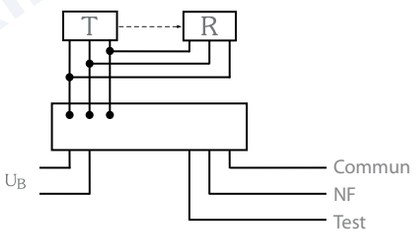


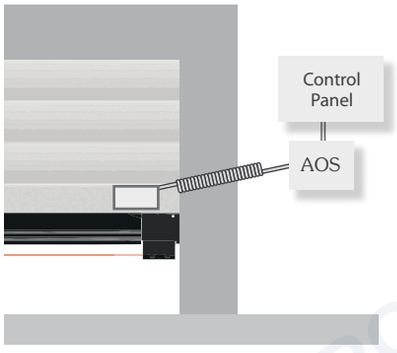
OSE safety device
Panel mounting

Advantages

- 1 input for 1 OSE device
- 1 relay output + test input
- NO or NC relay output
- LED indicators for input and output status
- Category 2 device, compliant with ISO13849-1 standard

The AOS124 signal converter allows a LIGI light curtain with OSE output to be adapted to control panel that do not have this technology. The OSE signal is converted into a relay signal (potential-free).

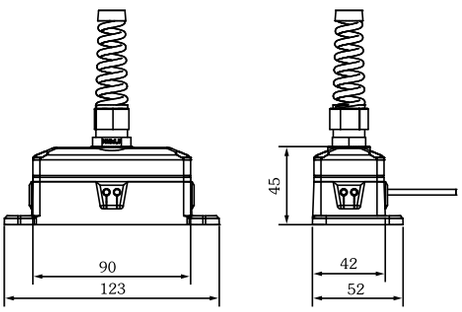


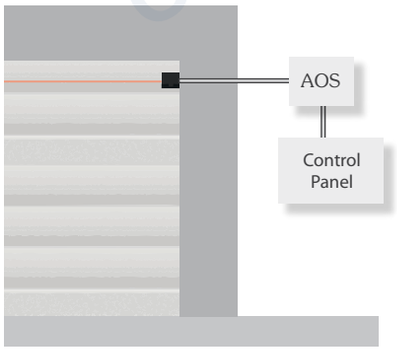


Safety device



LAD2: junction box in impact-resistant ABS





Protection against the risk of entrapment

Technical specifications

Power supply	19...35 VCC o 19...30 VCA
Input	1x OSE signal
Output	Relay/TEST inputs
Light Indicator	Yellow LED
Security	Cat. 2, ISO 13849-1
Protection degree	IP65

Package includes:
AOS124 card, LAD2 case, seals, M16 protective spiral screw

APE-589/322865
AOS124 signal converter set AOS124
€ 83,40

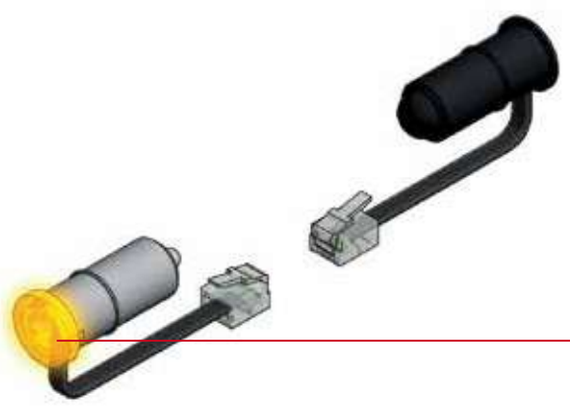
CONTROL ACCESS DISTRIBUTION

Photocells and safety devices/
Optics for sensor profile

WS-SIGNAL 15

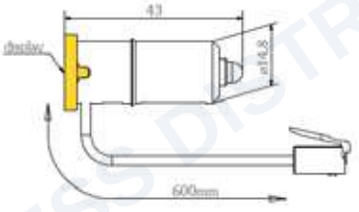
NEW

The **WS-SIGNAL 15** optical probe profile device is equipped with an integrated diagnostic system that provides an output indicating the quality of the rubber profile. This system is integrated into the transmitter, so no other measuring instruments are required. All visible LED indicators show the switching states.
This enhances operational safety and is also useful for maintenance operations. The precise self-calibration of the sensors ensures consistent switching behavior across all door widths.

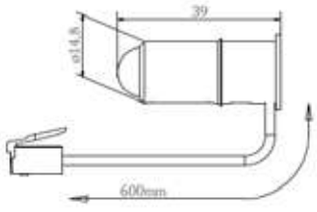


- **RJ connector compatible with Hörmann control panels**
- **Diagnostic system with integrated LEDs**
- **Switching status indicators**
- **Insensitive to wind loads and bending**
- **High immunity to electromagnetic interference (EMC)**
- **Protection against polarity reversal and short circuits**
- **Regulated transmitted power**

Transmitter



Receiver



Technical specifications

Optical range	From 1 to 12 metres, depending on the quality of the rubber profile
Operating voltage	From 10 to 16 VDC, with reverse polarity protection
Electricity consumption	40 mA (±2 %)
Light type	Pulsed infrared, 880 nm
Diagnostic display	Yellow LED ring for rubber profile diagnostics, flashes from 1 to 16 pulses
Operating display	Yellow LED ring lights up when the safeguard edge is activated
Signal output	transistor, max. load 20 mA, protected against short circuits
Output level	rectangular signal – low: 0 to 1 V / high: 3 to 5 V
Signal frequency	usually 900 Hz
Materials supplied	Transmitter: ABS plastic Receiver: Lexan, IR transparent
Connection cable	PVC, 600 mm with modular connector
Protection degree	IP67 according to EN60529, encapsulated with 2K epoxy resin
Operating temperature	-25°C,+60°C
Storage temperature	-25°C,+75°C
Weight	of receiver: 21gr of transmitter: 20gr

For installation on doors with a modular connector system.
The WS-SIGNAL optical safety device is an innovative, high-quality product equipped with a modular connector compatible with the Hörmann SKS system.

Diagnostics

After the electronics are powered up, the system evaluates the quality of the rubber profile. The result is displayed as a series of flashes from the LED indicator light, visible on the outside of the profile:

- 01 to 06 flashes: optimal conditions
- 07 to 14 flashes: good conditions
- 15 to 16 flashes: the safety profile is still functional, but operational safety cannot be guaranteed in the long term. It is recommended to check the rubber profile for possible damage or impurities.

To restart the diagnostics, simply disconnect and then reconnect the power supply.
After the diagnostic indication, the device automatically switches to standard mode, and only the yellow LED lights up when the light beam is interrupted.

Box includes:
- nr.1 transmitter unit
- nr.1 receiver unit

APE-589/318968
WS-SIGNAL 15
Optical sensors for sensitive security edges
€ 80,30

CONTROL ACCESS DISTRIBUTION

Photocells and safety devices/
Optics for sensor profile

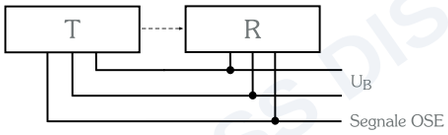
LOW POWER SIGNAL

NEW



- **Universal sensor profile**
- **Extremely low power consumption**
- **Integrated diagnostic system with visual display**
- **LED indicator for switching status**
- **OSE output signal**
- **IP 67, fully protected electronics**

The **LOW-POWER-SIGNAL** automatically selects the output frequency depending on the connected device: safety signals transmitted to a battery-powered radio link will therefore have a lower frequency than if they were sent directly to the control panel via a spiral cable.
This increases battery life and ensures compatibility with most control panels on the market.



Diagnostic system with visual display: the LOW-POWER-SIGNAL safety edge tests the rubber profile for optical quality after engagement. The optical quality results from the rubber compound, door width, deflection, dirt, etc. The optical values of the rubber profile are indicated by a flash code of 1 to 3 pulses.

1 flash = optimal condition; 2 flashes = good condition; 3 flashes = operational limit reached.

Switching status indicator LED: activation of the device is indicated by a steady yellow LED.

For wide doors: the LOW-POWER-SIGNAL has been developed using a new optical system, which allows for significantly greater door widths of up to 12 metres.

Less sensitive to wind loads and bending: LOW-POWERSIGNAL exhibits improved switching performance in difficult conditions, due to its optical characteristics and new adjustment method.

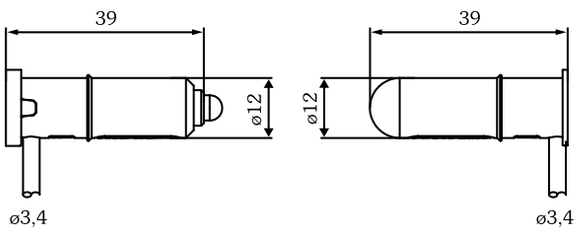
High immunity to electromagnetic interference: the LOWPOWER-SIGNAL has high immunity to electromagnetic interference produced by motors with inverters or static discharges from PVC panels.

Resistant to voltage reversals and short circuits: the LOWPOWER-SIGNAL is immune to incorrect wiring.

Regulated transmission power: improved regulation of the transmission power allows for approximately equal closing forces

at different door widths.

Full compatibility: the LOW-POWER-SIGNAL is compatible with all control panel and radio bridge systems on the market.



Technical specifications

Power supply	3...27 VCC
Maximum door width	1...12 m
Output	OSE signal
Warning lights	Yellow LED indicator
Connections	3x0,14 mm²
Protection degree	IP67, electronics encapsulated in epoxy resin

APE-589/316397
LOW POWER SIGNAL Optics for sensitive security edges
€ 62,80

Box includes:
- Transmitter with 1 m cable and Molex connector
- Receiver with 10.5 m cable and Molex connector

CONTROL ACCESS DISTRIBUTION

Photocells and safety devices/
Spiral cable

SPK

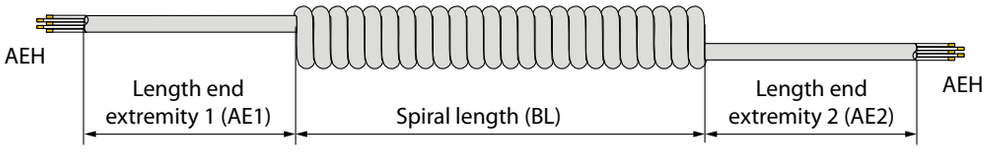
NEW



SPK spiral cables are made from high-quality materials, making them suitable for the most intensive installations. The extension factor is four times the block length (BL).
Spiral cables are resistant to microbes, hydrolysis and almost all mineral oils, thanks to a special sheath compound.
In addition, spiral cables are UV-stable and halogen-free.
The material is black PUR/PUR, the colour of the wires complies with DIN 47100:

3 wires = brown, white, green
4 wires = brown, white, green, yellow
5 wires = brown, white, green, yellow, grey
6 wires = brown, white, green, yellow, grey, pink

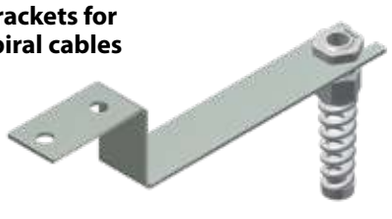
Variable cable ends (see table), including 40, 50, 60, 80, 100 or 200 mm without sheath and equipped with cable lugs (AEH).



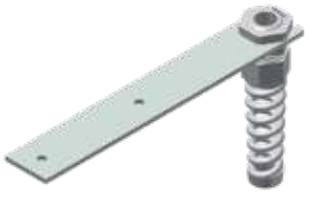
Designation	Spiral length	Total cable length	Length end extremity 1 (AE1)	Length end extremity 2 (AE2)	code	Price list
3 wires						
SPK 3x0,5 mm²	750	3000	200	200	**APE-589/314769**	**29,90 €**
SPK 3x0,5 mm²	900	3600	200	200	**APE-589/314780**	**41,20 €**
SPK 3x0,5 mm²	900	3600	4000	350	**APE-589/314927**	**48,40 €**
SPK 3x0,5 mm²	750	3000	500	200	**APE-589/314931**	**30,90 €**
SPK 3x0,5 mm²	600	2400	500	200	**APE-589/314921**	**26,80 €**
SPK 3x0,5 mm²	950	3800	500	200	**APE-589/314924**	**31,90 €**
4 wires						
SPK 4x0,25 mm²	750	3000	200	200	**APE-589/314851**	**30,90 €**
SPK 4x0,25 mm²	900	3600	1000	400	**APE-589/314772**	**41,20 €**
SPK 4x0,25 mm²	1200	4800	4000	400	**APE-589/314774**	**50,50 €**
SPK 4x0,25 mm²	900	3600	2000	350	**APE-589/315455**	**45,30 €**
5 wires						
SPK 5x0,25 mm²	500	2000	1000	200	**APE-589/314767**	**36,10 €**
SPK 5x0,25 mm²	750	3000	200	200	**APE-589/314721**	**34,00 €**
SPK 5x0,25 mm² WHITE	750	3000	200	200	**APE-589/314876**	**37,10 €**
SPK 5x0,25 mm²	800	3200	1500	200	**APE-589/314765**	**43,30 €**
SPK 5x0,25 mm²	900	3600	200	300	**APE-589/314745**	**41,20 €**
SPK 5x0,25 mm²	900	3600	2000	350	**APE-589/314923**	**46,40 €**
SPK 5x0,25 mm²	1000	4000	1000	1500	**APE-589/314874**	**51,50 €**
6 wires						
SPK 6x0,25 mm²	900	3600	4000	350	**APE-589/316978**	**62,80 €**

CONTROL ACCESS DISTRIBUTION

Brackets for spiral cables



APE-589/315097
"Z"-shaped brackets for spiral cable
€ 8,20
including M16 spiral fixing screws



APE-589/315098
Brackets for spiral cable
€ 8,20
including M16 spiral fixing screws

Photocells and safety devices/
Crushing force gauge for gates and motorized doors

CERTIFIKO

MADE IN ITALY

Abexo

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



USB port: for downloading measurements stored by the instrument to the BLUE FORCE software.

Firmware: upgradeable wirelessly

Battery: rechargeable, lithium-ion

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

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

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

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



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

KIT BLUE FORCE SMART PRO

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

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



CONTRO

Metal mass detectors

Barrier sensors

2-year warranty for ABEXO products

Activation and presence detector EVOLOOP / *A80*
Security laser barrier detector LZR-H100 / *A82*
Metal mass detectors MAGNETIX / *A84*

Abexo® AUTOMATION ACCESSORIES

Metal mass detectors - Barrier sensors/
Activation and presence detector

EVOLOOP

NEW

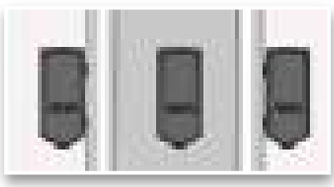
degree of IP65 protection

MADE IN BELGIUM



EVOLOOP is an activation and presence detector for automatic barriers, with integrated microwave technology **MoWa** based on FMCW principles. Is the alternative to induction loops and photocells and it detects motion and static presence.
It has a **type D safety certificat**.
Thanks to the 140° field of view, you can configure up to 3 virtual loops independently to fit your application.
The loops can be positioned where you desired within this range. For each loop you can decide whether it should function as a presence loop or as a protection loop.
The EVOLOOP detector is particularly resistant in all environments and conditions, including challenging weather like fog, heavy rain, frost or snow.

MOWA INSIDE





For opening, EVOLOOP is able to IDENTIFY pedestrians from cars



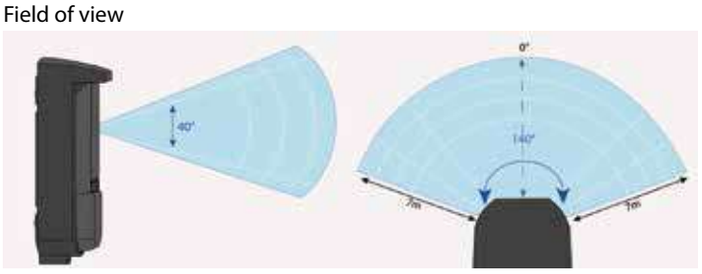
No more dusty road works with noisy and heavy equipment. Enjoy an installer-friendly, clean and time-saving experience with EVOLOOP.
Just mount the sensor, plug it and launch a teach-in. Ready to go!



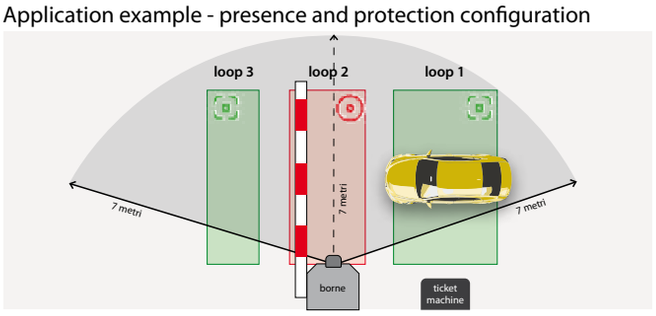
The EVOLOOP is adapted to all applications, whether you need to set up a pay parking system or protect users from a collision with the barrier.
It can be installed on all types of barriers, even with a hedge or articulated support.

DETECTION RANGE

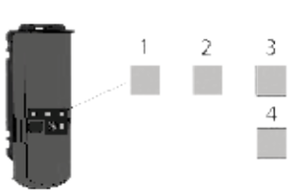
Field of view



Application example - presence and protection configuration



LED INDICATION

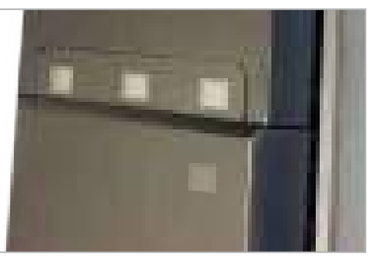


1. LED indicating plug status 1
2. LED indicating plug status 2
3. LED indicating plug status 3 or ERROR status
4. LED indicating Bluetooth® status

Presence loop: activates the output signal if it is detected an object that corresponds to the type and to the predefined direction.

Protection detection: activates the output signal for any object.

