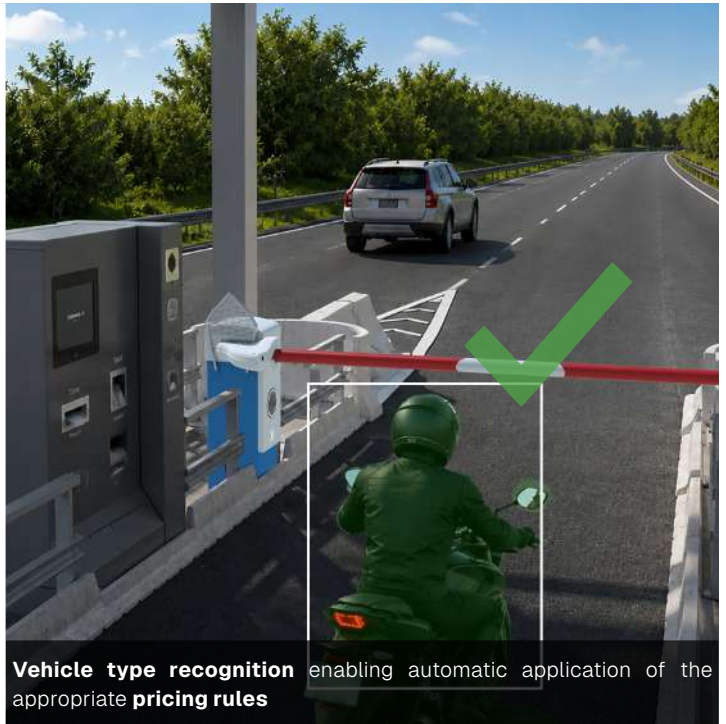


LBAi 63 TOLL FLEX

THE WORLD'S LEADING TOLL BARRIER

INTELLIGENT BOOM BARRIER WITH LATERAL ARM UP TO 3.5 M



Vehicle type recognition enabling automatic application of the appropriate **pricing rules**

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

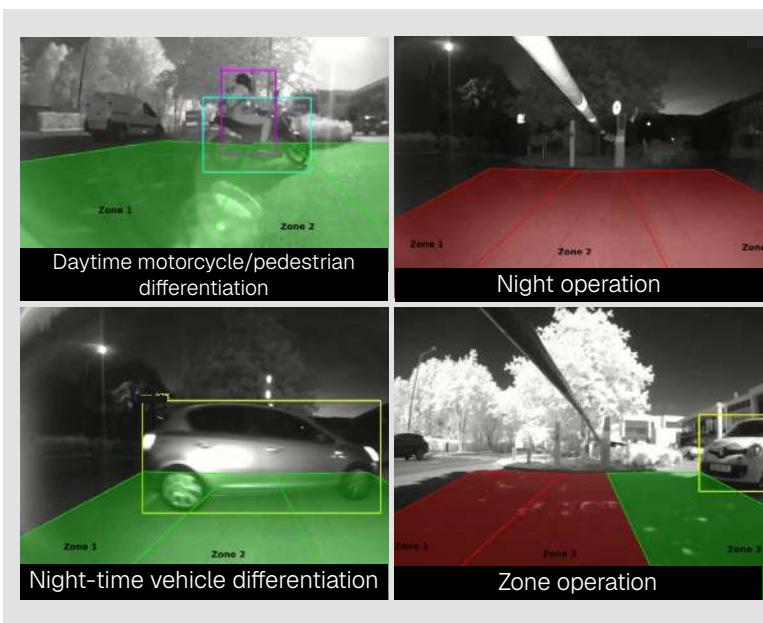
- **Variable speed:** Adjustable from 0,6 seconds
- **Continuous and intensive operation:** 20,000 cycles/day
- **Flex Boom:** Unique and patented, tested and validated through more than 1,200 impacts without breakage – Length up to 3.5 m, Ø 85 mm with reflective strips
- **Geared motor:** Three-phase / 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
- **Controlled boom release/rehinging:** Anti-bounce system & automatic rehinging
- **Maintenance:** Tool-free boom replacement



