

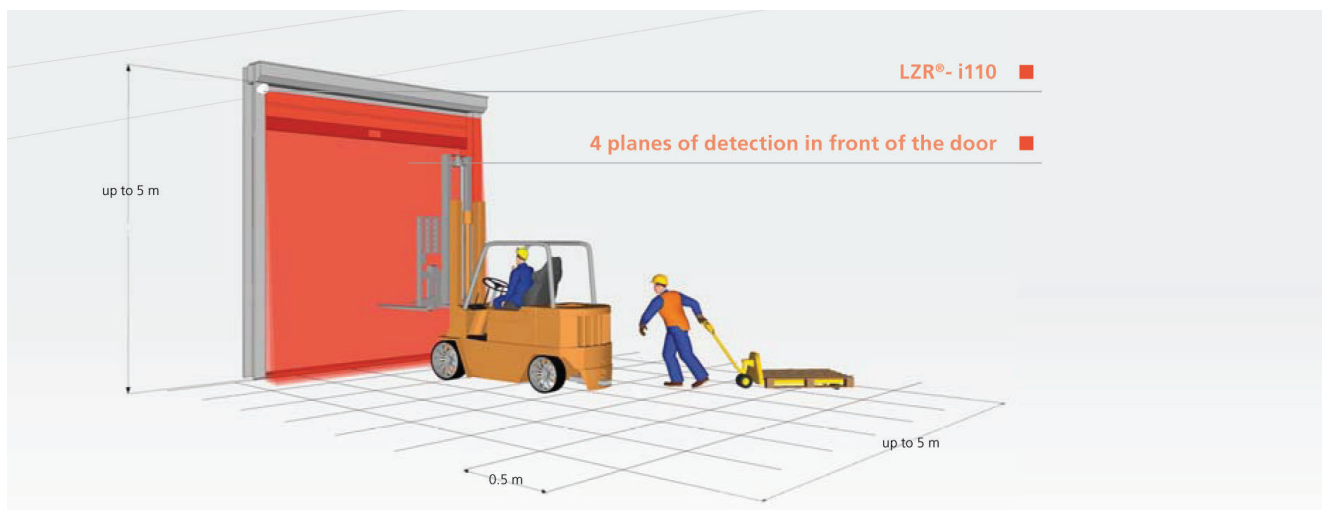
The premium safety solution

■ Up to 5 x 5 metres



Description

The **LZR®-i110** works according to the principle of time of flight. This high-precision technology ensures optimal safety. A dynamic orientation of the LASER beams on 4 planes offers more safety in the door threshold and its proximity.



Performance

- Maximal detection range : 5 x 5 m.
- Variable depth of plane (0.5 m max.) according to the installation height.
- High performance safety solution for industrial doors certified CAT.2 according to EN 954-1, PL "c" according to EN ISO 13849-1 and Type E according to EN 12453.
- High level of safety with a complete three-dimensional detection in front of the door.
- Detection of small objects.*
- Replaces the current solutions such as contact edges, light beams and lightgrids.
- Easy installation and opportunity for the retrofit.

* up to a few centimeters depending on the application.



APPLICATIONS

APPLICATIONS

- Safety at the opening and the closing of the door thanks to 2 separate detection areas.
- Possibility to create 2 virtual push buttons to open the door.

DESIGNED FOR INDUSTRIAL ENVIRONMENTS

- Filters door vibrations and environmental interferences.
- Filters door leaf deformation by wind force.
- Degree of protection: IP65.

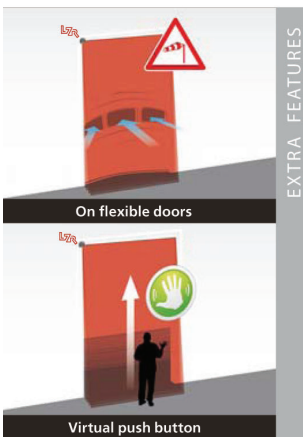
EASE OF INSTALLATION

- Easy setting of the detection zone with 3 visible LASER beams.
- Automatic learning of environment within detection zone.
- Setting with the universal remote control.
- Cable of 10 m provided.

TECHNICAL SPECIFICATIONS

Technology	LASER scanner, time-of-flight measurement
Detection mode	Presence (EN 12453 Type E)
Max. detection range	5 m x 5 m
Remission factor	> 2 %
Emission characteristics	IR LASER Red visible LASER
	Wavelength 905 nm; max. output pulse power 75 W; Class 1 Wavelength 650 nm; max. output CW power 3 mW; Class 3R
Supply voltage	10-35V DC @ sensor terminal
Power consumption	< 5 W
Response time	Typ. 20 ms; max. 80 ms
Output	2 electronic relays (galvanic isolation - polarity free) Max. switching voltage 35V DC / 24V AC Max. switching current 80 mA (resistive)
LED-signals	1 blue LED: power-on status 1 orange LED: error status 2 bi-coloured LEDs: detection/output status
Dimensions	125 mm (L) x 93 mm (D) x 70 mm (H) (mounting bracket + 14 mm)
Material	PC/ASA
Colour	White
Rotation angles on bracket	-5° to +5° (lockable)
Tilt angles on bracket	-3° to +3°
Protection degree	IP65
Temperature range	-30 °C to +60 °C if powered
Humidity	0-95 % non-condensing
Vibrations	< 2 G
Size of target	< 300 mm x 200 mm x 700 mm @ 7 m (EN 12445 testbody A)
Norm conformity	2006/95/EC: Low Voltage Directive; 1999/5/EC: R&TTE; 2004/108/EEC: EMC; 2006/42/EC: Machinery Directive; 2002/95/EC: RoHS; EN 60825-1 Class 1+3R; EN 60950-1; EN 60529 IP65; EN ISO 13849-1 Performance Level „c“; EN 12445; EN 12453 Typ E; EN 954-1 CAT.2

Specifications are subject to change without prior notice.



EXTRA FEATURES



Guthrie Douglas

Guthrie Douglas Limited

Unit 1, Titan Business Centre,
Spartan Close,
Warwick, UK CV34 6RR
Tel: (+44) 01926 452 452
Fax: (+44) 01926 336 417
E-mail: sales@guthriedouglas.com



Assessed to ISO 9001: 2008
Certificate No 193