Bluetooth® (only on LED 4)



Metal mass detectors - Barrier sensors/
Activation and presence detector

Technology: FMCW, MoWa inside (60GHz microwave)
Mounting height: 30 cm to 70 cm
Maximum detection distance: maximum no 7m
Detection types: presence, protection
Radar field of view: 140° opening field and 40° elevation
Antenna angle adjustment: from -20° to +20° (without accessory)
Power supply: 12 - 30V DC +/-10% - 12-24V AC +/-10%
Output: 2 electronic relays (galvanic isolation - no polarity)
> Maximum switching voltage: 35 V DC/ 24 V AC
> Maximum current switchable: 80 mA (resistive)

Power consumption: < 3 W
Led: 3 RGB LEDs and 1 white LED for Bluetooth®
Bluetooth®: operating bandwidth: 2402 MHz - 2480 MHz
Material/ Colour: PC/ ASA/ Aluminium ADC12 - black
Cable length: 3 m (standard)
Dimensions: 50 mm x 150 mm x 68 mm
Protection degree: IP65 (IEC/EN 60529)
Operating temperature: -25°C to +55°C** ; 0-95% relative humidity, non-condensing
Standards: EN 12453 (type D)

APPLICATIONS


Access Control


Parking


Pedestrian barriers

INSTALLATION VIA APP
Scan the QR code or open the following link to download the application for mobile devices and install it.

https://is.gd/2Wv8ss

After installation, it will be possible to make the association between the smartphone and the Evoloop detector

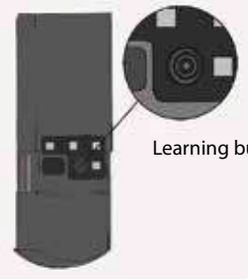


Start a simple self-learning process with the mobile application and set up to 3 virtual loops independently to adapt them to your application requirements.








Learning button

APE - 790 / 5082



EVOLOOP
3-channel detector + standard polycarbonate cover

€ 1.555,00

Accessories

APE - 790 / 5101



metallic cover

€ 92,50

APE - 790 / 5102



metal mounting bracket

€ 185,00

APE - 790 / 5103



protection box

€ 218,30

APE - 790 / 5104



metal mounting bracket + protection box

€ 351,50

Metal mass detectors - Barrier sensors/
Security laser barrier detector

LZR-H100

NEW

CRASHLESS

MADE IN BELGIUM

LZR-H100 detector offers a real alternative to magnetic loops: less time required for installation, detection of all types of vehicles and greater adaptability.
The laser sensor for automatic barriers is used to open, protect and/or detect a presence. It offers great flexibility in defining the width and depth of the detection zones.

LASER Technology

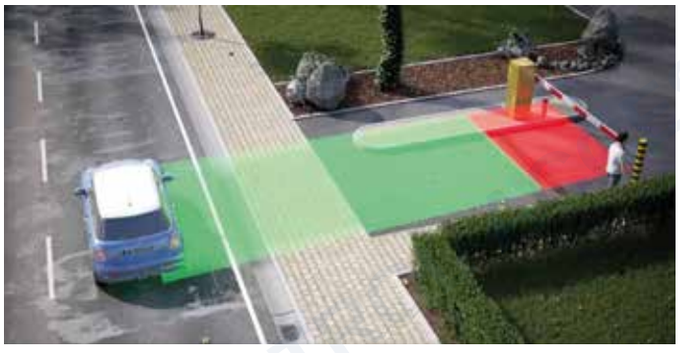
ENERGY SAVING



Comfortable opening
Detection of all types of vehicles: cars, electric vehicles, vehicles made of composite materials, trucks with trailers, etc.
Detection of vehicle trajectory: approaching or moving away.



User safety
LZR-H100 protects vehicles and people within the safety field from contact with the barrier (installation with reference point).



Pedestrian & parallel traffic filter
The barrier only opens when a vehicle is approaching.
Pedestrians and parallel traffic in the opening field are screened.



Easy installation
Product installation without any impact on the surrounding environment, with simple delimitation of the detection fields independently from one another, by walking in front of the sensor.



Certified
PL «d» / CAT2
EN-ISO13849-1
EN12453

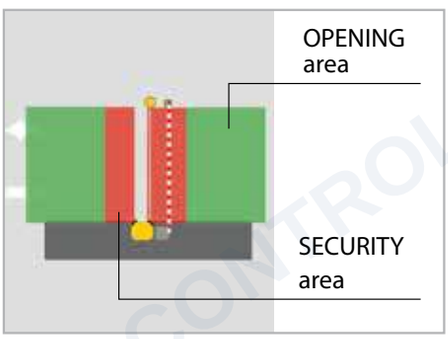
visit our website
for more information
and complete technical specifications
https://bit.ly/2Hucv6i

Metal mass detectors - Barrier sensors/
Security laser barrier detector

Technology: laser scanner, time-of-flight (ToF) measurement
Maximum detection distance: 9.9 m × 9.9 m
Emission specifications:
IR laser (CLASS 1) = wavelength 905 nm; max. pulse output power 0.10 mW
Visible laser (CLASS 2) = wavelength 635 nm; max. CW output power 0.95 mW
Power supply: 10-35 V DC on the detector side
Input: 1 optocoupler (galvanic isolation - non-polarised)
Output: 2 electronic relays (galvanic isolation - polarity-free)
Maximum switching voltage: 35V DC / 24V AC
Maximum switchable current: 80 mA (resistive)
Power consumption: < 5 W
Response times:
Motion detection: typically 200 ms (adjustable);
Presence detection: typically max. 20 ms; max. 80 ms
Vibrations: < 2 G
Material/Colour: PC/ASA/black
Dimensions: 125 mm (W) × 93 mm (D) × 70 mm (H) (mounting bracket + 14 mm)
Protection degree: IP65
Operating temperature: -30°C, +60°C under voltage / -10°C, +60°C without voltage
Compliance: EMC 2014/30/EU; LVD 2014/35/EU; RoHS 2 2011/65/EU; MD 2006/42/EC
EN 61000-6-2; EN 61000-6-3; EN 60950-1; EN 60825-1; EN 50581;
EN ISO 13849-1 (PI "d" CAT 2); EN 62061 (SIL 2); EN 61496-1 (Type 2); EN 12978; EN 12453 (Device E)

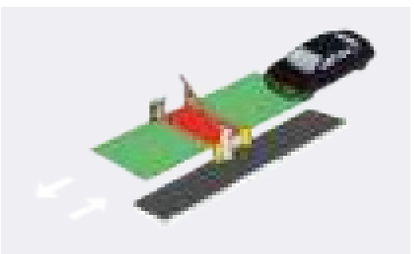


Security device also for AUTOMATIC BOLLARDS areas



APPLICATIONS: AUTOMATIC BARRIERS


Dual access lane


Single access lane

APE - 790 / H100



LASERSCAN LZR-H100

€ 1.780,00

APE - 790 / 1185



SUPPORT BRACKET FOR LZR-H100

€ 545,90

Accessories > see page A53



mandatory for programming LZR-H100

CTRL CONTROL REMOTE



LZR-BA SUPPORT

CONTROL ACCESS DISTRIBUTION

Metal mass detectors - Barrier sensors/
Loop detector

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.
The MAGNETIX line is available in the BASIC model with 12/24V single-channel DIN rail mounting and in the DETEC and MATRIX models with Undecall base mounting in single or dual-channel 230V or 24V versions.

APPLICATIONS



MATRIX

Immunity - 4 frequency settings to avoid any interference.
Sensitivity - MATRIX is equipped with ABS function to detect vehicles with raised chassis, tow bars for trailers and forks of forklift trucks.
Directionality - Possibility to determine the direction of the vehicle with the 2-channel version.
Universal - with standard base, MATRIX can be integrated into most control boxes.



MATRIX-S



- Power supply: 12-24 Vac/Vdc
- Output: **1 relay output**
- Inductance: from 20 to 1000
- Sensitivity: 250 stages
- Response time: 25 ms
- Temperature: -30°C to +70°C
- Protection degree: IP40
- Max. voltage at contacts: 230 Vac
- Max. current at contacts: 5 A
- Includes 11-pin socket for DIN rail
- Dimensions: 77 x 40 x 75 mm

Power supply
12-24 Vac/Vdc
output
1 relay output

APE - 590 / 0034
€ 222,50

MATRIX-D



- Power supply: 12-24 Vac/Vdc
- Output: **2 relay outputs**
- Inductance: from 20 to 1000
- Sensitivity: 250 stages
- Response time: 50 ms
- Temperature: -30°C to +70°C
- Protection degree: IP40
- Max. voltage at contacts: 230 Vac
- Max. current at contacts: 5 A
- Includes 11-pin socket for DIN rail
- Dimensions: 77 x 40 x 75 mm

Power supply
12-24 Vac/Vdc
output
2 relay outputs

APE - 590 / 0037
€ 341,70

CONTROL ACCESS DISTRIBUTION

Metal mass detectors - Barrier sensors/
Loop detector

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



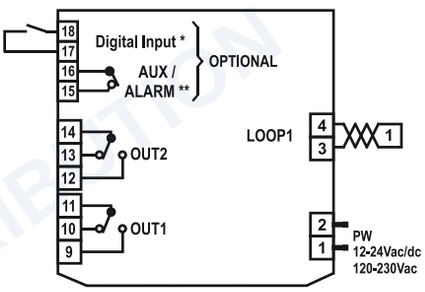


BASIC
Single Channel detector 12-24V DIN rail mounting





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 + 1 Green LED
Data storage: on EEPROM
Housing: plastic 111x28x92, 5mm
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

Power supply **12-24 Vac/Vdc**
channels **1**

APE - 550 / 1224
€ 167,70

MADE IN ITALY

BASIC-DGL
12-24V detector 2 channels for DIN rack



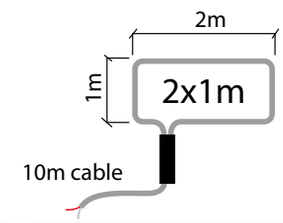
Technical details like **BASIC**, but more:
· 10 sensitivity levels
· Selection of the type of action: just 1 loop / 2 independent loops / with or without direction signal
· Display of every loop working frequency
· Stability check of loop frequency to test the loop correct installation
· Dynamic release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

Power supply **12-24 Vac/Vdc**
channels **2**

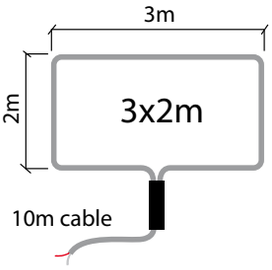
APE - 550 / 1230
€ 200,10

LOOP
Cabled loop





APE - 590 / 0062
LOOP 6 - cabled loop 2mt x 1mt
€ 48,90



APE - 590 / 0063
LOOP 10 - cabled loop 3mt x 2mt
€ 55,70

CONTROL ACCESS DISTRIBUTION



Detectors and Sensors for industrial doors

2 anni di garanzia per i prodotti ABEXO

Industrial door sensors (opening) RM620 / *A88*
Industrial door sensors (opening and safety) / *A89*

Abexo® AUTOMATION ACCESSORIES

Detectors and Sensors for industrial doors/
Sensors for industrial doors (opening)

RM620

MADE IN ITALY



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

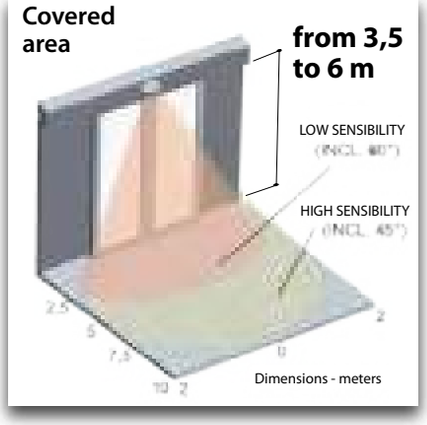
degree of IP65 protection

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
- **height of installation: from 3,5 to 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

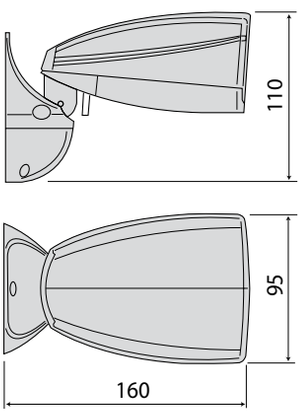
from 3,5 to 6 m





unidirectional/bidirectional, X band sensor

Dimensions



APE - 551 / 0620
Microwave sensor for industrial doors RM620
€ 312,60

Detectors and Sensors for industrial doors/
Sensors for industrial doors (opening control only)

FALCON

Functional features: detects and discriminates parallel traffic of pedestrians and vehicles, preventing the door from





Discriminates pedestrians from vehicles regardless of their speed







TECHNICAL DATA

- Technology: Microwave and microprocessor
- Transmitter frequency: 24.125 GHz
- Transmitter power: <20 dBm EIRP
- Transmitter power density: <5mW/cm2
- Angle of inclination: from 0° to 180° in elevation
- **Mounting height: 3.5 to 7 m**
- **Minimum detection speed: 5 cm/s** (in the sensor axis)
- Detection zone (typical): 4 m (W) x 5 m (D) (installation height 5 m)
- Detection mode: movement
- Supply voltage: 12V to 24V AC +/- 10%, 12V to 24V DC +30% / -10%
- Power consumption: < 2W
- Output relay: potential-free contact
- Max. voltage at contacts: 42V AC/DC
- Max. current at contacts: 1A (resistive)
- Max. switching power: 30W (DC) / 60 VA (AC)
- Manual adjustment: orientation of detection field (mechanical) / Multiple functions (via buttons)
- Temperature range: -30°C to +60°C
- Product compliance: R&TTE-1999/5/EC, EMC-89/336/EEC
- Dimensions: 127mm (D) x 102mm (W) x 96mm (H)
- Housing: black ABS and polycarbonate
- Aluminium bracket: black anodised
- Cable length: 10 m

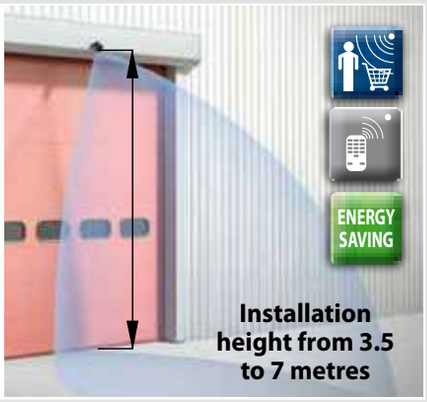
Microwave sensors for doors and gates opening industrial

FALCON — APE - 790 / 0028



Installation height: **3,5 ÷ 7m**
Protection degree: **IP65**

€ 387,00



FALCON-XL — APE - 790 / 0029



Installation height: **2 ÷ 3.5 m**
Protection degree: **IP65**

€ 399,00

Detectors and Sensors for industrial doors/
Sensors for industrial doors (opening and security)

CONDOR

MADE IN BELGIUM

CONDOR is a presence and motion sensor for industrial doors, which integrates a microwave motion detector and an active infrared presence sensor into a single product.
Active infrared technology detects any vehicle or object stationary near the door.



Dual technology

ENERGY SAVING

IP65 protection

The dual technology of microwaves (motion) and active infrared (presence) is an excellent alternative to magnetic loops: door opening and surveillance of the area in front of the door. It filters parallel traffic, pedestrians and any interference and is easy to install.



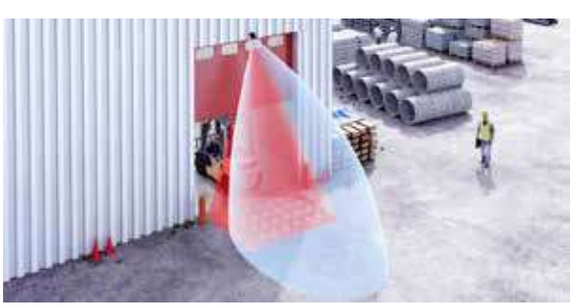
adjustment/programming options
via CRTL and SPOTFINDER remote control
see page A53



Designed for industrial environments
IP65, robust housing and solution against vibrations and environmental interference.



Reliable and accurate
The planar antenna allows for accurate discrimination between pedestrians and vehicles and does not detect parallel traffic.



Energy saving
Presence detection reduces the use of the door timer, allowing energy savings proportional to the number of opening cycles.

TECHNICAL DATA

Mounting height	**3,5 - 6 m**
Power supply voltage	12V a 24V AC ±10%; 12V a 24V DC +10% / -3%
Mains frequency	50 - 60 Hz
Power consumption	< 3,5 W/VA
Output	n.2 relays with potential-free switching contact
Operating temperature	-30° C, +60°C (0-95% relative humidity, non-condensing)

Technology	**Doppler radar Microwave**	**Active infrared**
Detection mode	Movement	Movement and presence
Emitted frequency/ wavelength	24.150 GHz	875 Nm
Power density emitted	< 5 mW/cm 2	< 250 mW/m2
Detection range	4 x 5 mt	4x4 mt (emission points)*
Minimum detection speed	5 cm/sec	5 cm/sec to activate a detection
Reaction time	100 ms	250 ms
Inclination angle	- 8° / 22° (el. to the front panel)	15° / 45°

Compliant with regulations	EN 300 440-2 V1.4.1, EN 301 489-1 V1.9.2, EN 301 489-3 V1.6.1, EN 62311, EN 62479

** area detected with the SPOTFINDER, slightly larger than the detection range*

APE - 790 / 28DT
Sensor CONDOR
€ 784,00

CONTROL ACCESS DISTRIBUTION

Detectors and Sensors for industrial doors/
Sensors for industrial doors (opening and security)

WIDESCAN

Opening, presence and security detector for industrial doors



Laser Technology | ENERGY SAVING | degree of IP65 protection

Intuitive configuration with 'LZR WIDESCAN' app

7 laser curtains: door opening, surveillance of the area in front of the door, protection people on the threshold. Laser technology filters parallel traffic, ignores pedestrians and is not affected by weather conditions (rain, snow).

