



## SAFETY SENSOR FOR INDUSTRIAL DOORS

# LZR®-i30

## LASER SCANNER

### FEATURES

- Cat.2/PL "C" high performance safety solution certified by TÜV for industrial doors
- High level of safety with a three-dimensional, complete presence detection area in front of the door
- Detects objects as small as 2 in.
- Alternative solution to contact edges, light beams, light curtains or any other safety solution
- Option of creating up to 2 virtual push buttons
- Reduces the possibility of collision/tampering damage due to the overhead mounting position
- Easy installation

### DESIGNED FOR INDUSTRIAL ENVIRONMENTS

- Filters door vibrations and environmental interferences
- Filters door panel deformation caused by wind force
- Degree of protection: IP65 / NEMA 4
- External, Self Monitoring

### LASER DETECTION

- Time of flight measurement: allows field dimensions to be customized (floor changes can be ignored)
- Maximum detection range: 30 ft x 30 ft
- Minimum object detection size: 2 in

### EASE OF INSTALLATION

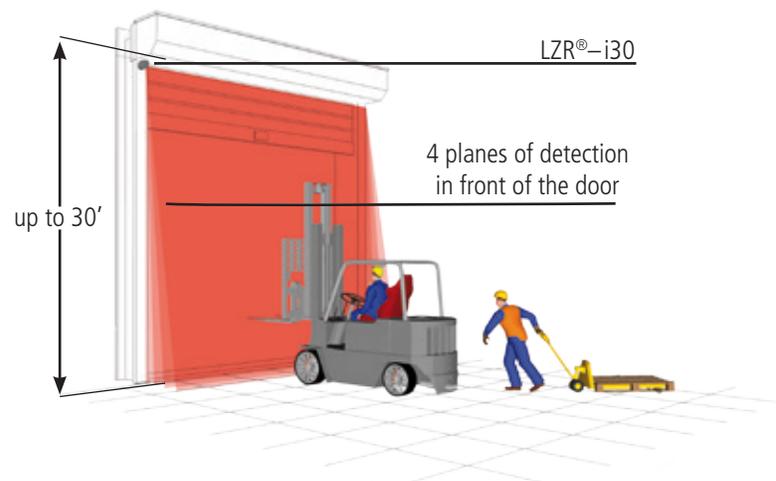
- 3 visible LASER beams show the LASER safety field position
- Automatic teach-in of safety field dimensions
- Safety field depth adjustment through deactivation of curtains



*Up to 30 ft x 30 ft of distance*

### The Premium Industrial Safety Solution

The LZR®-i30, works according to the principle of time of flight. It emits a light impulse and measures the amount of time it takes to receive the impulse back. This accurate technology enables the sensor to scan 4 planes in the front of the door, which helps to significantly reduce hazards within the door threshold and surrounding area.

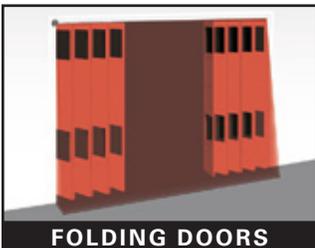


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## TECHNICAL SPECIFICATIONS

<b>Technology</b>	LASER scanner, time-of-flight measurement
<b>Detection Mode</b>	Presence (EN 12453 Typ. E)
<b>Max. Detection Range</b>	30 ft x 30 ft
<b>Remission Factor</b>	> 2%
<b>Emission Characteristics</b>	IR LASER Wavelength 905nm; maximum output pulse power 75W Red Visible LASER Wavelength 650nm; maximum output CW power 3mW
<b>Supply Voltage</b>	12 – 35 VDC @ Sensor Terminal
<b>Peak Current at Power-On</b>	1.8 A (Max. 80 ms @ 35 V)
<b>Power Consumption</b>	< 5W
<b>Response Time</b>	Min 20ms; Max 80ms
<b>Output</b>	2 electronic relays (galvanic isolated – polarity free) Max. Switching Voltage 35V DC / 24V AC Max. Switching Current 80 mA (resistive)
<b>LED-Signal</b>	1 Blue LED: Status « Power-on » 1 Orange LED: Status « Error » 2 Bi-colored LEDs: Status « Detection / Output »
<b>Dimensions (WxLxH)</b>	4.92 in x 3.66 in x 2.76 in (With Mounting Bracket + ½”) / Cable Length 30 ft
<b>Material</b>	PC/ASA
<b>Color</b>	Black
<b>Rotation Angle on Bracket</b>	±5° (Lockable)
<b>Tilt Angle on Bracket</b>	±3°
<b>Degree of Protection</b>	IP65 / NEMA 4
<b>Temperature Range</b>	-22°F to +140°F if powered
<b>Humidity</b>	0–95% non-condensant
<b>Vibrations</b>	< 2G
<b>Pollution on Front Screens</b>	Max. 30% ; Homogenous
<b>Cut Target</b>	< 11.81 in x 7.87 in x 27.56 in @ 23 ft (EN 12445 testbody A)
<b>Norm Conformity</b>	2006/95/EC: LVD; 2002/95/EC : RoHS; EN 60825-1; EN 61000-6-1: EMC-Commercial Level; EN 61000-6-2: EMC - Industrial level; 9.9 < 1999/5/EC : R&TTE; 2004/108/EEC: EMC ; 2006/42/EC: MD EN 60950-1; EN 60529; IEC 60825; EN ISO 13849-1 Performance Level “c”, CAT 2; EN 12445; EN 12453 Typ E

*Specifications are subject to change without prior notice.*

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