



## A ROBUST DESIGN FOR HGV ACCESS

**iNTELLIGENT** BOOM BARRIER WITH HIGH STRENGTH  
FIBERGLASS ARM UP TO 10 M



Real-time detection and classification of **7 user categories**: pedestrian, bicycle, motorcycle, car, van, truck and bus

Configure the barrier's behaviour according to the **detected user category** and **predefined time schedules**

Operates without inductive loops, photoelectric cells, radar/laser or ultrasonic sensors, **ensuring a simpler installation**

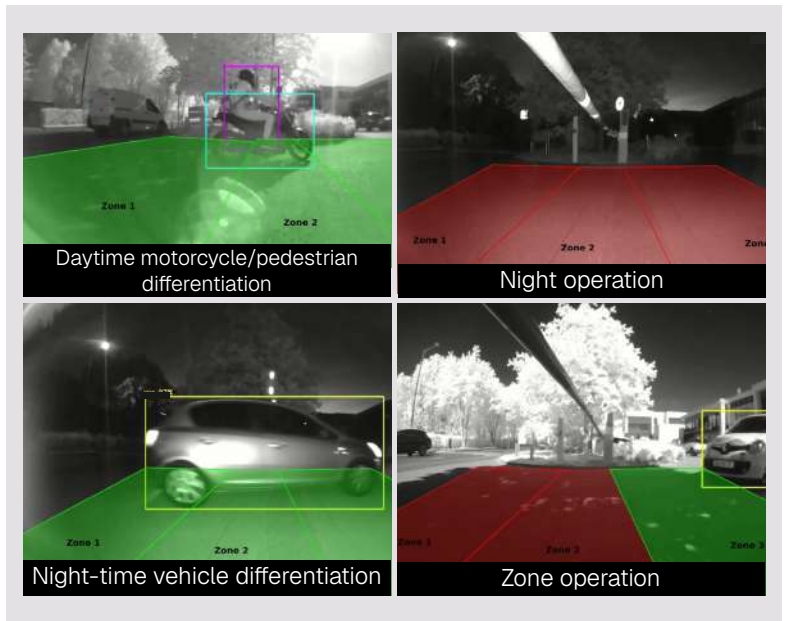
Create up to **5 configurable virtual detection zones** to adapt the operating logic

### STANDARD CHARACTERISTICS

- **Speed:** Variable from 3.1 seconds
- **Continuous operation:** 10,000 cycles/day
- **Boom:** ø140 mm tapered axial reinforced fibreglass from 2 to 10 m / one-piece without guy wire
- **Geared motor:** Three-phase / 230 V single-phase power supply
- **Balancing:** Compression spring
- **Housing:** Cataphoresis treated steel sheet with a Ronis 405 lock + Standard RAL 5015
- **Top cover:** 2 mm thick aluminium sheet with RAL 9010 paint
- **ONE-C board:** Control board operable via wired connection or network (Modbus TCP/IP, RS485), featuring an LED interface and remote access, ensuring optimized motor management (speeds, ramps), with updates via SD card and simplified installation
- **ONE-SENSE sensor:** Cam-mounted sensor providing real-time boom position with one-degree accuracy. Enables automatic end-stop learning and automatic boom lifting in the event of an impact
- **Reduction gear:** Reversible/irreversible (to be defined)



## THE INTELLIGENT BARRIER FOR OPTIMAL ACCESS CONTROL RECOGNIZE – AUTHORIZE – PROTECT



LBAi installation **without additional civil engineering work**

**7 recognized user categories:** pedestrian, bicycle, motorcycle, car, van, truck or bus

**170° lateral coverage, 70° vertical coverage** and range up to **10 m**

Activity log consultation with recording and history of detected events **available on request**

## COMMISSIONING VIA DIGITAL PLATFORM

### DEFINE DETECTION ZONES

Define upstream zone, downstream zone, under-boom zone and safety zone, and configure distances

### PRODUCT CONFIGURATION

Product type, passage width, opening direction, required speed

### SELECT AUTHORIZED USERS

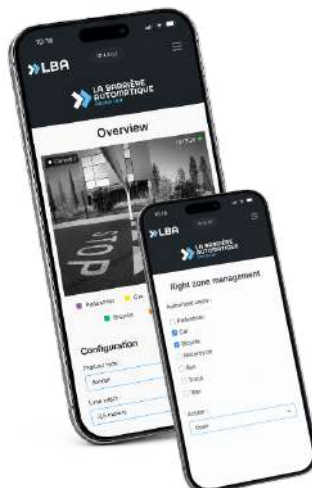
Pedestrians, bicycles, motorcycles, cars, vans, trucks or buses

### ASSIGN ACTIONS

Opening, open hold, safety, presence detection or alert according to each zone and vehicle category

### DEFINE TIME SLOTS

Adapt opening, safety or access rules according to days and hours



## USE CASE EXAMPLES

### PEDESTRIAN AREA

*Prevent car access, allow pedestrians and bicycles, allow deliveries only during defined time slots*

### BUS DEPOT

*Allow buses, deny other vehicle categories*

### LOGISTICS SITE

*Allow trucks and utility vehicles, block cars, bicycles and pedestrians*

### SUBSCRIBER PARKING

*Distinguish motorcycles from cars to apply suitable pricing and reduce fraudulent access*