- Max. detection range: depending on mounting height (adjustable)
- **Mounting height: from 2 to 10 m**
- Power supply: 12-24 Vac / 12-24 Vdc
- Dimensions: 200x150x100 mm

APE - 790 / 2108
Sensor WIDESCAN
€ 2.792,00



3D Coverage - Accurately calculates the dimensions, speed and objects direction



Door protection - Accurately detects approaching or parked vehicles to prevent possible contact with the door

IXIO INDUS

Opening and security sensor for industrial automatic doors

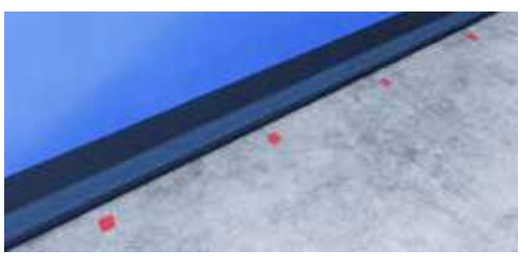
Dual technology | ENERGY SAVING | degree of IP54 protection



Dual microwave and active infrared technology (2 curtains with 24 spots): door opening and protection of people on the threshold.
Intuitive configuration with LCD screen and 4 infrared spots visible during configuration to facilitate positioning of the first curtain.

- Max. detection range: 4.5x2.5 m (opening); 3.5x0.5 m (protection)
- **Mounting height: from 2 to 4 m**
- Power supply: 12-24 Vac / 12-24 Vdc
- Dimensions: 269×57×58 mm

APE - 790 / 0250
Sensor IXIO INDUS
€ 598,00





CONTROL ACCESS DISTRIBUTION

Detectors and Sensors for industrial doors/
Industrial door sensors (opening and safety)

KABUTO

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

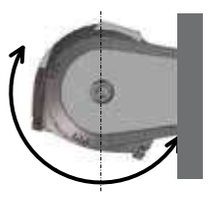


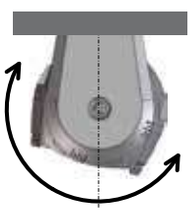
Double technology

ENERGY SAVING

degree of IP65 protection

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**.

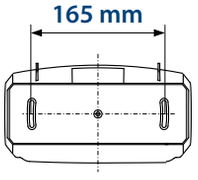
Installation from 3,5 m to 6,5



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

€ 108,20

APE - 787 / 0225



KABUTO - Radar with double technology

€ 576,80

Detectors and Sensors for industrial doors/
Sensors for industrial doors (opening and security)

HR400-IND

HR400-IND is an activation sensor for industrial automatic doors with static presence detection technology.





Infra-red technology



Two-zone infrared safety barrier in front of the door protects pedestrians from hazards caused by door movement.
The large detection area of 6m x 4m ensures timely detection of fast-approaching vehicles on all types of industrial doors, preventing damage to doors or goods.

Energy efficiency
Unidirectional detection technology reduces building energy consumption by up to 20%. The precisely adjustable detection area minimizes false door activations.







Detection technology: active infrared detection
Installation height: from 2 m to 4.7 m
Presence timer: 2 s, 60 s, 10 min, infinite
Power supply: 12-24 VAC/VDC ±10% (50/60 Hz)
Protection degree: IP54
Power consumption: 12 Vac = 2.5 VA max / 24 VAC = 2.5 VA max / 12 Vdc = 140 mA max / 24 VDC = 65 mA max

Output 1: infrared Opto relay (non-Pole)
Output 2: radar Opto relay (non-Pole)
Voltage: 48 Vdc max
Current: 300 mA max (resistive load)
Weight: 0.29 kg
Operating temperature: -20 to +60 °C
Dimensions: 265 x 61 x 37.5 mm

Accessories available for HR400-IND

HOT - HR400 - IND - 8M/BL



HR400-IND
Radar for industrial doors

€ 465,00

HOT - UTB/BL



Lower mounting bracket

€ 68,00

HOT - WC - IR/BL



Protection panel

€ 85,00



Detectors and Sensors for pedestrian doors

2 anni di garanzia per i prodotti ABEXO

Radar sensors for pedestrian doors / A96
Sensors for automatic doors / A98
Infrared safety beam sensor for sliding doors HP1 / A99

Abexo® AUTOMATION ACCESSORIES

Abexo

Detectors and Sensors for pedestrian doors/
Opening and security sensor for automatic sliding doors

ORASCAN

NEW

MADE IN BELGIUM

ORASCAN system is a safety and opening sensor kit for sliding doors, the first to combine radar and laser technologies.
The ***Artek*** inside radar system allows doors to be opened comfortably and energy-efficiently, while the '***Time of Flight***' laser technology ensures complete safety protection for the door.

MICROWAVE +LASER Technology

ENERGY SAVING

degree of IP54 protection



Press and Configure: by pressing a single button, ORASCAN detects the door dimensions and automatically positions the laser coverage, regardless of the environment or door type.



A versatile and universal solution: this sensor is suitable for all types and sizes of automatic sliding doors, including large, telescopic, airtight, fire-rated and emergency exit doors, with sensors on both sides for complete control of opening, safety and virtual buttons.



For all types of flooring and weather conditions: laser technology is completely independent of the surrounding environment. The ORASCAN system is compatible with all types of flooring and weather conditions.



Maximum safety: ORASCAN protects the primary edge and threshold of the door across its entire height, width and depth. Contact with the moving door leaves is avoided in all situations. And what about

- Power supply: 12-30 V DC ± 10%
- Power consumption: < 5W
- Mounting height: 2 to 3.5 m.
- Detection mode: motion (Radar) + presence (Laser)
- Vibrations: < 2G
- Material: PC/ASA
- Protection rating: IP54 (EN 60529)
- Temperature range: -25°C to +55°C, humidity: 0-95% non-condensing
- Technology:
  - **Microwave Doppler radar**
    - Transmitter frequency: 24.150 GHz
    - Minimum detection speed: 5 cm/s
  - **Laser Scanner - time-of-flight measurement**
    - Field of view: 180° - Angle of inclination: 0° to -7°
    - Min. object size: 5 cm at 4 m
- Bluetooth®: operating band 2402 MHz – 2480 MHz / Maximum transmitted power: 12 dBm
- Dimensions: 273 mm (W) × 71 mm (H) × 67 mm (D)
- Standards: EN-16005; DIN-18650



EN16005

DIN18650

APE - 790 / 2203



KIT ORASCAN - pair of indoor / outdoor sensors

€ 3.348,00



MOBILE APP
ORASCAN can be configured and monitored using the easy-to-use mobile app, which connects to the sensor via Bluetooth.
Intuitive platform with guided learning procedure and 3D visualisation.

Download on the App Store

ANDROID APP ON Google play

Detectors and Sensors for pedestrian doors/
Security sensor for swing doors

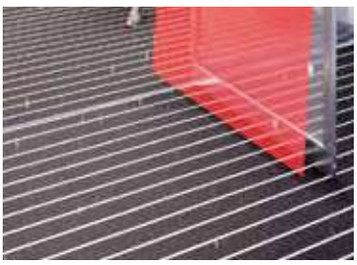
FLATSCAN SW

FLATSCAN SW uses LASER technology (time-of-flight measurement) and is ideal for swing doors. It generates 170 measurement points to provide complete protection for doors and users.
Easy to install, a single FLATSCAN SW is sufficient to cover the entire width and height of the door leaf, as well as the shear zone, regardless of its dimensions.

LASER Technology



Compact design
The FLATSCAN SW can be used on swing doors of any size.
Its compact design (8.5 cmx14.2cm) makes it easy to store.



Independent of floor and surrounding environment
Laser technology guarantees stability regardless of the type of floor (wire mesh, absorbent carpet, reflective flooring, slippery surface, etc.). It is also independent of the surrounding environment (handrails, walls, radiators, bins, etc



Cut-off zone protection
FLATSCAN SW covers the area of the door hinge to protect hands and fingers during closing.
It has 100 points, distributed over 18° in the cut-off zone.



Rapid and intuitive installation.
The size of the sensor area is defined by the movement of the hand.

The sensor can be adjusted using the **CTRL remote control** *(rif. APE-790/0103)*



- Technology: LASER scanner, time-of-flight measurement
- Maximum detection distance: 4m (diag) with 2% reflectivity (e.g.: at l=1.5m -> max. H=3.7m)
- Opening angle Door protection: 86° / Hinge area: 18°
- Angular resolution Door protection: 1.23° / Hinge area: 0.18°
- Dimensions of detected object: Door protection: 10 cm @ 4m - Hinge area: 2 cm @ 4m
- Emission characteristics: Infrared LASER Wavelength 905 nm; max. pulse output 25 W; Class 1
- Power supply / Consumption: 12-24V DC ± 15% / ≤ 2 W
- Response time Door protection: max 50 ms / Hinge area: max 90 ms
- Output: 2 electronic relays (galvanic isolation - non-polarised) - Maximum switching voltage: 42V AC/DC - Maximum switchable current: 100 mA
- LED indicators 1 two-colour LED: status detection / output
- Dimensions: 142 mm (W) × 85 mm (H) × 23 mm (D) (mounting bracket + 7 mm)
- Adjustment angle / Protection rating: +2° to +10° (without mounting bracket) / IP54
- Temperature range / Humidity: -30°C up to +60°C under voltage / 0-95% non-condensing
- Regulations: RoHS 2 2011/65/EU; MD 2006/42/EC; EMC 2014/30/EU; LVD 2014/35/EU EN12978; EN ISO 13849-1Pl "d"/ CAT2; EN 60529; IEC 60825-1; EN 60950-1; EN 61000-6-2; EN 61000-6-3; IEC 61496-1; EN 61496-3 ESPE Type 2; EN 62061 SIL 2; DIN 18650-1 Chapter 5.7.4 (testbody CA);EN 16005 Chapter 4.6.8 (testbody CA)

APE - 790 / 2022



FLATSCAN SW DX-SX pair laser detector for doors

€ 1.974,00

APE - 790 / 2010



FLATSCAN SW single SX laser detector for doors

€ 1.067,00

APE - 790 / 2011



FLATSCAN SW single DX laser detector for doors

€ 1.067,00

Accessoires

APE - 790 / 2015



GDA - bracket on glass for FLATSCAN

€ 76,20

APE - 790 / 2016.D
RIGHT COVER
APE - 790 / 2016.S
LEFT COVER



Protective COVER for FLATSCAN

€ 60,80

Detectors and Sensors for pedestrian doors/
Sensors for automatic doors

SSR-3/BL

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

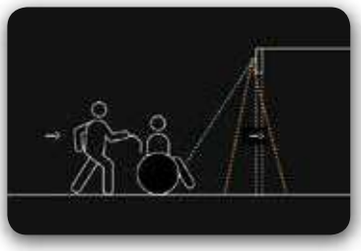


degree of IP54 protection

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.

HOT - SSR - 3/BL
SSR-3 Black color
€ 349,20

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





accessories available for SSR-3/BL

HOT - WC - IR/BL

Rain cover
€ 109,20

HOT - UTB/BL

Lower mounting bracket
€ 56,70

HOT - HA - 130

Bracket for recessed mounting
€ 58,70

HR100-CT/BL

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



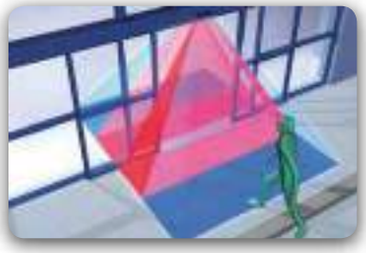
degree of IP54 protection

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.

HOT - HR100 - CT/BL
HR100CT Black color
€ 292,50

- Technology: active infrared reflection
- Supply voltage: 12-24 Vdc/Vac ± 10%
- Current consumption: 60 mA (24 VDC)
- **Installation height: adjustable 2000-3000mm**
- Temperature range: -20°C to +60°C
- Output: Open collector 7.5mA (Min) load resistor
- Degree of protection: IP54
- Dimensions: 230 x 70 x 44 mm





accessories available for HR100-CT/BL

HOT - WC - IR/BL

Rain cover
€ 109,20

HOT - UTB/BL

Lower mounting bracket
€ 56,70

HOT - HA - 121

Bracket for recessed mounting
€ 52,50

Detectors and Sensors for pedestrian doors/
Sensors for automatic doors

3H-IR14C/BL

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

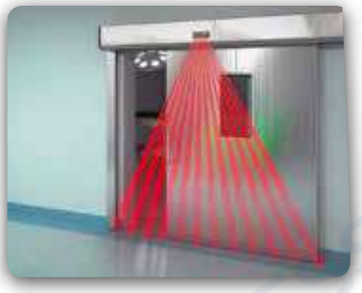
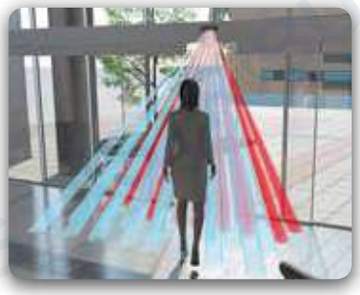
EN16005



Infrared technology, dual relay output.

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

HOT - 3H - IR14C/BL
3H-IR14C Black color
€ 252,40

accessories available for 3H-IR14C/BL

HOT - WC - IR/BL

Rain cover
€ 109,20

HOT - UTB/BL

Lower mounting bracket
€ 56,70

HOT - HA - 14

Bracket for recessed mounting
€ 68,00

HR50-UNI/BL

Flexible infrared sensor with directional sensitivity



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

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



HOT - HR50 - UNI/BL
HR50-UNI Black color
€ 178,20

accessories available for HR50-UNI/BL

HOT - WC - HR50

Rain cover
€ 84,50

HP1

Infrared safety beam sensor for sliding doors



- Operating range of 0,15 m to 10 m
- Single set of safety beam heads



- Detection Method: infrared Detection
- Detection Range: 15cm÷10m
- Sensor Dimensions Controller: 43,7mm (L), 114,2mm (A), 29mm (P)
- Sensor Head: 15mm diameter
- Power Supply: 12÷30Vca o Vcc
- Power Consumption Max: Max 1W
- Operating Temperature: -30°C, +55°C

HOT - HP1L

HP1 - Infrared sensor
€ 118,00

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







Non-contact, touch and mechanical door opening buttons

2-year warranty for ABEXO products

Non-contact buttons / *A102*
Mechanical buttons PUSH PLATES / *A105*

Non-contact, touch and mechanical door opening buttons/
Contactless door opening sensors

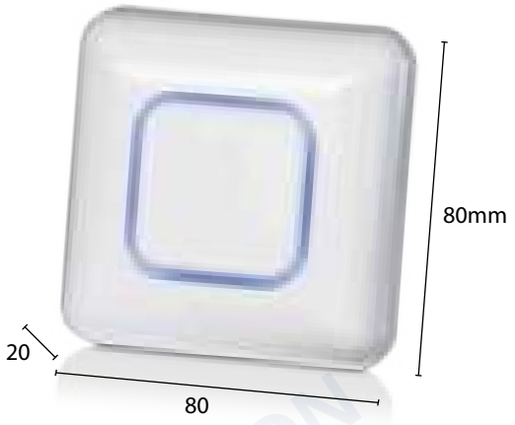
MADE IN BELGIUM

MAGIC SWITCH CHROMA

Touchless door sensor for automatic doors

MICROWAVE Technology

degree of IP65 protection

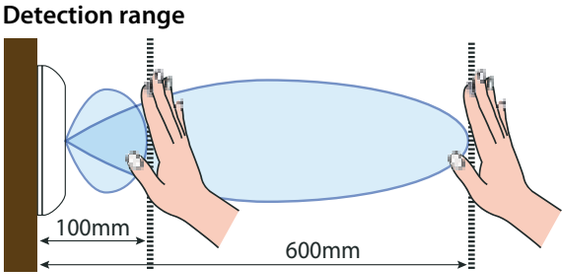


MAGIC SWITCH CHROMA is a contactless opening detector for automatic doors. A hand movement in front of the sensor opens the door automatically.
With a special treatment of the front panel, the MAGIC SWITCH CHROMA is antimicrobial.
For these reasons, it is the ideal sensor for applications where hygiene is essential: hospitals, clean rooms, pharmaceutical industries, hotels and restaurants, airports.

APE - 790 / 0110
Sensor
MAGIC SWITCH CHROMA
€ 275,80

- Technology: microwave
- Mounting: surface mounted
- Supply voltage: 12-24Vac +/-10%; 12-24Vdc +30/-10%
- Power consumption: < 1.5W
- Detection distance: +/- 100-600 mm if movement is towards the sensor at 90° (adjustable)
- Detection method: bidirectional movement
- Temperature range: from -20°C to +55°C
- Output: 1 electronic relay (galvanic isolation - non-polarised)
- **Protection degree: IP65** (if the front panel and joint are mounted on a smooth surface)
- Material: PMMA / PC. The front panel is treated with a Biomaster silver biocide tested according to ISO 22196:2011
- Emission frequency: 24.150 GHz
- Transmitted power: < 20 dBm EIRP
- Transmitted power density: < 5mW/cm²
- Target speed to create detection: min. 5Hz or +/- 3cm/s, max. 200Hz or +/- 1.2m/s
- Network frequency: 50 to 60 Hz
- Output delay time: 0.5 s (in PULSE mode)
- Recommended wiring cable: stranded cable up to 16 AWG - 1.5 mm²
- Dimensions: 80 x 80 x 20 mm

Detection range





Multicolour LED (red, blue, green) adjustable via dip-switch



Contactless and hygienic
The integrated silicone seal makes the product completely airtight, and the antimicrobial front panel limits the spread of germs, bacteria and mould.



Variety of applications
Thanks to its discreet design, high degree of protection (IP65) and contactless opening, the sensor guarantees comfort even for people with disabilities, integrates into any environment and is easy to install and keep clean.

CONTROL ACCESS DISTRIBUTION

Non-contact, touch and mechanical door opening buttons/
Non-contact door opening sensor

J-WAVE

Non-contact door opening sensor infrared

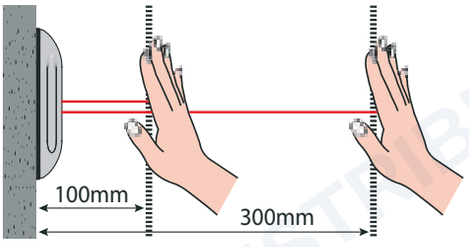
Infrared technology | degree of IP54 protection

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.



