

# LZR<sup>®</sup> - K100

SAFETY SENSOR  
FOR INDUSTRIAL DOORS

Commercial sheet

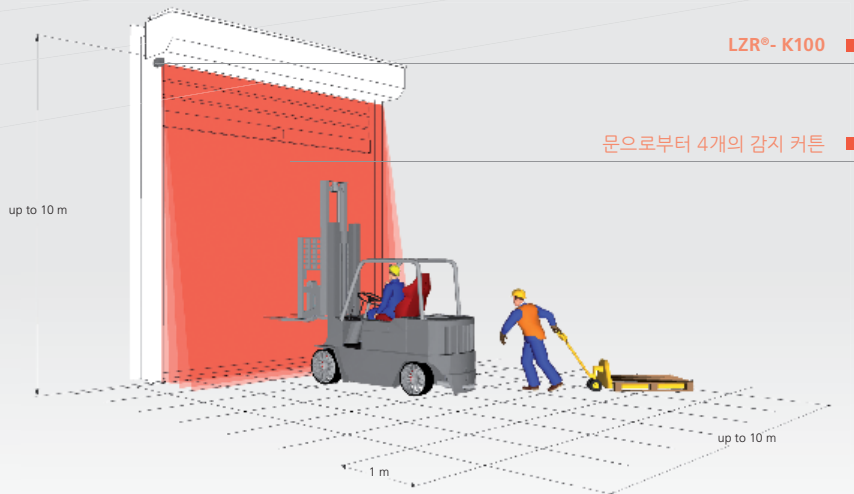


## THE PREMIUM SAFETY SOLUTION

### DESCRIPTION

LZR<sup>®</sup>- K100 은 Time-of-Flight 기술에 의해 동작합니다. 이 기술은 각각 4 개의 레이저 신호를 평면으로 송신 및 스캔하여, 각 신호의 되돌아오는 시간을 측정합니다. 따라서 어떠한 외부 환경에도 간섭없이 동작합니다.

Up to 10 m × 10 m



LZR<sup>®</sup>- K100 ■

문으로부터 4개의 감지 커튼 ■

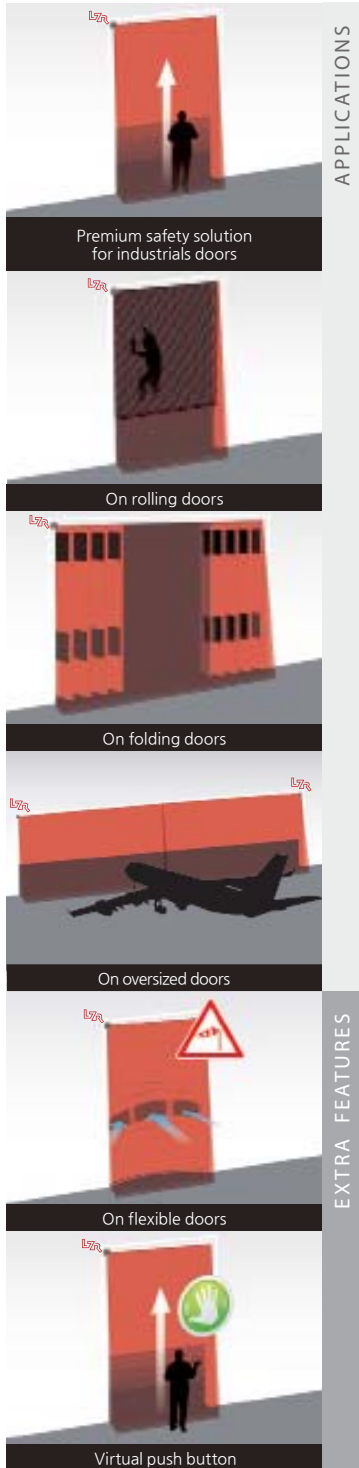
### PERFORMANCE

- 최대 감지 범위 : 10 x 10m
- 바닥으로부터 다양한 높이의 설치가 가능 (최대 0.5m)
- 산업용 도어 CE인증  
PL "d"/ CAT 2  
EN ISO 13849-1 and Type E  
EN 12453
- 문 앞의 3차원 감지 커튼이 높은 수준의 안전성을 제공합니다
- 작은 물체의 감지\*
- Contact edge, Light beam을 대체할 수 있습니다
- 설치와 장착이 쉽습니다

\* 설정에 따라 수 센티미터의 차이가 발생할 수 있습니다



OPEN UP NEW HORIZONS



APPLICATIONS

EXTRA FEATURES

**APPLICATIONS**

- 2개의 감지 영역이 문을 안전하게 여닫게 도와줍니다
- 2개의 Push Button을 설치하여 사용 가능합니다

**DESIGNED FOR INDUSTRIAL ENVIRONMENTS**

- 문의 진동, 외부환경으로부터의 영향을 최소화합니다
- 외부보호등급: IP65

**EASE OF INSTALLATION**

- 3개의 식별 가능한 레이저 빔으로 원하는 감지 영역에 세팅합니다
- 리모컨을 사용할 수 있습니다
- 10m의 케이블이 제공됩니다

**TECHNICAL SPECIFICATIONS**

|                            |  |
|----------------------------|--|
| Technology                 | LASER scanner, time-of-flight measurement  |
| Detection mode             | Presence (EN 12453 Type E)   |
| Max. detection range       | 9,9 m × 9,9 m  |
| Remission factor           | > 2 %  |
| Angular resolution         | 0,3516°  |
| Typ. min. object size      | 2,1 cm @ 3 m / 3,5 cm @ 5 m / 7 cm @ 10 m (in proportion to object distance)   |
| Testbody                   | 700 mm × 300 mm × 200 mm (testbody A according to EN 12445)  |
| Emission characteristics   |  |
| IR LASER                   | Wavelength 905 nm; max. output pulse power 75 W; Class 1   |
| Red visible LASER          | 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<br>1 orange LED: error status<br>2 bi-coloured LED: detection/output status  |
| Dimensions                 | 125 mm (L) × 93 mm (D) × 70 mm (H) (mounting bracket + 14 mm)  |
| Material                   | PC/ASA   |
| Colour                     | Black  |
| 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  |
| Norm conformity            | 2006/95/EC: LVD; 2002/95/EC: RoHS; 2004/108/EC: EMC; 2006/42/EC: MD;<br>EN 12453:2000 chapter 5.1.1.6, chapter 5.5.1 Safety device E; EN 12978:2009;<br>EN ISO 13849-1:2008 PL "d"/ CAT2; EN 60529:2001; IEC 60825-1:2007;<br>EN 60950-1:2005; EN 61000-6-2:2005; EN 61000-6-3:2006; IEC 61496-1:2009; EN 61496-3:2008 ESPE Type 2; EN 62061:2005 SIL 2;<br>DIN 18650-1:2010 Chapter 5.7.4 |

*Specifications are subject to change without prior notice.*

**DISCLAIMER** This document as well as all other enclosed documents (quotation / specification / other) are provided „as is“ without warranties of any kind, either expressed or implied, including but not limited to the implied warranties of merchantability, fitness for a particular purpose, or non-infringement. / Information is supplied upon the condition that the persons receiving it will make their own determination as to its suitability for their purposes prior to use. In no event will BEA be responsible for damages of any nature whatsoever resulting from the use of or reliance upon information from this document or the products to which the information refers. / BEA has the right without liability to change descriptions and specifications at any time. / Prices, shipping and availability are subject to change without prior notice.



41.9963 V4 / 08.11