 TOLL BARRIERS  INDUSTRY  SERVICES  PAID PARKING

LBAi 63 TOLL FLEX

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

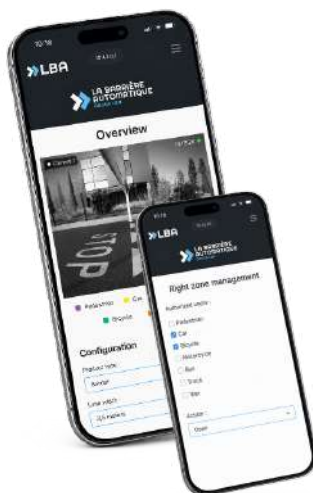
Pedestrians, bicycles, motorcycles, cars, vans, trucks or buses

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...

LBAi 63 TOLL FLEX

TECHNICAL SPECIFICATION

Power supply	230 V
Consumption	0.18 kW three-phase motor
Geared motor	Reversible
Counterbalance	Compression spring + chain and sprocket
Boom	Shock absorbing flex arm tested with 1200 impact without breacking Other option: Ø 85 mm carbon + foam
Operating time	From 0.6 sec (variable depending on options)
MCBF (number of cycles)	10 million
MTBF (hours)	15,000
MTTR (average time to repair)	15 minutes
Maximum boom length	3.8 m
Emergency operation	Fail safe open in the event of a power failure
Paint	Polyester powder
Overall dimensions (Lx- DxH)	600 x 600 x 800 mm
Operating temperature	-30 ° to +55 °C
IP rating	54

OPTIONS

Customisation

- Polyester paint with a choice of colours (RAL to be defined)

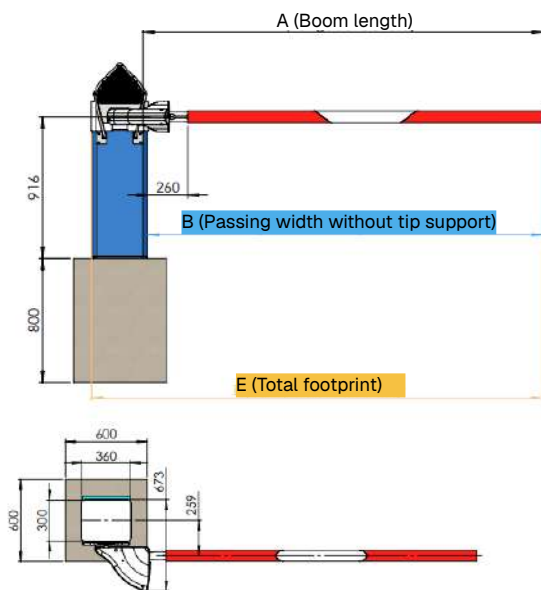
Audible & visual signals

- LED strip light cover
- Flashing lights on the housing
- Flashing light on the boom
- Penetration lights
- Red and green R23 light on integrated post
- 'No pedestrians' sign screen-printed on the boom cover
- Siren when the barrier is breached
- LED cover

Safety

- Galvanised anti-corrosion bodywork
- Aluminium bodywork
- Miss Screen compatible
- Internal anti-fraud lock (reversible)
- Front unhinging device
- Cardin S 449-433 MHz 1-channel programmable radio receiver
- LBA Connect

INSTALLATION



Power supply:

- ø63 mm janolene
- U-1000 RO 2V 3 x 2.5 mm² cable

Remote control:

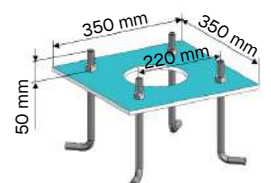
- ø40 mm green janolene
- 5 pair 9/10 core telephone cable

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



Boom length A in mm	Passing width without tip support B in mm	Total footprint E in mm	Open barrier height H in mm
	$A = B + 140$	$A = E - 325$	$A = H - 1060$