- 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

Detection range



HOT-J-WAVE
J-WAVE sensor
€ 143,20







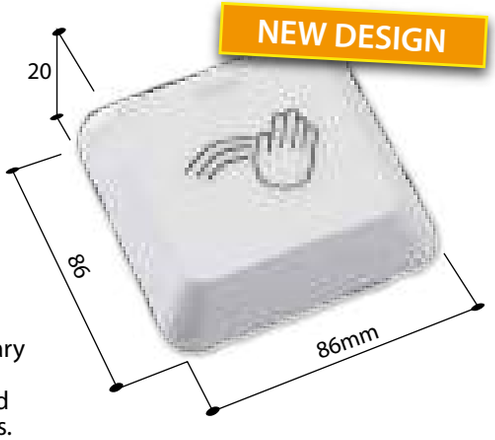
CLEARWAVE

Non-contact door opening sensor microwave

Microwave technology | degree of IP55 protection

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.

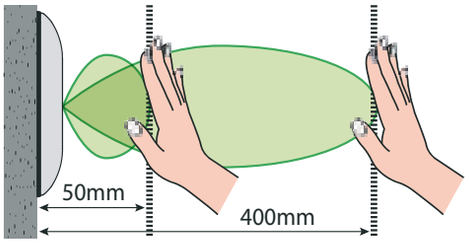
NEW DESIGN





- 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



HOT-CLEARWAVE
CLEARWAVE Sensor
€ 167,90

Non-contact, touch and mechanical door opening buttons/
Non-contact door opening buttons

AER WAVE

Infrared and wireless botton for door opening without contact

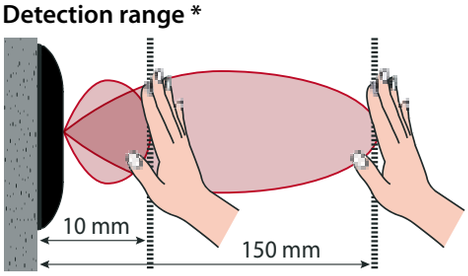
- Technology: infrared and wireless
- Target: hand and/or object*
  (* the detection distance varies with the objects's colour)
- Response time: <1 sec
- Wireless transmission distance: max 10m (with receiver WR-24)
- Dimensions: 95 (A) x 95 (L) x 20 (P) mm
- Protection degree: IP65
- Power supply: n.2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





Included in the package no.2 badges

Detection range *



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



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

HOT - WR - 24
Receiver WR-24
€ 131,80

HOT - AERWAVE
Infrared and wireless botton
€ 416,10

MTT-IR

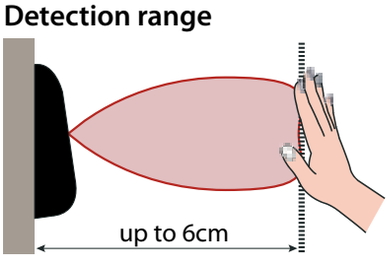
Non-contact capacitive infrared button



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



Detection range



XPR - MTTBK-IR
Non-contact button
€ 96,80

CONTROL ACCESS DISTRIBUTION

Non-contact, touch and mechanical door opening buttons/
Touch and mechanical door opening buttons

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 botton
€ 95,80

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
€ 108,20



APE - 790 / 0116H
PUSH TO OPEN - PBJH
ask the customer service

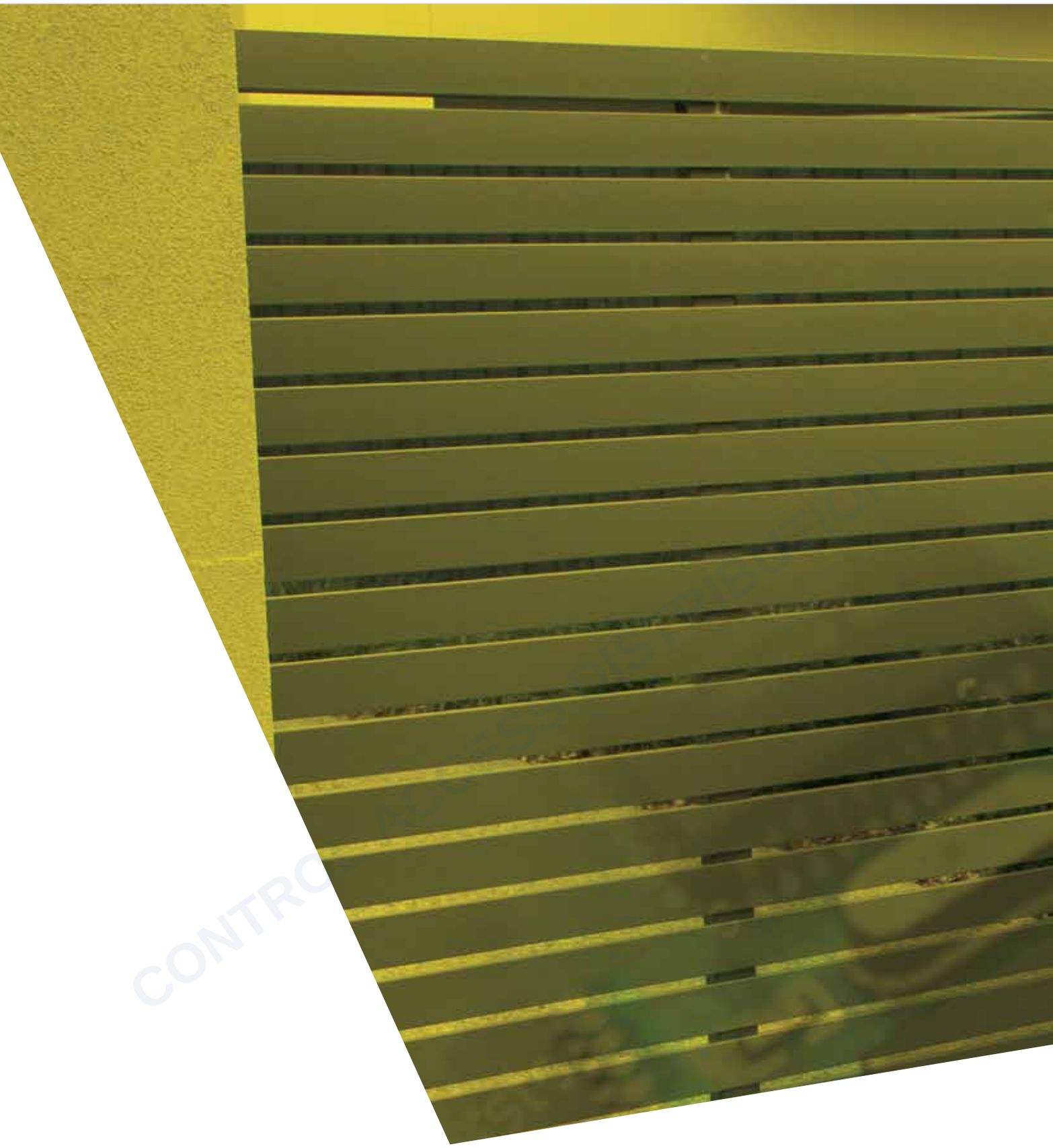


APE - 790 / 0119
PUSH TO OPEN - PBS
€ 132,90



APE - 790 / 0119H
PUSH TO OPEN - PBSH
ask the customer service

CONTROL ACCESS DISTRIBUTION



CONTROL ACCESS DISTRIBUTION



Universal control units

5-year warranty for ABEXO products

Control unit and accessories for motorized rolling shutters SH230 / A108
Central unit with remote control-controlled electric brake SH230POWER / A109
Control unit for motorized rolling shutters with integrated courtesy light SH230LUX / A110
Control unit compatible with 230V elettromechanical and hydraulic engines 051D / A112
Central control unit for sliding gates K82 / A114
Three-phase 230Vac control unit with inverter for high-speed doors TWISTER / A115
Three-phase control unit with display T400 / A116

Abexo® AUTOMATION ACCESSORIES

Universal control units/
Control unit and accessories for motorized rolling shutters

SH230



APE - 528 / 0244
Kit control unit SH230 + SH4 transmitter
€ 122,60

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

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

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

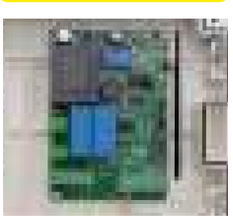
ELECTRO-LOCK AND KEY-SWITCH
More information from page A133



PHOTOCELLS
More information from page A60



APE - 528 / 0230



SH230 – control unit for shutters with box
€ 101,50

APE - 528 / 3040

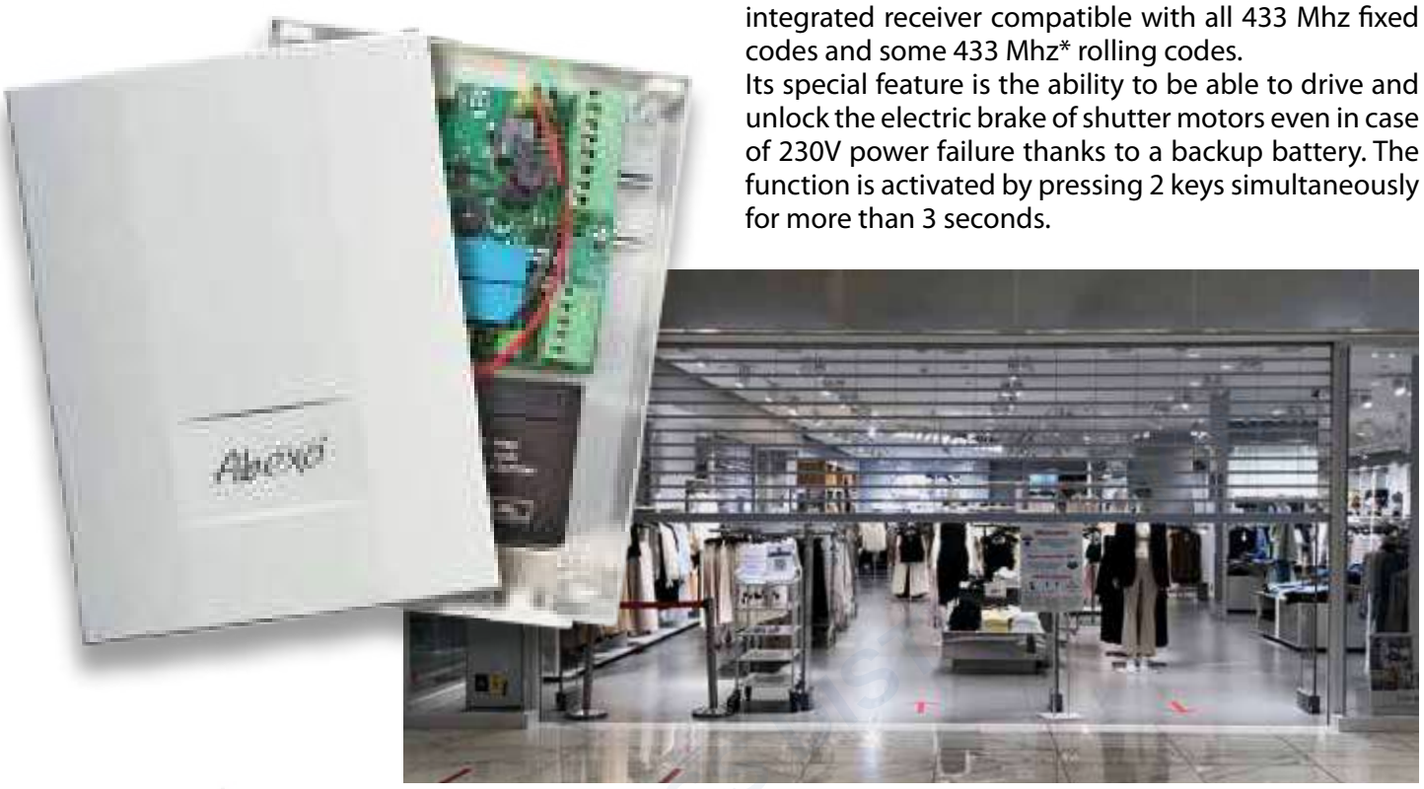


SH4 - 4-channel transmitter channels frequency 433.92 MHz for SH line
€ 32,40

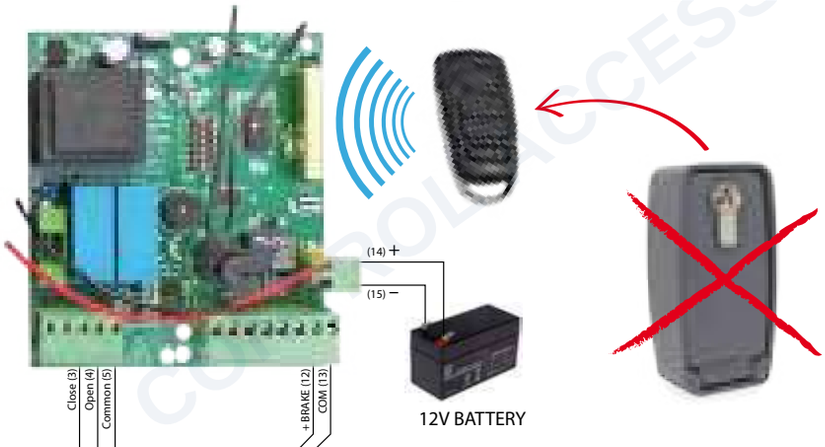
Universal control units/

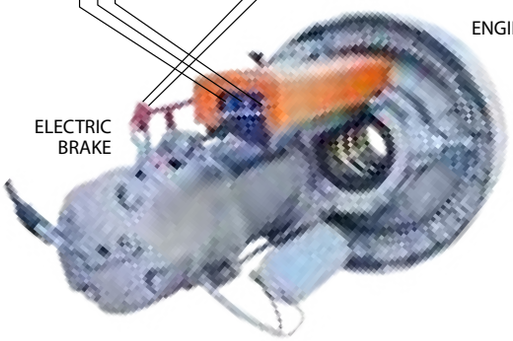
Central unit with remote control-controlled electric brake for motorized rolling shutters

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

PHOTOCELLS
More information from page A60



APE - 528 / 0225



SH230POWER - Central unit for motorized rolling shutters

€ 148,50

APE - 528 / 3040



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

€ 32,40

Universal control units/

Control unit for motorized rolling shutters with integrated courtesy light

SH230LUX

MADE IN ITALY



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

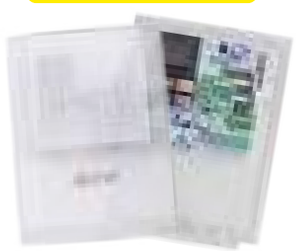


Developed on the basis of the previous control unit, SH230, this special version is equipped with an integrated courtesy light while maintaining the main features of the base version. Its semi-transparent box allow to use SH230LUX as an applique.

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

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

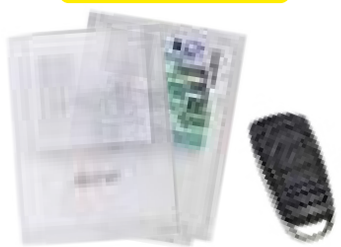
APE - 528 / 1230



SH230LUX - Control unit for motorized rolling shutters

€ 139,40

APE - 528 / 1244



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

€ 167,20

APE - 550 / 1034



ALF6BT Yellow lens flashing light, LOW TENSION (12Vdc)

NEW

€ 33,00

APE - 528 / 3040

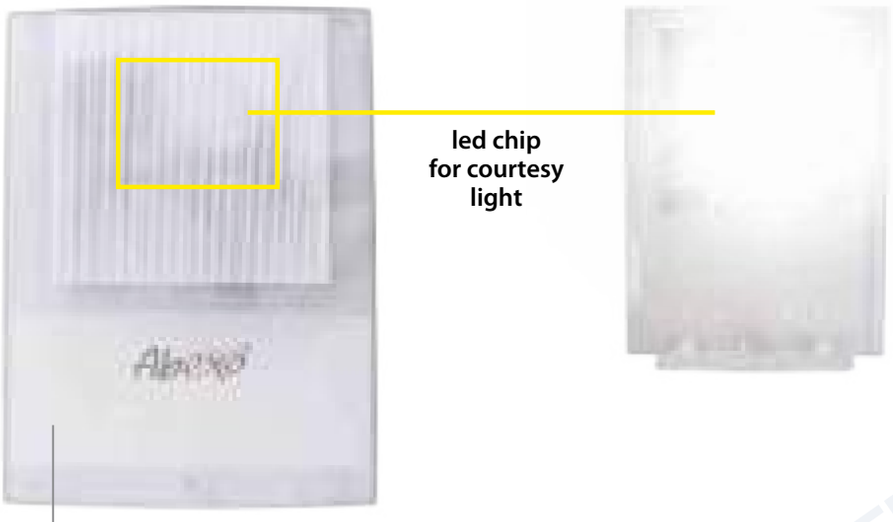
SH4 4-channel transmitter channels frequency 433.92 MHz for SH line



€ 32,40

Universal control units/

Control unit for motorized rolling shutters with integrated courtesy light



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

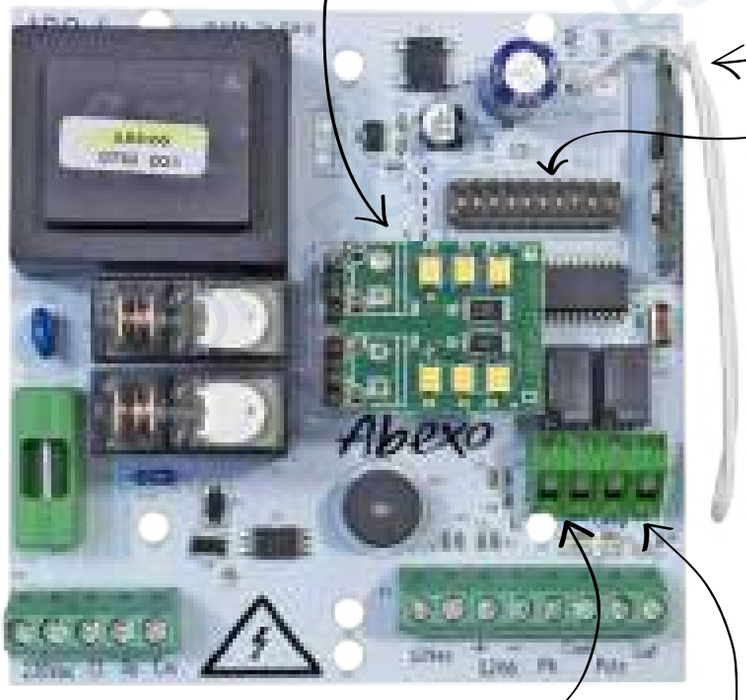


Check out the compatible transmitters

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 elettromechanical and hydraulic engines

051D

MADE IN ITALY

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 differentely 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 throgh the solution of every problem, showing the single error codes on the display one at a time.

