

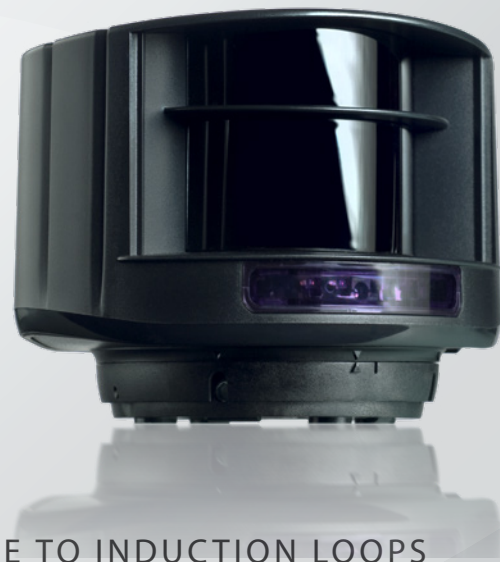
FAAC

Simply automatic.

LZR[®] - H100

LASER SENSOR
FOR RISING BARRIERS

Commercial sheet



AN INNOVATIVE ALTERNATIVE TO INDUCTION LOOPS

DESCRIPTION

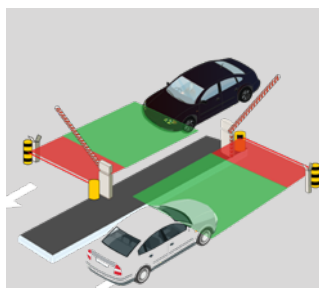
The **LZR[®]-H100** offers a real alternative to induction loops: time gain during installation, detection of all types of vehicles and greater adaptability. This laser sensor was specially developed to open and secure automatic rising barriers. Furthermore, it offers great flexibility in defining the width and depth of the detection zones.



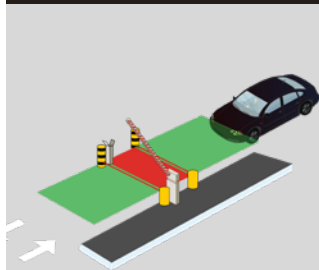
PERFORMANCE

- Double function: opening of barrier & safety of its users
- Easy installation of the product without heavy roadworks
- Detection of all types of vehicles: passenger cars, electrical vehicles, vehicles made of composite materials, trucks with trailers...
- Detection of the vehicle's trajectory: approaching or moving away
- Pedestrian filter in opening field
- Maximum detection field of 9.9 m x 9.9 m
- Independence of ground surface and the environment
- Optional deactivation of the LED indicators makes the equipment more discrete

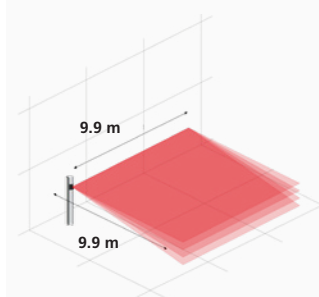




Double access lane



Single access lane



Max. detection field

EASE OF INSTALLATION

- Alternative to induction loops: installation and adjustment without heavy road works
- Unrestricted, easy configuration of the opening and presence detection areas
- Positioning of the detection fields facilitated by means of 3 visible laser beams
- Option of mounting the device on the left or right of the barrier
- Automatic learning of the environment

TECHNICAL SPECIFICATIONS

Technology	laser scanner, time-of-flight measurement
Detection mode	motion and presence
Max. detection range	9.9 m × 9.9 m
Emission characteristics	
IR laser (CLASS 1)	wavelength 905 nm; max. output pulse power 75 W
Laser visible (CLASS 3R)	wavelength 650 nm; max. output CW power 3 mW
Supply voltage	10-35V DC @ sensor side
Power consumption	< 5 W
Cable length	5 m (standard), max.: 10 m
Response time	
Motion detection	typ. 200 ms (adjustable)
Presence detection	typ. 20 ms; max. 80 ms
Output	2 electronic relays (galvanic isolated - polarity free)
Input	1 optocoupler (galvanic isolated - polarity free)
LED-signal	1 blue LED: power-on status 1 orange LED: error status 2 bi-coloured LED's: detection/output status (green: no detection; red: detection)
Dimensions	125 mm (D) × 93 mm (W) × 70 mm (H) (with mounting bracket + 14 mm)
Material	PC/ASA
Colour	Black
Protection degree	IP65
Temperature range	-30°C to +60°C if powered; -10°C to +60°C unpowered
Humidity	0-95 % non-condensing
Vibrations	< 2 G
Pollution on front screens	max. 30%; homogenous
Norm conformity	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)

*Specifications are subject to changes without prior notice.
All values measured in specific conditions.*

