



LZR®-WIDESCAN

MOTION, PRESENCE & SAFETY SENSOR
FOR INDUSTRIAL DOORS



VIDEO



[Watch the product video](#)

TECHNOLOGY

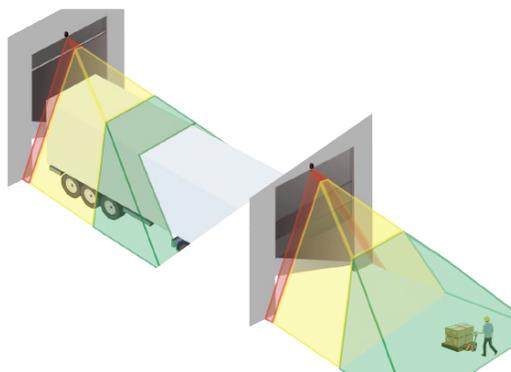
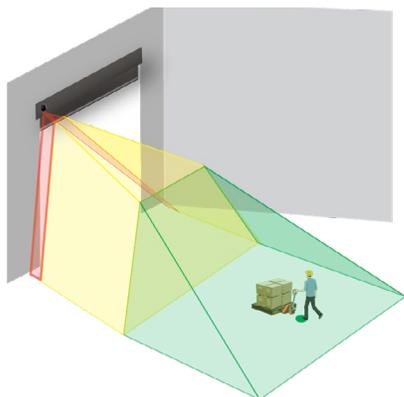


DESCRIPTION

BEA's **LZR®-WIDESCAN** is a LASER-based, Time-of-Flight sensor used for motion, safety and presence detection in a variety of industrial door applications. This all-in-one solution offers the benefits of activation and safety, while reducing installation time.

This NEMA 4 rated sensor creates a volumetric detection area by generating seven angled LASER curtains. It has the ability to detect objects based on direction, speed, object size and height.

The **LZR®-WIDESCAN** detection field operates independent of ground conditions, allowing for superior functionality in harsh environments.



Easy Setup

Precise activation zones allows for installers to walk the desired detection area

Energy-Efficient

Promotes energy savings by reducing false detections / unnecessary door cycling, helping to regulate HVAC

Virtual Pull-Cord

Virtual pull-cord function can differentiate between pedestrian and vehicle traffic and can provide pulse-on-stop activation

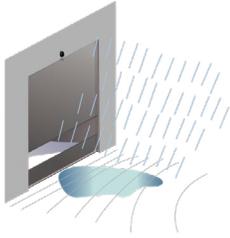
Alternative Solution

Ideal for replacing costly / labor-intensive induction loop and pull-cord solutions

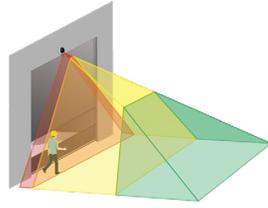
Visible Spots

Two visible LASER alignment spots ensure accurate pattern placement

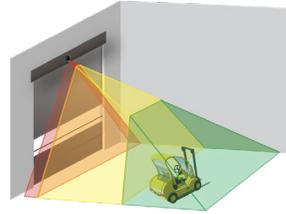
APPLICATIONS



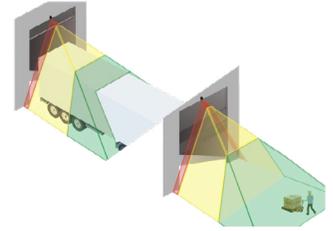
Dynamic Ground Conditions



Pedestrian Safety



Directionality

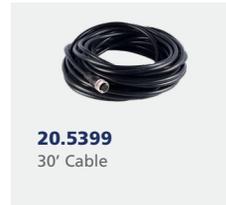
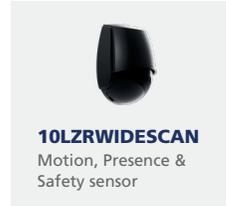


Full-Open / Partial-Open

TECHNICAL SPECIFICATIONS

Technology	LASER scanner, Time-of-Flight measurement (7 LASER curtains)
Detection Mode	Motion and Presence
Max. Detection Field	
Width	1 x mounting height
Depth	1 ½ x mounting height (adjustable depending on user settings)
Thickness of First Curtain	¾" per 3' of mounting height
Typ. Mounting Height	6'6" – 19'6"
Typ. Minimum Object Size	6" @ 19'6" (in proportion to object distance)
Test Body Dimensions	27 ½" x 11 ¾" x 7 ¾"
Min. Reflectivity Factor	> 2% (of floor and object) (measured at max. 19'6" in safety field)
Emission Characteristics	
IR LASER	Wavelength 905 nm; maximum output pulse power 0.10 mW (CLASS 1)
Visible LASER	Wavelength 635 nm; maximum output CW power 0.95 mW (CLASS 2)
Supply Voltage	12 – 24 VAC ±10% 12 – 30 VDC ±10% @ sensor terminal
Power Consumption	
Heating: Off	< 2.5 W
Heating: Eco or Auto	< 15 W
Response Time	Typ. 100 ms (max. 500 ms)
Output	2 solid-state relays (galvanic isolation, polarity free) 30 VDC (max. switching voltage) – 100 mA (max. switching current) - in switching mode: NO / NC - in frequency mode: pulsed signal (f= 100 Hz ±10%) 1 electro-mechanic relay (galvanic isolation, polarity free) 42 VAC (max. switching voltage) – 500 mA (max. switching current)
Input	30 VDC (max. switching voltage) low < 1 V high > 10 V (voltage threshold)
LED-Signal	2 tri-colored LEDs: Output status / Remote Control Response / Error Signals
Dimensions	7 ¾" (H) x 6" (W) x 4" (D) (approx.)
Material / Color	PC / ASA / Black
Rotation Angles on Bracket	45° to the right, 15° to the left (lockable)
Tilt Angles on Bracket	-10 – 5°
Degree of Protection	NEMA 4 / IP65
Temperature Range	-22 – 140 °F
Vibrations	< 2 G
Norm Conformity	IEC 61000-6-2, IEC 61000-6-3, IEC 60950-1, IEC 60825-1, ISO 13849-1 Pl "d"/ CAT2, IEC 62061 SIL 2, IEC 61496-1 ESPE Type 2

PRODUCT SERIES



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