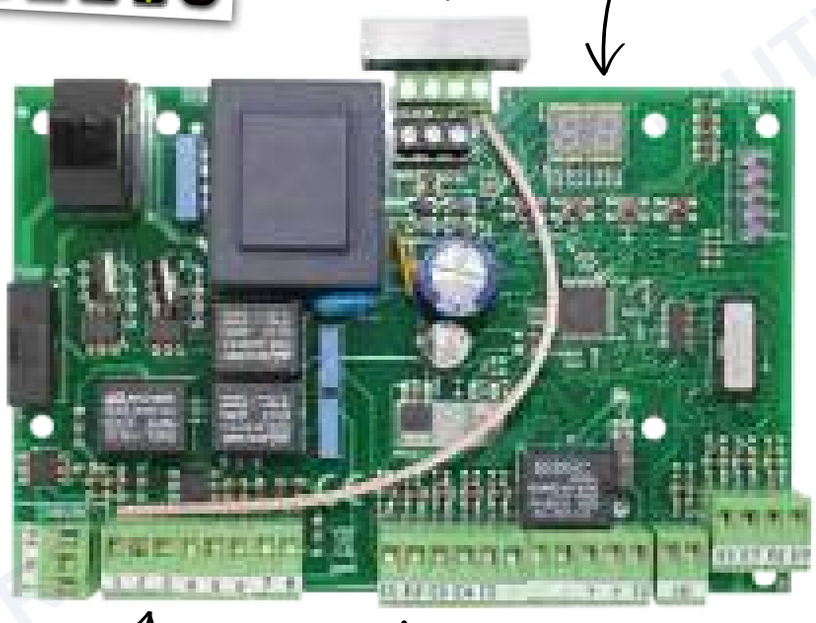
433 MHZ RECEIVER

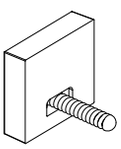
Compatible with some 433,92 MHz transmitters



Display for easy setting

4 operating modes





Limit switch

Electric lock



#INDEPENDENT REGULATION OF THE MOTORS

Diagnostic: wiring of motors

MOTOR A			DESCRIPTION
A1	14	sec	WORKING TIME
A2	0	sec	SLOWDOWN TIME
A3	0,8	sec	START UP TIME
A4	06	sec	DELAY AT CLOSING
A5	08	%	STANDARD MOTOR FORCE
A6	10	%	SLOWDOWN MOTOR FORCE
A7	n	%	STANDARD OBSTACLE DETECTION THRESHOLD
A8	n	%	SLOWDOWN OBSTACLE DETECTION THRESHOLD

MOTOR B			DESCRIPTION
b1	14	sec	WORKING TIME
b2	0	sec	SLOWDOWN TIME
b3	0,8	sec	START UP TIME
b4	03	sec	DELAY AT CLOSING
b5	08	%	STANDARD MOTOR FORCE
b6	10	%	SLOWDOWN MOTOR FORCE
b7	n	%	STANDARD OBSTACLE DETECTION THRESHOLD
b8	n	%	SLOWDOWN OBSTACLE DETECTION THRESHOLD

#ADJUSTABLE INPUTS

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

#INPUT DIAGNOSTIC

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

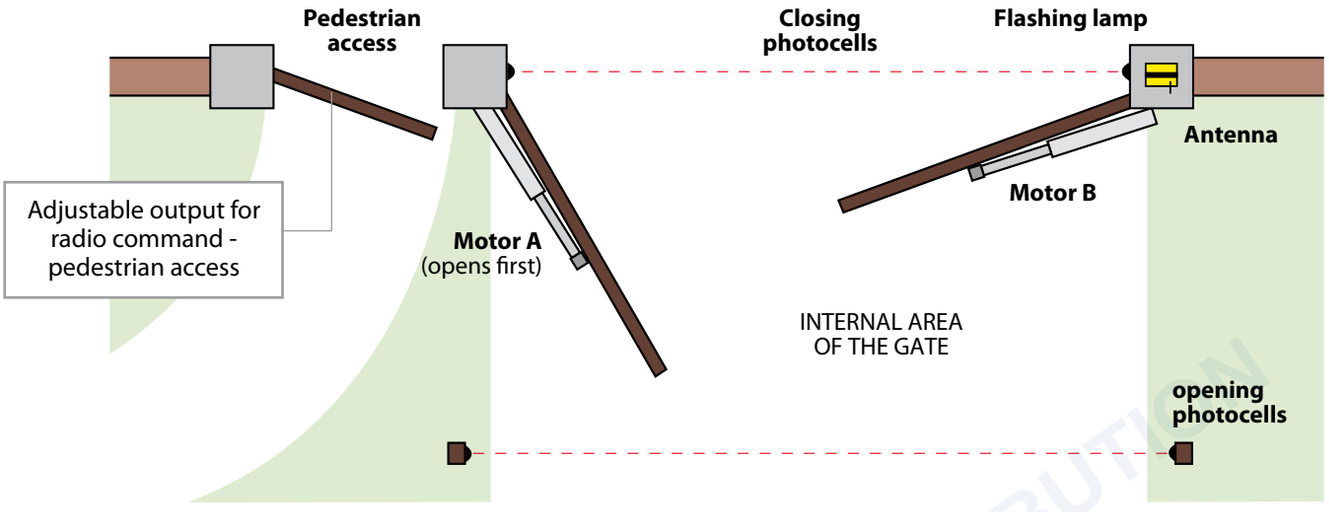
#UNIVERSAL: inputs can be wired in positive common (+) and negative common (-). It can be set through a parameter from the menu

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

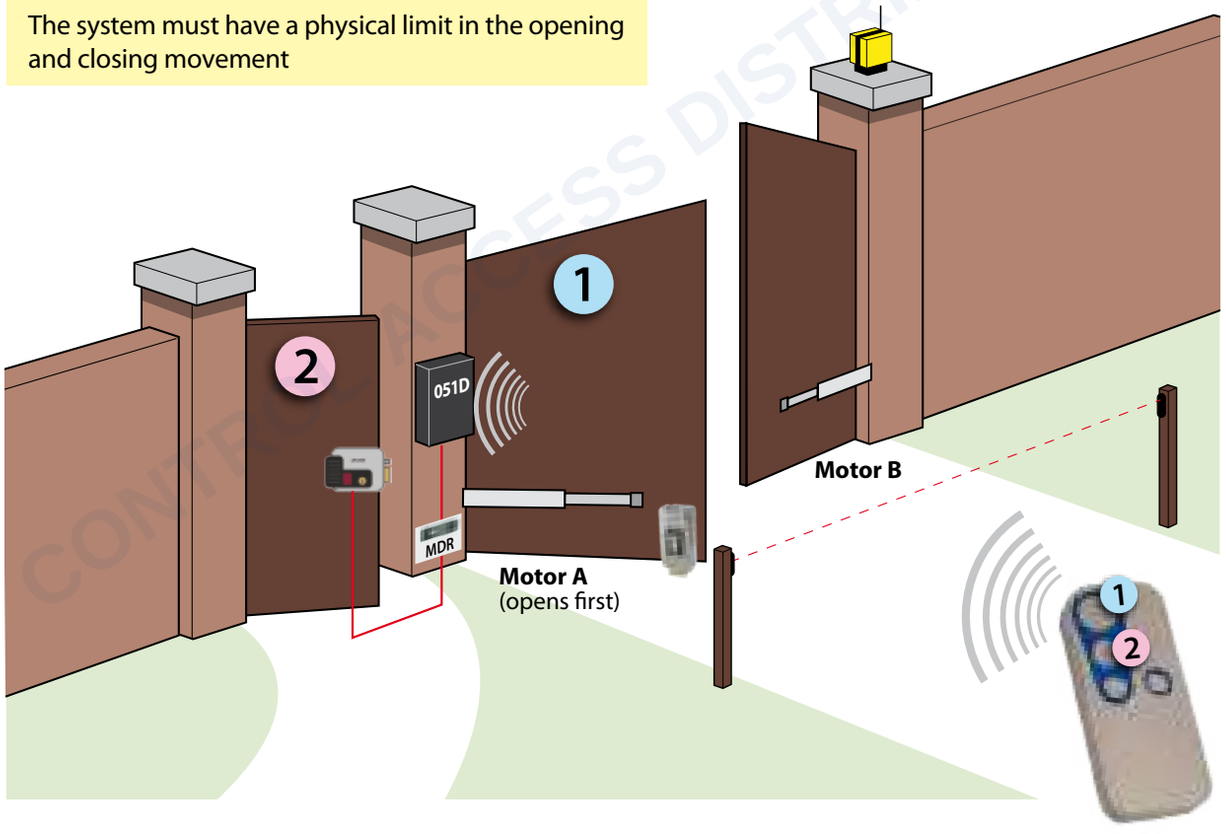
Universal control units/

Control unit compatible with 230V elettromechanical and hydraulic engines

TYPICAL SWING GATE INSTALLATION



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



CONTROL ACCESS DISTRIBUTION

APE - 570 / 0510	APE - 570 / 0511	APE - 570 / 0022	APE - 567 / 0010
			
051D universal control unit with receiver	**051D** universal control unit without receiver	**MDR** optional board for additional outputs 46x17 mm	**PBOX** plastic box for control units 225x285x92 mm
€ 179,50	**€ 162,20**	**€ 20,00**	**€ 30,00**

Universal control units/
Central control unit for sliding gates

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.



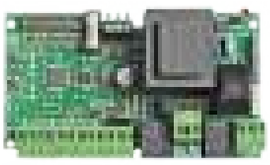
Main functions

- 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

APE - 570 / 0740



K82
Central control unit for sliding gates

€ 159,70

APE - 570 / 0022



MDR
Optional board for additional outputs 4.6x1.7cm

€ 20,00

APE - 570 / 0023



K82 RR
433.92 MHz radio module for K82 control unit

€ 20,60

Universal control units/

Three-phase 230Vac control unit with inverter for high-speed doors

TWISTER

NEW

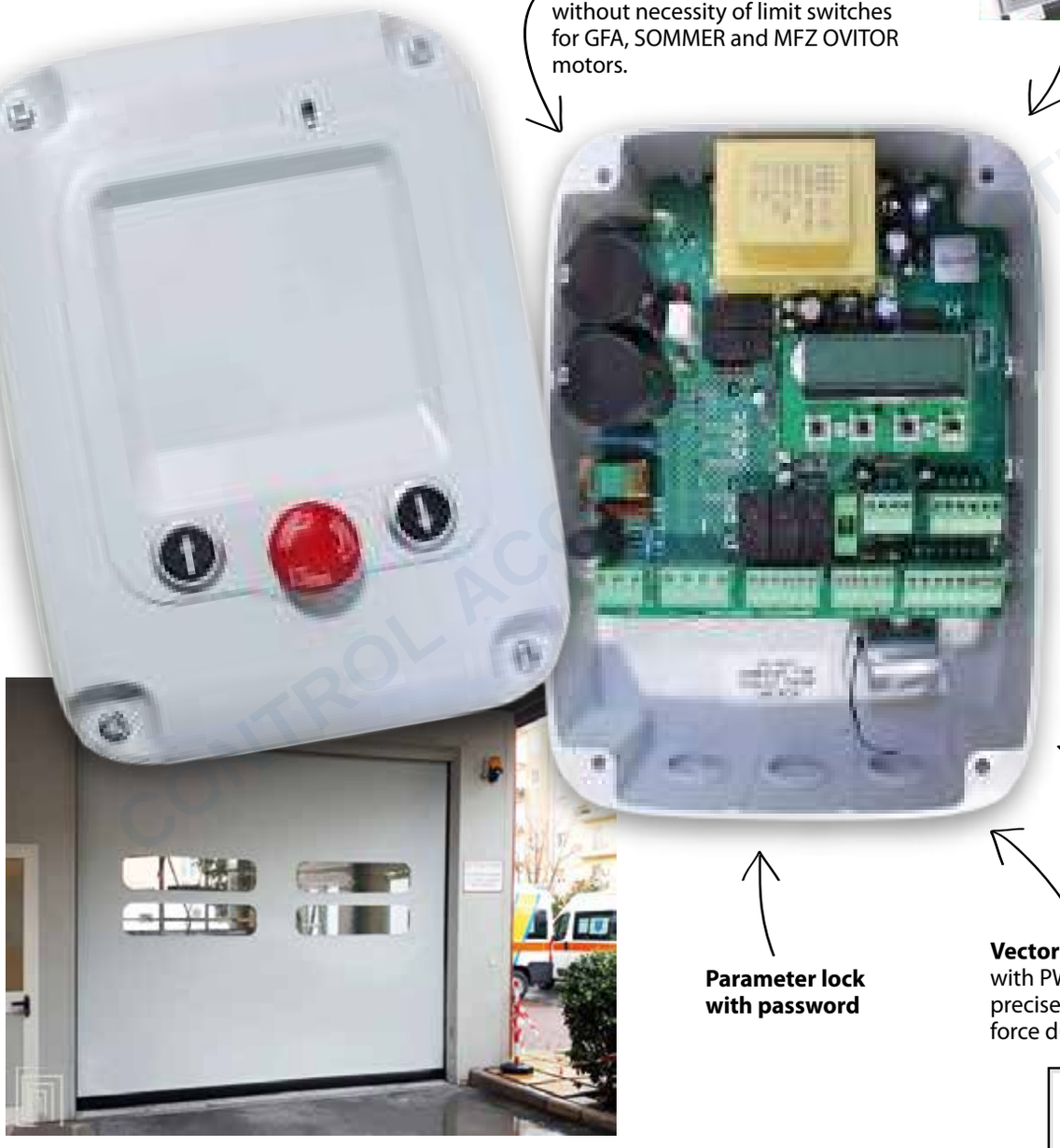
MADE IN ITALY

Abexo

degree of IP54 protection

degree of IP65 protection

The TWISTER control unit is designed to be part of an automation system for high-speed, overhead, up-and-over or sliding doors with a 230Vac three-phase motor with independent speed and force control from a 230V single-phase power supply.
The control unit is equipped with an LCD screen and a keypad that allows parameters to be adjusted easily and effectively.
Its powerful hardware and versatile settings allow it to adapt universally to any installation.



Encoder control
Allows complete control of the operation with absolute encoder without necessity of limit switches for GFA, SOMMER and MFZ OVITOR motors.

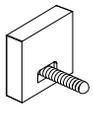


Control consumption

The connection for the radio card allows the activation of the remote control

Soft stop in opening and closing, configurable ramps

Limit switch control



nr.3 configurable relays

Parameter lock with password

Vector motor control
with PWM modulation: precise control of speed and force during manoeuvres

Technical Specifications:
- Power supply: 230Vac
- Maximum motor power managed: 2HP / 1.5KW
- Accessory power supplies: 24VAC 12W / 15VDC 3.5W
- Inputs: 8 opto-isolators + 2 analogue
- Plug-in cards: radio module
- External power supply protection: resettable fuse
- Protection degree: IP54 (IP65 with cable glands)
- Display: LCD - 2x16 characters - backlit
- Dimensions: 196x280x90 mm
- Operating temperature: -20°C, +70°C

APE - 559 / 0500



TWISTER control unite including box

€ 988,80

Universal control units/

Three-phase control unit with display

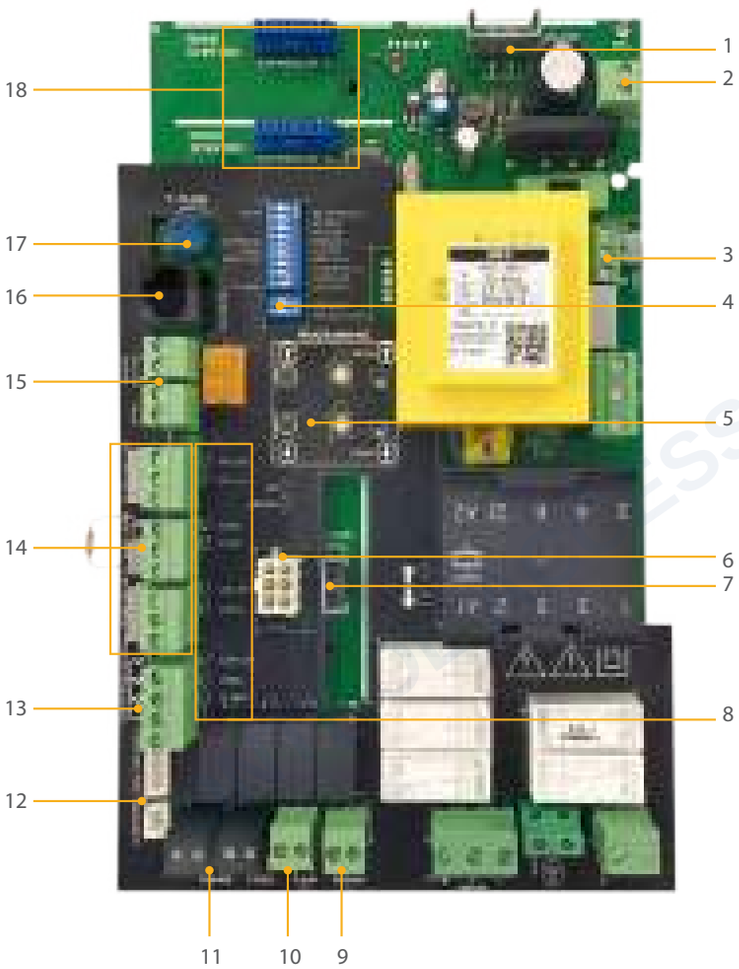
T400

NEW

MADE IN ITALY

T400 three-phase control unit is an advanced control system for the automation of large industrial gates and doors. It manages motors at both 230V and 400V, providing flexibility and adaptability to different power requirements.
Programming is intuitive with integrated buttons, while advanced connectivity includes a connector for digital limit switches.
Precise adjustment of operating modes and integrated diagnostics simplify use and maintenance. Multiple outputs for accessories and customisable software complete the features of this robust and adaptable control unit, compatible with all three-phase motors.





