

# LZR<sup>®</sup> - H100

## LASER SENSOR FOR RISING BARRIERS

Commercial sheet



### AN INNOVATIVE ALTERNATIVE TO INDUCTION LOOPS

#### DESCRIPTION

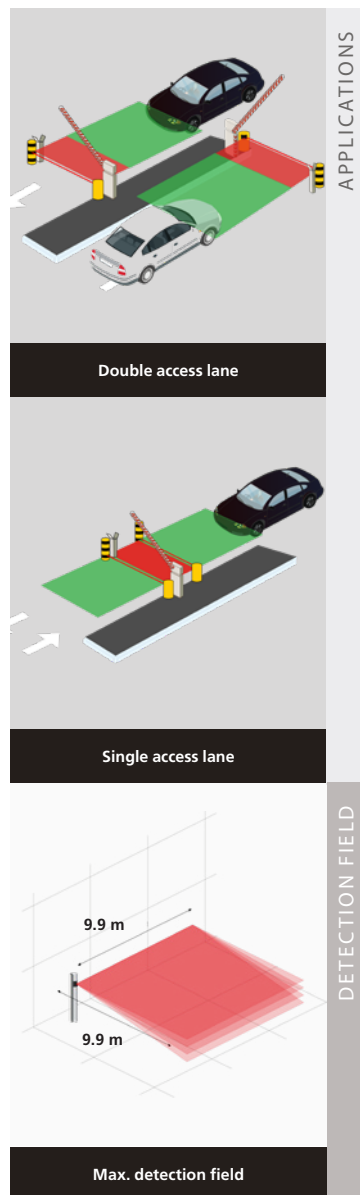
The **LZR<sup>®</sup>-H100** offers a real alternative to induction loops: time gain during installation, detection of all types of vehicles and greater adaptability. This laser sensor was specially developed to open and secure automatic rising barriers. Furthermore, it offers great flexibility in defining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





## 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

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



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