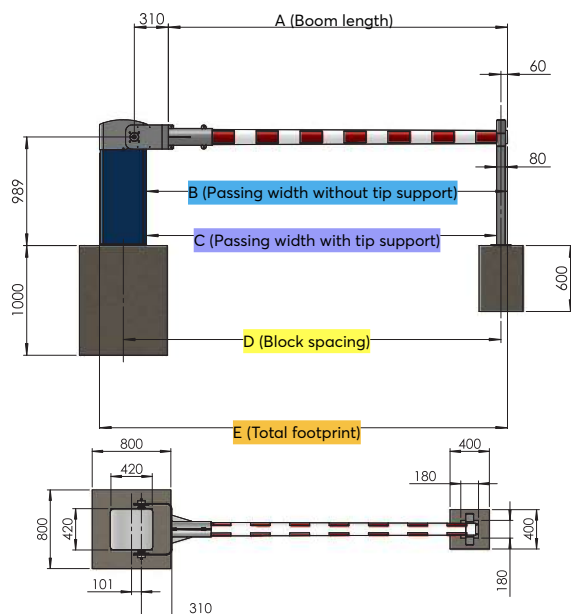
**AND MANY OTHER USE CASES TAILORED TO YOUR NEEDS...**

## TECHNICAL SPECIFICATION

|                               |                                                                                                          |
|-------------------------------|----------------------------------------------------------------------------------------------------------|
| Power supply                  | 230 V                                                                                                    |
| Consumption                   | 0.55 kW three-phase motor (irreversible)<br>0.25 kW three-phase motor (reversible)                       |
| Geared motor                  | irreversible or reversible for automatic lifting                                                         |
| Counterbalance                | Compression spring<br>+ chain and pinion (irreversible)                                                  |
| Boom                          | Ø140 mm polyester reinforced fibreglass                                                                  |
| Arm clamping brackets         | 8 mm galvanised steel                                                                                    |
| Operating time                | From 3.1 sec (variable depending on options)                                                             |
| MCBF (number of cycles)       | 5 million                                                                                                |
| MTBF (hours)                  | 15,000                                                                                                   |
| MTTR (average time to repair) | 30 minutes                                                                                               |
| Maximum boom length           | 10 m                                                                                                     |
| Emergency operation           | Irreversible gear motor : by hand crank<br>Reversible gear motor : automatic lifting when tension is low |
| Temperature control           | Anti-condensation heating (if irreversible)                                                              |
| Paint                         | Polyester powder                                                                                         |
| Overall dimensions (LxDxH)    | 800 x 800 x 1,000 mm                                                                                     |
| Operating temperature         | -30 ° to +55 °C                                                                                          |
| IP rating                     | 54                                                                                                       |

| Boom length (m) | Passing width (m) | Weight (kg) | Arm rest |
|-----------------|-------------------|-------------|----------|
| 4.00            | 4.00              | 192         | No       |
| 5.00            | 5.00              | 195         | No       |
| 6.00            | 6.00              | 198         | Yes      |
| 7.00            | 7.00              | 201         | Yes      |
| 8.00            | 8.00              | 202         | Yes      |
| 9.00            | 9.00              | 204         | Yes      |
| 10.00           | 10.00             | 205         | Yes      |

## INSTALLATION



| Boom length<br>A in mm | Passing width<br>without tip support<br>B in mm | Passing width<br>with tip support<br>C in mm | Block spacing<br>D in mm | Total footprint<br>E in mm | Open barrier<br>height H in mm |
|------------------------|-------------------------------------------------|----------------------------------------------|--------------------------|----------------------------|--------------------------------|
| A                      | A = B - 200                                     | A = C - 100                                  | A = D - 350              | A = E - 630                | A = H - 1,300                  |

## OPTIONS

### Fail safe open in the event of a power failure

#### Customisation

- Special colour polyester paint (RAL to be defined)

#### Audible & visual signals

- Lighted cover with LED lights
- Lighted boom
- Flashing lights on housing
- Flashing light on boom
- Penetration lights
- R23 red and green lights on integrated post
- Signalling via standardised panels
- Siren on passage violation

#### Safety

- Galvanised anti-corrosion housing
- Motorised rotation device
- Anti-vandalism pack
- Internal anti-fraud locking (reversible)
- Programmable Cardin S 449-433 MHz 1-channel radio receiver
- Adjustable rest
- Adjustable tip support
- Internal anti-fraud locking (reversible)
- Electromagnetic locking on rest
- Electromechanical locking on rest
- LBA Connect

### Power supply:

- ø63 mm janolene
- U-1000 RO 2V 3 x 2.5 mm<sup>2</sup> cable

### Remote control:

- ø40 mm green janolene
- 5 pair 9/10 core telephone cable

### Arm rest connection:

- ø30 mm tube
- Infrared cell, magnetic plunger, etc.

### Magnetic loop cable:

- ø30 mm tube
- Twisted pair loop cable

### Sealing template + 4 mounting rods

- The template remains level in situ and must rest entirely on solid concrete
- Tip support base plate