1. Plug-in receiver connector (STICK/RACK)
2. 24 Vac connection
3. 230/400V selector
4. 9-position option selector
5. Programming buttons on panel
6. **Encoder: compatible with ELEKTROMATEN and KOSTAL**
7. Vehicle detector connector
8. LED indicator lights for active inputs/outputs
9. 230V motor brake
10. 230V flashing light
11. Excluded function: door open/door closed
12. Buttons on cover
13. 3-button input: OPEN - LOCK - CLOSE
14. 6 inputs withconfigurable
15. 24V DC connection
16. Connector for function and analysis programmer (VERSUSProg)
17. Auto close time regulator
18. 2 connectors for function expansion card



TECHNICAL SPECIFICATIONS
- Three-phase control unit for industrial doors
- Power supply/max. motor power from 230V/1.2Kw and 400V/2.2Kw
- Active input/output indicator
- LED ERROR status indicator
- Detection of operating errors
- Independent 24 Vac and 24 Vdc outputs, max. 700 mA
- "Easy to program": programming buttons on the control panel



Removable V cable glands
To facilitate installation/replacement of pre-wired accessories

Universal control units/
Three-phase control unit with display

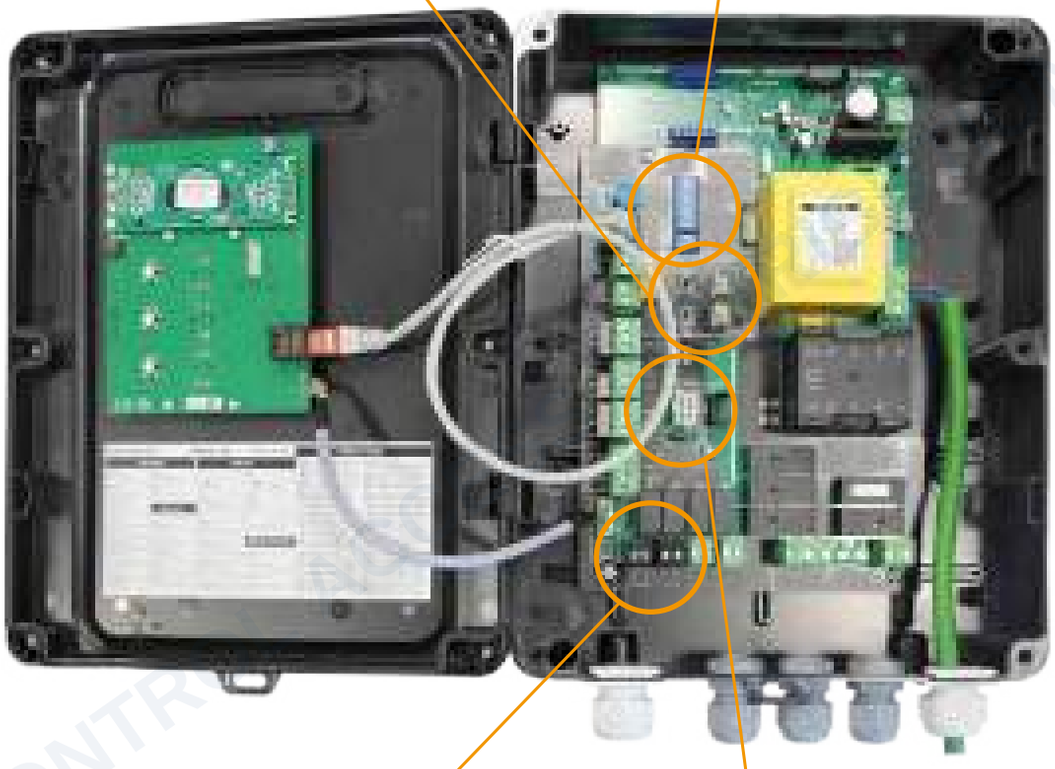
The T400 three-phase control unit satisfies the requirements that characterise the range, with functions and finishes that can be adapted to customer needs.

Easy to programme
Programming buttons on the control unit

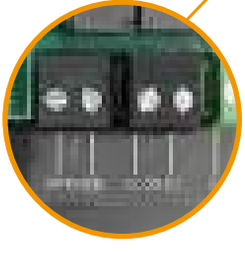


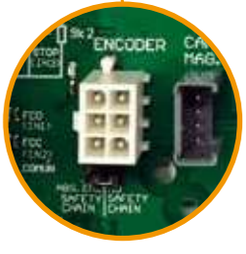


Easy to programme
Simple and intuitive adjustment of operating modes



Status function
Open door and closed signal





Special connector
compatible with **ELEKTROMATEN and KOSTAL**
digital limit switches

APE - 567 / 0020



T400 - three-phase control unit with display

€ 360,00

JCM - 1003214



compatible with edges **ACTIVE-R3** see page A57

RB3 T868 - transmitter 3G for safety edges

€ 97,70

JCM - 1006115



RSEC3NN - 3G receiver without security band

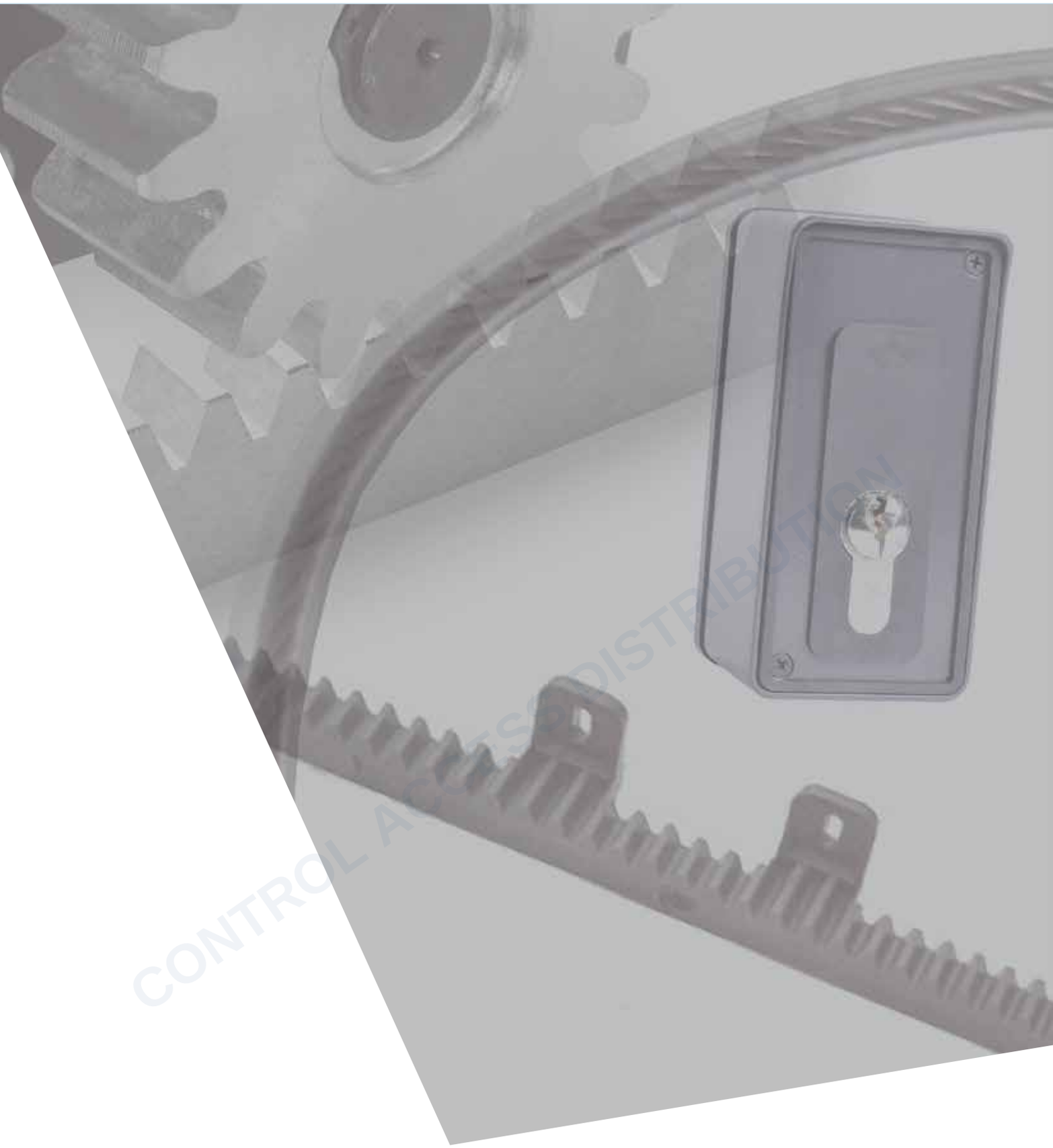
€ 68,00

JCM - 1008723



TL-CARD-V - traffic light control card

€ 70,00



CONTROL ACCESS DISTRIBUTION

Manual Barrier and containers

5-year warranty for ABEXO products

MOVEO / *A74*

Manual barrier MOVEO / *A120*
Passage restriction columns and accessories POLY / *A122*
Series of stainless steel cases for electronic control units BOXX / *A124*
Plastic box for control units PBOX / *A125*

CONTROL ACCESS DISTRIBUTION

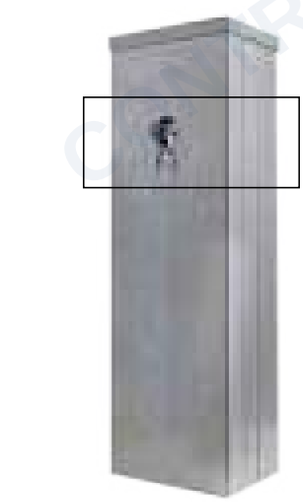
Abexo® AUTOMATION ACCESSORIES

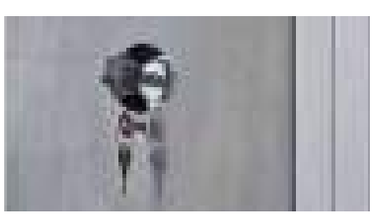
Manual barrier and containers/
Manual barrier

MOVEO



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

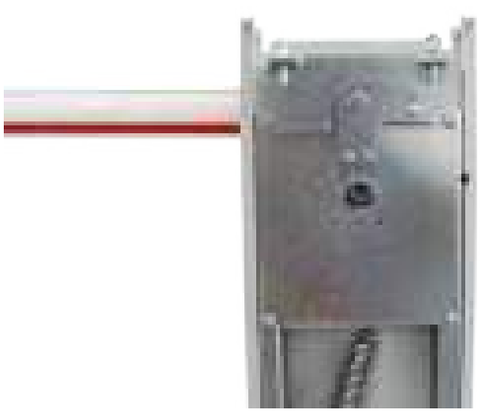




Thanks to the **internal linkage mechanism**, the movement of the rod is always balanced with the possibility of locking in the closed or fully open position.

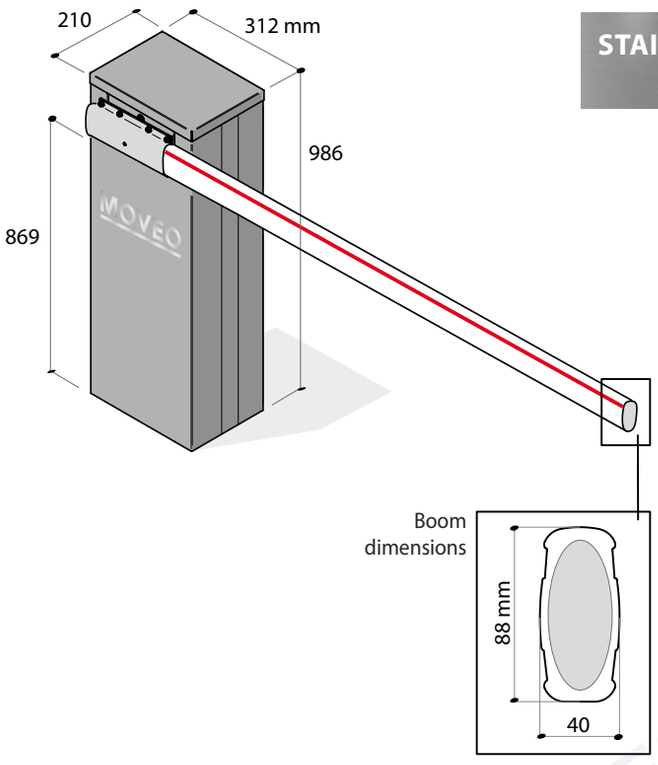






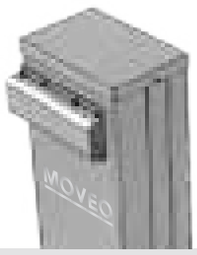


Manual barrier and containers/
Manual barrier



STAINLESS STEEL COVER

APE - 150 / 6010



MOVEO
The kit includes:
- **Moveo main body**
- **boom support**

€ 1.169,40

APE - 150 / 3003

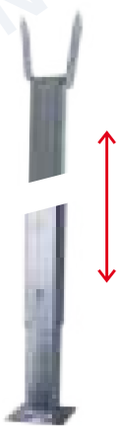
Mandatory accessory



SBARRA-PF
Stainless steel plate foundation

€ 38,10

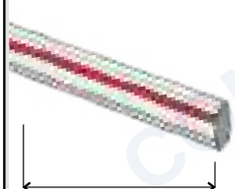
APE - 150 / 3004



Adjustable tip support

€ 66,80

BOOM



confirm exact lenght when ordering

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.**
whole boom supplied	whole boom supplied	whole boom supplied	2 pieces boom supplied (2.14 + 3.16 m) with connecting joint	2 pieces boom supplied (2.50 + 3.50 m) with connecting joint
€ 222,80	**€ 296,30**	**€ 334,20**	**€ 393,40**	**€ 445,60**

ACCESSORIES

APE - 150 / 3005



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

€ 65,90

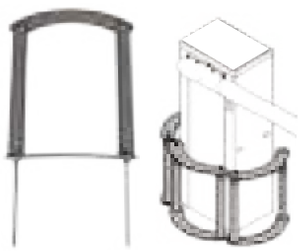
APE - 150 / 3052



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

€ 329,60

APE - 150 / 8038



UNI-SAVE
Universal protection module

see page A131

€ 154,50

CONTROL ACCESS DISTRIBUTION

Manual barrier and containers/
Passage restriction columns and accessories



POLY-MOCK

POLY fixed column (without automation)

Street furniture object useful to border zones.

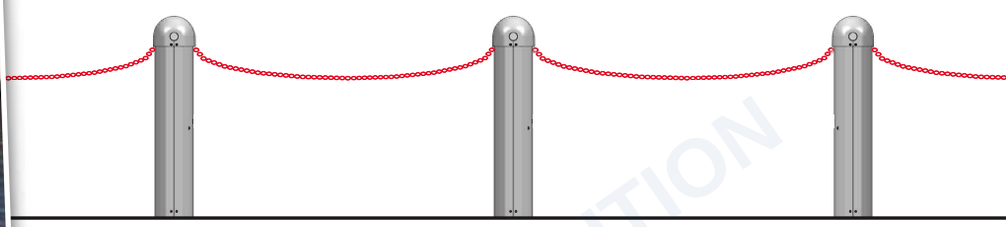
This item can be combined with the POLY automatic chain barrier and the SERVICE PLUS column.

APE - 150 / 8036

fixed column POLY-MOCK



€ 793,10



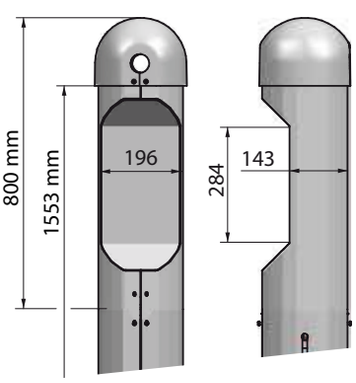
POLY-PLUS

Upper module for POLY



- Module to be installed on top of the **POLY-MOCK**, designated for housing accessories (e.g. intercom) or controls (e.g. keypads).
- Neutral fixing plate for floor (included)
- Module height: 800 mm.





APE - 150 / 8010

module POLY-PLUS



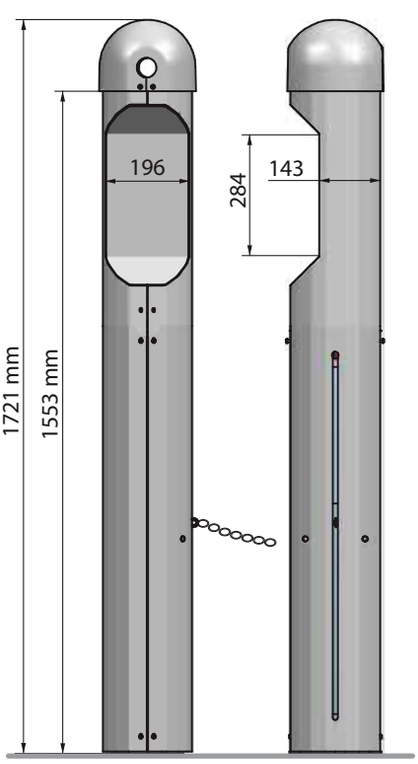
€ 821,90

SERVICE PLUS

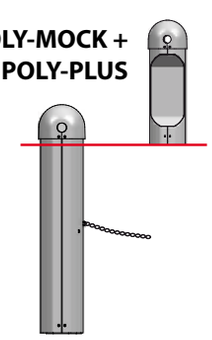
The result of combining the **POLY-PLUS module with the fixed POLY-MOCK column, the SERVICE-PLUS** represents an integrated automation solution, exclusive in this field.

It allows the application of command and control accessories (entry-phones, cameras, card readers and codes, etc..) without the need for alternative housings and non-integrated.





POLY-MOCK + POLY-PLUS



APE - 150 / 8050

SERVICE PLUS

€ 1.276,20

CONTROL ACCESS DISTRIBUTION

Poly

MADE IN ITALY

Abexo

AUTOMATIC CHAIN BARRIER



The POLY barrier is a versatile and secure system for controlling access to private or business areas. It consists of one or two columns (depending on the model) and a chain, which is moved by a gearmotor and is raised or lowered to allow or block the access.

> **COURTESY LIGHT** to illuminate the chain
> **INTEGRATED FLASHING LIGHT** during chain movement
> **MOTOR WITH 24VDC ENCODER** for immediate stop in obstruction detection case



Robust and durable: made of high-quality materials to ensure a long service life.

Safe: equipped with safety systems to prevent accidents, such as presence sensors and limit switches.

Versatile: available in different configurations to adapt to different space and usage requirements.

Easy to install: the system is designed for easy installation and maintenance.

Customisable: it is possible to add accessories such as flashing lights, photocells and remote controls to customise the system.







https://bit.ly/3HKYoJ3

download POLY catalogue

CLOSES PASSAGES UP TO 16m.

Manual barrier and containers/
Series of stainless steel cases for electronic control units

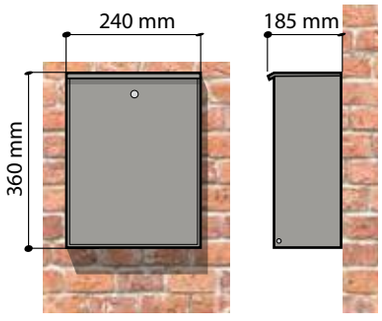
BOXX

MADE IN ITALY

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



=

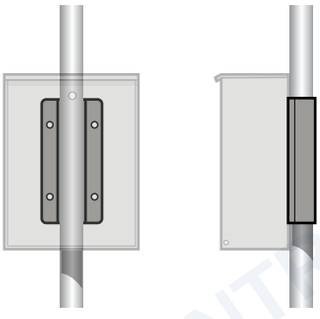


BOXX
Wall-mounted case

APE - 150 / 5020
BOXX
€ 209,10

Techincal 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
€ 22,70

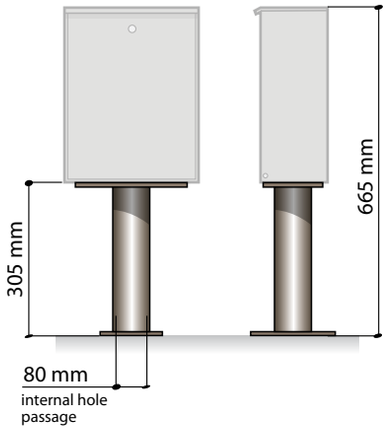
+



BOXX
Wall-mounted case

APE - 150 / 5020
BOXX
€ 209,10

FLOOR APPLICATION



=



BOXX-RISE
Base support for BOXX

APE - 150 / 5025
BOXX-RISE
€ 92,70

+



BOXX
Wall-mounted case

APE - 150 / 5020
BOXX
€ 209,10

CONTROL ACCESS DISTRIBUTION

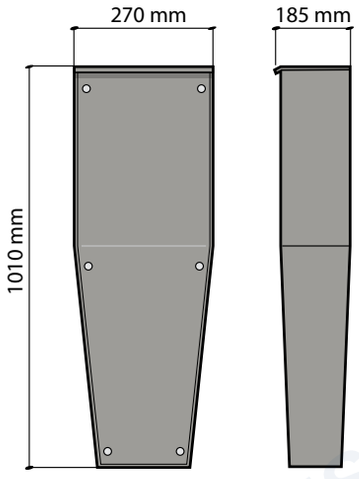
Manual barrier and containers/
Series of stainless steel cases for electronic control units

BOXX-XL

MADE IN ITALY

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





Techincal characteristics:
- Structure material: stainless steel

APE - 150 / 5045
BOXX-XL
€ 350,00

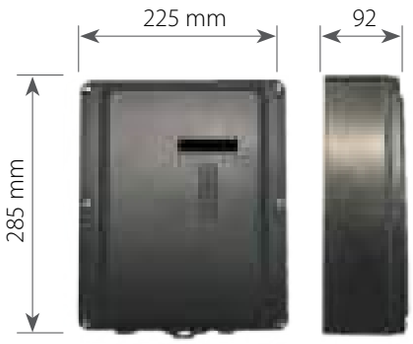
PBOX

NEW

degree of IP65 protection

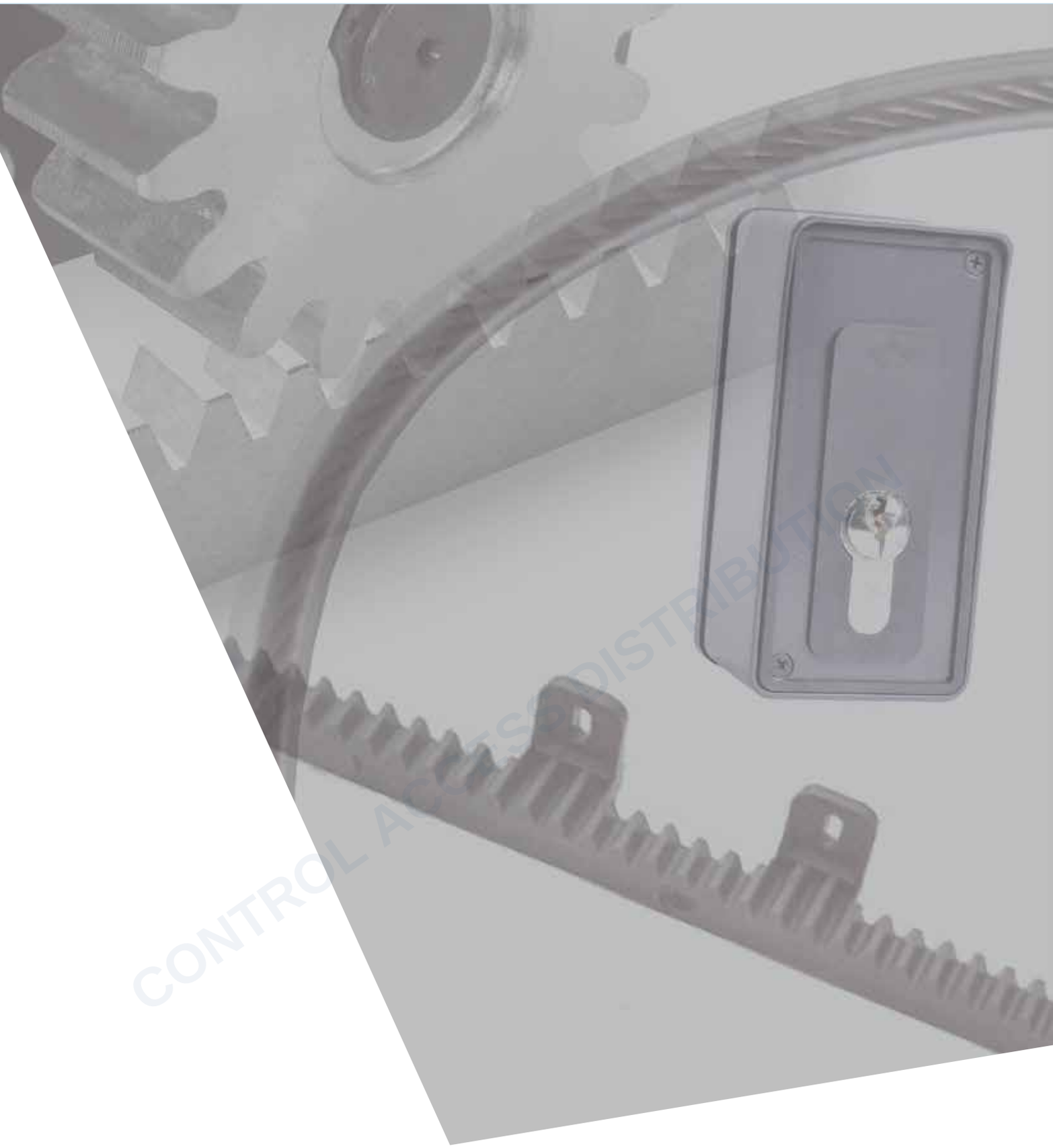
Universal box.
Large box, in plastic material, for control units housing.
Including slot for padlock.





APE - 567 / 0010
PBOX
€ 30,00

CONTROL ACCESS DISTRIBUTION



CONTROL ACCESS DISTRIBUTION

Devices and mechanical accessories



Universal aluminum columns DORICA / *A128*
Racks and attachments / *A130*
Protection module UNI-SAVE / *A131*
"Parachute" brakes for sloping sliding gates CONTROLGIR / *A132*
Security Box / *A133*
Key-Switch / *A134*
Batteries / *A135*
Power magnets / *A136*
Electric lock and Fall prevention cable / *A137*
Power supply / *A138*

CONTROL ACCESS DISTRIBUTION

Abexo® AUTOMATION ACCESSORIES

Devices and mechanical accessories/
Universal aluminum columns

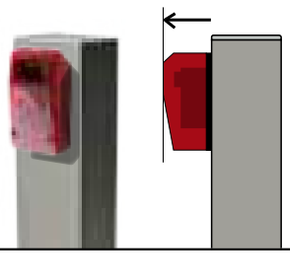
DORICA

NEW

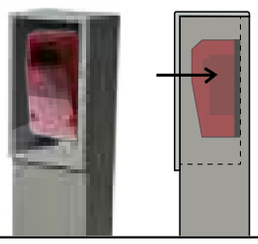
MADE IN ITALY

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

EXTERNAL ENCUMBRANCE
On the DORICA 50, DORICA 100 and DORICA H120 columns, the photocells (or other devices) are mounted outside the column.



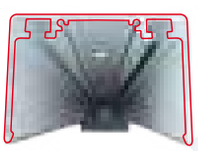
NO EXTERNAL ENCUMBRANCE
On the DORICA 50 CAP column the housing for the photocell is located inside the column, so there's no external protrusion.



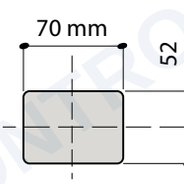
EASY TO WIRE
The body column's, being composed of 2 sliding proles, can be opened to facilitate the wiring's cables

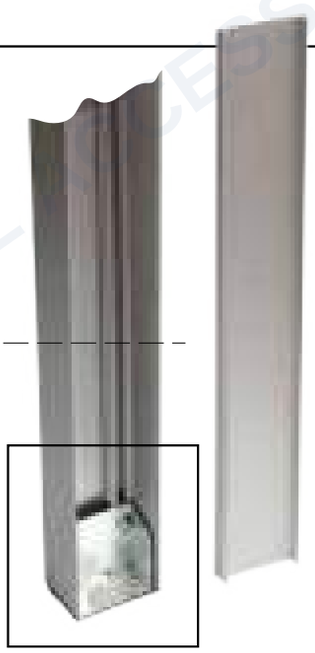


RESISTANCE
As the profile shape is extruded in aluminium, the structure of these columns is very resistant



PFZ
FIXING BRACKET ZERO OVERALL DIMENSIONS

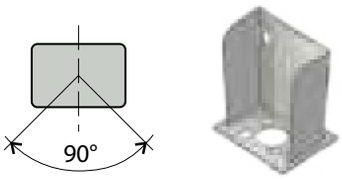




The PFZ is a fixing base without overall dimensions. Necessary if you want to install the column touching the wall. Accessory to replace the 115x85 mm base as standard on DORICA 50, DORICA 50 CAP and DORICA 100



ORIENTABLE
Using the PFZ base, the column can be oriented as desired



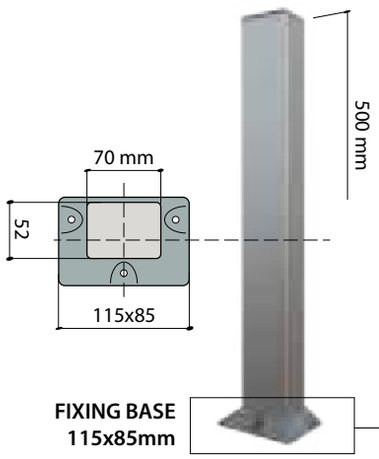
APE - 550 / 5084
PFZ - Non-overhanging fixing base for Dorica
€ 17,00

CONTROL ACCESS DISTRIBUTION

Devices and mechanical accessories/
Universal aluminum columns

DORICA 50

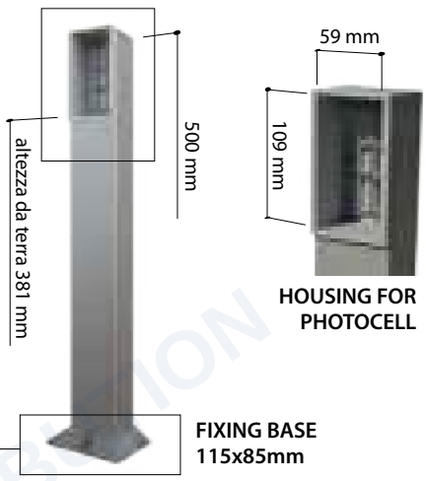
UNIVERSAL aluminium column
52x70x500h mm
WITH EXTERNAL FIXING BASE IN TECHNOPOLYMER



APE - 550 / 5061
DORICA 50
Column h=500 mm with fixing base in technopolymer
€ 56,70

DORICA 50 CAP

UNIVERSAL aluminium column
52x70x500h mm WITH HOUSING FOR PHOTOCELL
AND EXTERNAL FIXING BASE IN TECHNOPOLYMER



APE - 550 / 5041
DORICA 50 CAP
Column h=500 mm with housing and fixing base in technopolymer
€ 57,70

APE - 550 / 5086

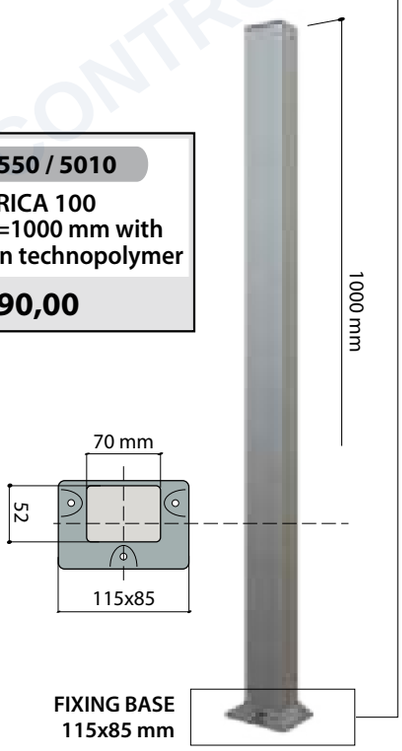


DORICA PFP
foundation plate
standard 3 tie rods
for BASE IN
TECHNOPOLYMER
€ 12,50

DORICA 100

UNIVERSAL aluminium column
52x70x1000h mm WITH
EXTERNAL FIXING BASE IN TECHNOPOLYMER

APE - 550 / 5010
DORICA 100
Column h=1000 mm with fixing base in technopolymer
€ 90,00



DORICA H120

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

APE - 550 / 5012
DORICA H120 - Column
h=1175 mm with metal fixing base
€ 115,00



HIGH STABILITY
due to the 300 mm high **internal iron core** and the large 150x150 mm metal fixing base



Ideal for use with keypads

APE - 550 / 5082



DORICA PFS
foundation plate
150x150 mm
with tie rods
€ 24,00

CONTROL ACCESS DISTRIBUTION

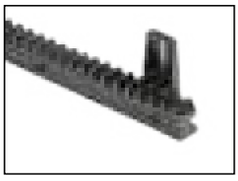
Devices and mechanical accessories/
Tecnopolymer racks

MADE IN ITALY

CRP700

Tecnopolymer rack max 700 Kg (a) for sliding gates





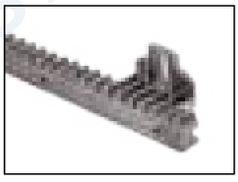
APE - 511 / 0700
CRP700
rack 700kg
€ 19,50/mt

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

CRP1200

Tecnopolymer rack max 1200 Kg (f) for sliding gates



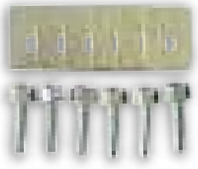


APE - 511 / 1200
CRP1200
rack 1200kg
€ 23,80/mt

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

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
€ 2,00

CONTROL ACCESS DISTRIBUTION

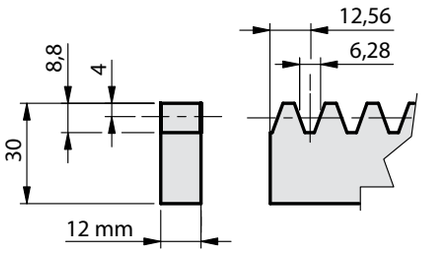
Devices and mechanical accessories/
Steel rack

CRM3012

Steel rack for sliding gates







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

APE - 555 / 1020
CRM3012 galvanized steel rack (pack 4 mt)
€ 26,00/mt

CONTROL ACCESS DISTRIBUTION

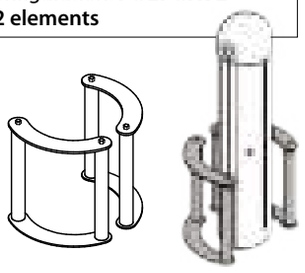


UNI-SAVE

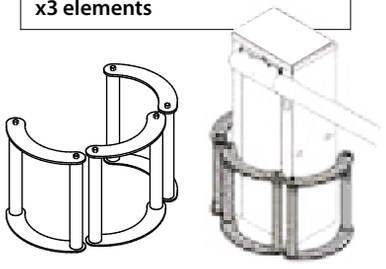
Universal protection module

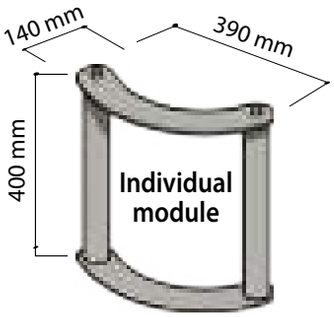


configuration: **POLY-SAVE x2 elements**



configuration: **BARRIER-SAVE x3 elements**





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

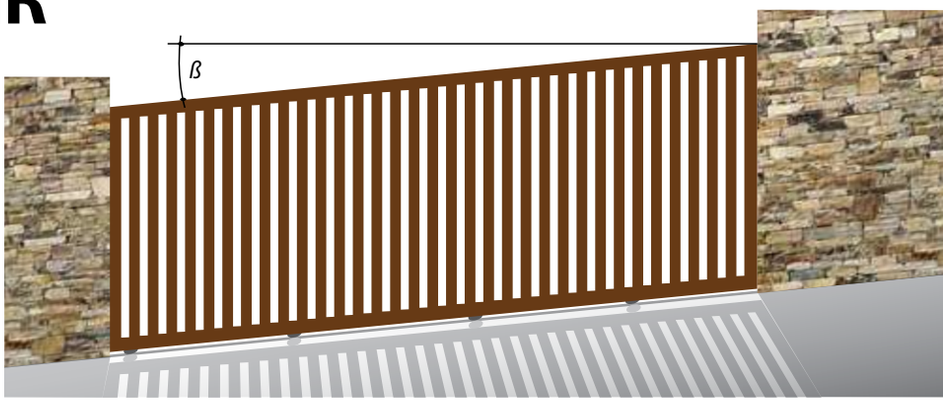
It is a universal module for the opening systems protection and more. It is composed of a modular metal structure that can be adapted to different uses, for example to protect the 'POLY' chain lifter (2 elements), on the 'MOVEO' manual barrier (3 elements) or for sliding gates gear motors.

APE - 150 / 8038
Individual UNI-SAVE module
€ 154,50

Devices and mechanical accessories/
"Parachute" brakes for sloping sliding gates

CONTROLGIR



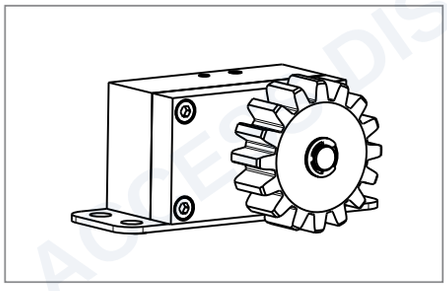


The CONTROLGIR line is indispensable for standardization in the presence of sliding gates on a slope (it is necessary for there to be a rack). In case of unlocking of the automation gear motor, the internal hydraulic circuit (adjustable) has the function of "parachute," that is, to regulate the downward 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)





APE - 147 / 4004
Parachute break 3,2° - 7Nm
€ 399,60

TECHNICAL DATA

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

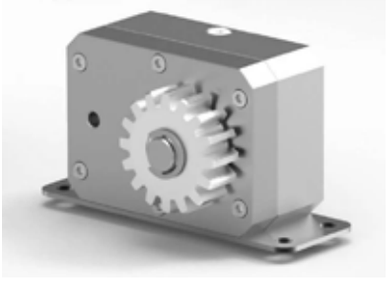
Formula:
M [Nm] = P x sinß x 0,032
P = gate weight in Newtons (9.8N=1Kg)
sinß = sine of the tilt angle (ß= tilt in degrees)
P = 9.8 x 400kg = 3920 Newton
M = 3920 Newton x sin 3.2 x 0.032 = 7 Nm

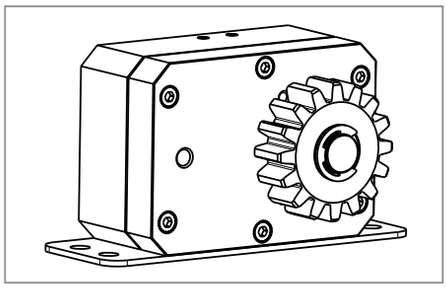
Send us the following technical data of your installation:
- **Gate weight**
- **ß= angle of inclination/slope**
- **Module of the rack pitch**

We will take care of the calculation!

CONTROLGIR-30

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





APE - 147 / 4009
Parachute break 13,9° - 30Nm
€ 601,50

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 x sinß x 0,032
P = gate weight in Newtons (9.8N=1Kg)
sinß = sine of the tilt angle (ß= tilt in degrees)
P = 9.8 x 400kg = 3920 Newton
M = 3920 Newton x sin 13.9 x 0.032 = 30 Nm

CONTROL ACCESS DISTRIBUTION

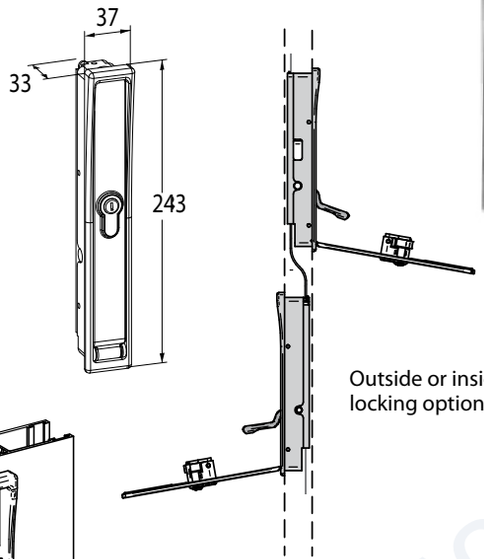
Devices and mechanical accessories/
Security box

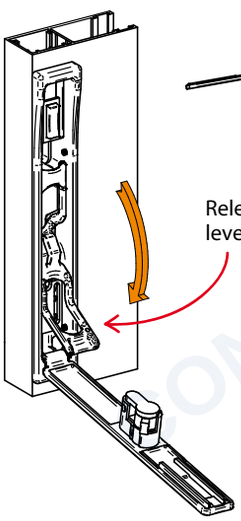
SLIM37-IN

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

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







APE - 556 / 1160
SLIM37-IN
Security box in-wall
€ 200,90

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
€ 61,80

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

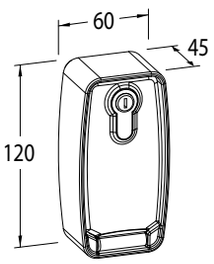


APE - 556 / 1154
SMALL53-IN
Flush-mounted selector switch with break release
€ 67,00

SMALL59

Aluminium security box with break release and push button

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





APE - 556 / 1150
SMALL59
Security box
€ 59,70

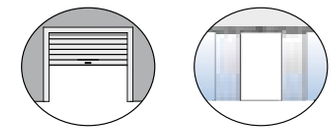
Devices and mechanical accessories/
Roller shutter locks and Key-switch

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
€ 53,60

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
€ 30,90

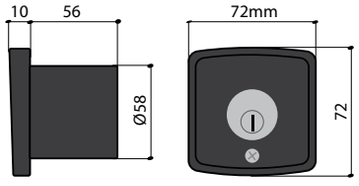
ECO-KEY-IN

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
€ 37,10



FLAT

Aluminium wall-mounted key-switch

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



APE - 136 / 6015
FLAT - Aluminium wall-mounted key-switch
€ 40,20

CONTROL ACCESS DISTRIBUTION

Devices and mechanical accessories/
Batteries

CR2032
CR2032 3V battery for EGO64, EGO433, EGO-PLUS transmitter, brand: "Maxell"

minimum pack and its multiples: 25 pcs



APE - 550 / 9501
€ 2,00/cad

BATT3.6V
3.6V Lithium battery for Radioband3

pack: 1 pcs



JCM-3004484
€ 10,60/cad

BATT1.5V
1,5V AA alkaline battery for RadioBand1G and Sensitive safety edges

pack: 1 pcs



JCM - 3002997
€ 4,20/cad

CR2
3V lithium battery for EGO-KODE brand "Panasonic"

pack: 1 pcs



APE - 550 / 9503
€ 5,50/cad

ALK12V
12V alkaline battery for GP23AE transmitters

minimum pack and its multiples: 50 pcs



APE - 622 / 2401
€ 2,40/cad

CR2450
3V battery for INDUS



APE - 550 / 9505
€ 4,10/cad

CONTROL ACCESS DISTRIBUTION

Devices and mechanical accessories/
Power magnets

4500FS

200 kg power magnet for external mounting IP67

degree of IP67 protection



IGEM4500FS
Power magnet 200 kg for outdoor use
€ 214,00

mounting: **Universal, surface**
load capacity: **200 kgf (*)**
finish: **AISI 304 stainless steel**
power supply: **12/24 Vdc**
power consumption: **500/250 mA**
mounting brackets: **None**
door status monitoring: **No**
use category - rating: **3**
dimensions: **164x32x25 mm**
protection degree: **IP67**
weight: **3 kg**

TECHNICAL SPECIFICATIONS
- Robust design, high-quality finishes
- Corrosion-proof: Salt Spray Test (ISO 9227, ASTM B 117-90)
- No residual magnetism
- No button required on the armature to unlock the door
- Integrated MOV overvoltage protection
- Maintenance category: Grade 3 (3000N-300kgf) Tolerance 15%
- Usage category: Grade 3 (public – high grade)
- Resistance/durability: Grade 9 (> 1,000,000 cycles)
- Corrosion resistance: Grade 3 (EN 1670, EN ISO 9227)
- **10-year warranty**

APPLICATIONS
Outdoor power magnets can be used on swing gates for:

Locking **gate OPEN** in case of wind or accidental pushing	Locking **gate CLOSED** as an anti-burglary device

5000G

750 kg power magnet for external mounting IP67

degree of IP67 protection



IGEM5000G
Power magnet 750 kg for outdoor use
€ 508,00

For automatic doors and gates

mounting: **Universal, surface**
load capacity: **750 kgf (*)**
finish: **AISI 304 stainless steel**
power supply: **12/24 Vdc**
power consumption: **500/250 mA**
mounting brackets: **AMZB5000 excluded**
door status monitoring: **Relay contact (REED)**
use category - rating: **6+**
dimensions: **224x63,5x45 mm**
protection degree: **IP67**
weight: **5 kg**

TECHNICAL FEATURES
- Robust design, high-quality finishes
- Corrosion-proof: Salt Spray Test (ISO 9227, ASTM B 117-90)
- No residual magnetism
- No button required on the armature to unlock the door
- Integrated MOV overvoltage protection
- Holding category: Grade 3 (3000N – 300kgf) Tolerance 15%
- Usage category: Grade 3 (public – high level)
- Strength/durability: Grade 9 (> 1,000,000 cycles)
- Corrosion resistance: Grade 3 (EN 1670, EN ISO 9227)
- 10-year warranty
- **Maintenance category: Grade 6+ (7500N – 750kgf) Tolerance 15%**

CONTROL ACCESS DISTRIBUTION

Devices and mechanical accessories/
Electric lock and Fall prevention cable

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

APPLICATIONS
The ELV electric lock is ideal for use as an electric lock and release mechanism for swing gates, with the locking plate fixed to the floor.



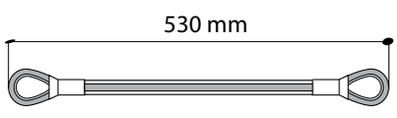
APE - 518 / 5001
ELV
Vertical
electric lock
€ 133,90

COL

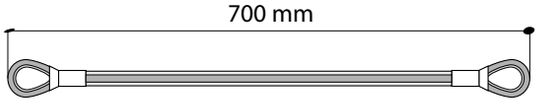
Fall prevention cable

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
€ 23,80



APE - 542 / 0070
COL70
Fall prevention cable
lenght = 700 mm
€ 26,00

CONTROL ACCESS DISTRIBUTION

Devices and mechanical accessories/
Power supply

PS24

Power supply 24V - 0,5A - 12W

degree of IP20 protection



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 PS24
€ 33,20

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

Input voltage: 100-240 Vac
Output voltage: 24 Vdc
Current c/rated output: 0,25-0,13 A
Ouput current: 0,5 A
Dimensions: 56 x 32,5 x 56 mm
Weight: 0,06 kg
Operating temperature: -20°C, +60°C

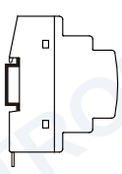
Application examples:
- Home automation
- Cameras
- Sensors
- Constant voltage LED
- Electronic circuits

PSB12V24W

Power supply 12V - 2A - 24W

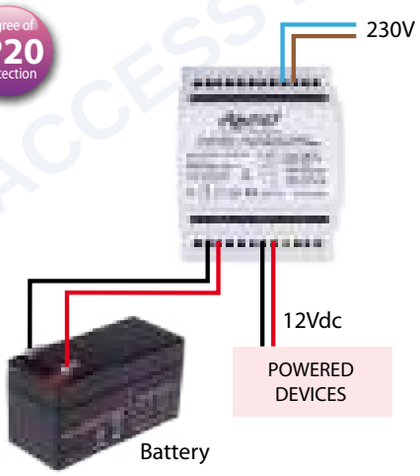
degree of IP20 protection





NEW

Use on DIN-RAIL BAR (4 modules)



APE - 143 / 1224W
PSB12V24W Power supply DIN RAIL Bar - 230/12V
€ 92,00

TECHNICAL DATA

Input voltage: 100÷240 Vac
Output voltage: 12÷14 Vdc
Current c/rated output: 0,45÷0,35 A
Ouput current: 2 A (0,7 A battery)
Dimensions: 70 x 90 x 66 mm
Weight: 0,35 Kg
Operating temperature: -20°C, +60°C

PS24V25W

Power supply 24V - 1A - 25W

degree of IP20 protection



NEW

Use on DIN-RAIL BAR TS35/7,5 e TS35/15 (2 modules)



APE - 143 / 0025
PS24V25W Power supply DIN RAIL Bar - 230/24V
€ 45,00

TECHNICAL DATA

Input voltage: 100÷240 Vac
Output voltage: 24 Vdc
Current c/rated output: 0,6÷0,3 A
Ouput current: 1 A
Dimensions: 35,5 x 90 x 66 mm
Weight: 0,17 Kg
Operating temperature: -20°C, +70°C

CONTROL ACCESS DISTRIBUTION

Notes

CONTROL ACCESS DISTRIBUTION

AB tecno - Terms of Sale

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

2. Orders
All orders are "subject to availability and change of price lists". Ab Tecno reserves the right to accept or refuse, in whole or in part, the orders of the Customer in reason of their conformity or not with the present general conditions and the availability of the requested products. Ab Tecno reserves the right to make at any time technical changes to the products in the price list, without this generating any claim by the Customer.
Orders can not be canceled in whole or in part by the Customer after 5 days from their transmission to Ab Tecno srl; in case of cancellation after this term, Ab Tecno srl will be entitled to the entire indemnity.

3. Prices
The products are sold by Ab Tecno to the customer at the Ab Tecno srl price list in force at the time of delivery. The Customer undertakes to accept without reserve the eventual variations of the list intervened between the order and the delivery of the product.
Each new Ab Tecno price list cancels and replaces the previous ones. Ab Tecno srl list prices are always intended ex-works, excluding VAT.

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

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

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

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

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

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

- Checks, promissory notes and credit transfers will not be considered as payments made effective from actual collection. In case of failure Payment Ab Tecno srl can resume the immediate possession of products sold wherever they are. The Customer is obliged to communicate the names third party buyers of the products in which Ab Tecno srl will have the right to claim them and to withdraw them.

10. Payment conditions

- All payments must be made exclusively to Ab Tecno srl, and executed according to the terms and methods indicated on the invoice.
- INTERESTS OF MORA: failure to comply with the deadline set for payment will result in default interest charged to the Customer, in the measure established by the D.L. 9.10.2002, N.231, implementation of the community directive n. 2000/35 / EC, and in any case within the maximum limits of the regulations in force, without the need for communication or formal notice.
- FACULTY OF WITHDRAWAL AND SUSPENSION OF THE EXECUTION: in case of delay in the payment of even one of the agreed installments and deadlines, Ab Tecno srl reserves the right to suspend - even without notice - the execution/delivery of the order, and/or to withdraw from any contracts in progress, even if different from those to which the non-payment refers, without the Customer's right to indemnity or compensation of any kind.
  Failure to pay within the agreed terms will also entitle Ab Tecno srl to make further deliveries subject to the full payment of the price expired with related interest, and of the expiring one, due to the expiry of the Customer from the benefit of the term on subsequent payments or the simultaneous provision of adequate guarantees.
  The same faculties belong to Ab Tecno srl whenever changes occur in the person of the purchaser, in its structure or social structure, patrimonial situation or consistency or commercial image, as well as in cases of elevation of protests, slope of executive procedures or bankruptcy, issue of payment orders, suspensions, deferments or delays in the performance of obligations to third party creditors.
  COMPENSATION: It is not allowed, unless otherwise expressly accepted in writing, any compensation between any credits claimed by the Customer in comparisons of Ab Tecno srl and the debts of the same Customer, for whatever title, deriving, inherent and/or consequent the contract of sale.

11. Patents, trademarks and distinctive signs

The Customer is aware that Ab Tecno srl products are covered by patents and are subject to Know How and Design constituting industrial property exclusive of Ab Tecno srl. It is expressly forbidden to the customer to violate these rights of Ab Tecno srl and in any case to remove, suppress or otherwise alter trademarks and other distinctive signs or acronyms of any kind affixed to the products, as well as of new ones of any nature. Unless authorized writtenly by Ab Tecno srl, any form of reproduction or use of the Ab Tecno srl trademark and any other distinctive mark on the products is forbidden.

12. Resolution clause

In case of non-payment of the price, the sale can be settled in full right at any time with the simple written communication of Ab Tecno srl to the customer to make use of this clause and without the need for no judicial formalities.
The goods delivered and not paid must be returned to Ab Tecno srl at the expense of the customer.
To this end, Ab Tecno srl, and the third party contractors in charge, are authorized to withdraw and withdraw the goods from the customers' premises.

13. Approvals

Ab Tecno srl products report the data necessary for the identification of the certifications obtained. Knowledge and compliance with any regulations that regulate the use of the charges to be charged to the installer and / or user.

14. Italian law and competent court

For any controversy that arises in the execution of the contract it is convenient to apply the Italian Law and the jurisdiction for the territory in exclusive way of the Italian Judge, Court of Bologna.

CONTROL ACCESS DISTRIBUTION

Notes

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AUTOMATION ACCESSORIES

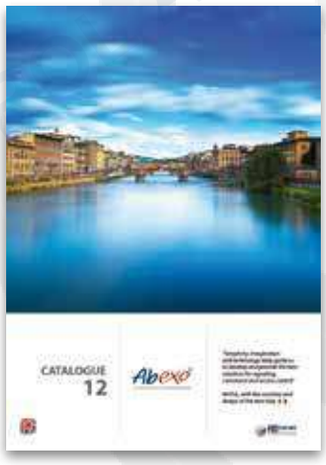
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