BEA ARCHITECTURAL SPECIFICATION SHEET
Automatic and Industrial Door Solutions: LZR-microscan

Product Specifications

UL listed power door sensor system capable of providing presence detection that exceeds the requirements of ANSI156.10 (8.2.2.3) on swing doors. The door mounted presence sensor system shall detect stationary humans or equivalent within the sensing pattern. The sensor shall utilize distance-measuring time of flight technology and have a self-adapting pattern that is background independent. The system shall require no learn time due to changes in background reflectivity.

1. Listed to UL 325 as a supplementary entrapment protection device.
2. Presence sensor system shall be door-mounted only and device should not exceed 5.26 in. x 2.43 in. (13.36 cm x 6.17 cm) in size.
3. Utilizes time of flight technology to provide complete background independence.
4. Each sensor pattern shall be capable of being adjusted to no less than the width of the door panel to accommodate 24 in. to 48 in. (61 cm x 121.92 cm) door leaves.
5. System shall allow for independent stall feature in dual egress applications.
6. Sensor configuration and diagnostics to be provided at a centralized hub inside the door header. Only one hub shall be required per opening
7. Sensor shall utilize a transfer loop assembly connecting the hub to the sensors.
8. System shall utilize a hub to transfer/communicate with the automatic door control.

Note to specifier:

1. 10LZRmicroscan1u for single doors (does not include activation device)
2. 10LZRmicroscan2u for simultaneous pairs or dual egress doors (does not include activation device)

Product image and Application Photo

BEA Inc.
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Technical Specs:

Technology:	Laser Scanner, Time-of-Flight Measurement
Detection mode:	Presence
Maximum door width:	48 in (121.92 cm)
Mounting Height:	79 in. to 98 in. (200.66 cm x 248.92 cm) (measured from finished floor to sensor LED
Remission Factor:	> 2%
Angular Resolution:	2.56°
Test body (H×W×D):	28 in. × 12 in. × 8 in. (71.1 cm x 30.48 cm 20.32 cm) (according to UL325)
Emission Characteristics: IR laser:	Wavelength 905 nm; Maximum Output Pulse Power 35 W

Input:	2 Optocouplers (Galvanic Isolated, Polarity Free)
Test Input:	8 – 15 VDC
Temperature Range:	-13°F to 121°F (-25°C to 55°C)
Degree of Protection:	Hub: IP20/NEMA 1 Sensor: IP53/NEMA 3
Humidity:	0 – 95% Non-condensing
Vibrations:	< 2 G
Material:	PC/ASA
Norm Conformity:	EN 60825-1-Eye-safety class 1 IR laser (905 nm), UL325, UL6730

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	(CLASS 1)
Supply Voltage:	12 – 30 VDC ± 10% (15 W Class II)
Power Consumption:	15 W maximum
Response Time:	Typ. 40 ms; Max. 80 ms
Output:	4 Electro-mechanic Relays (Polarity Free)

Mounting Angle (rotational):	35° fixed
Tilt Angle:	0° to 5° (for angles less than 5° contact Technical Support)
Pollution on Front Screens:	Maximum 30%; Homogenous

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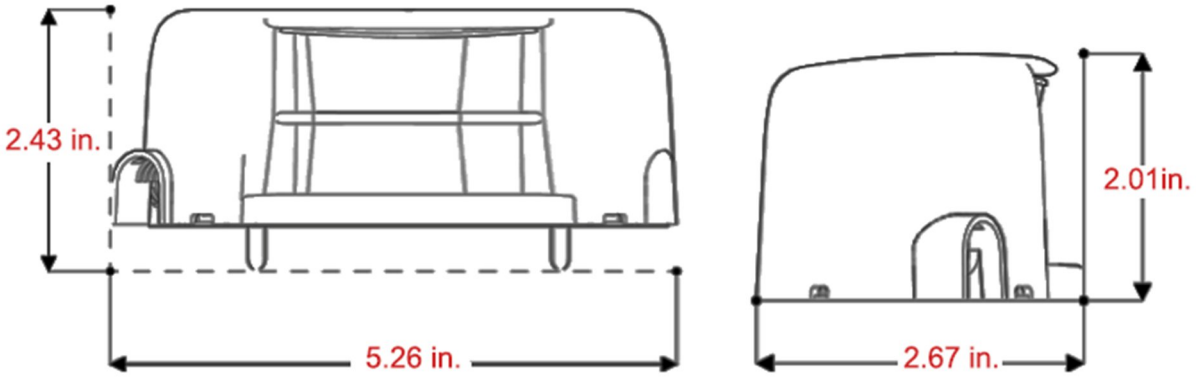
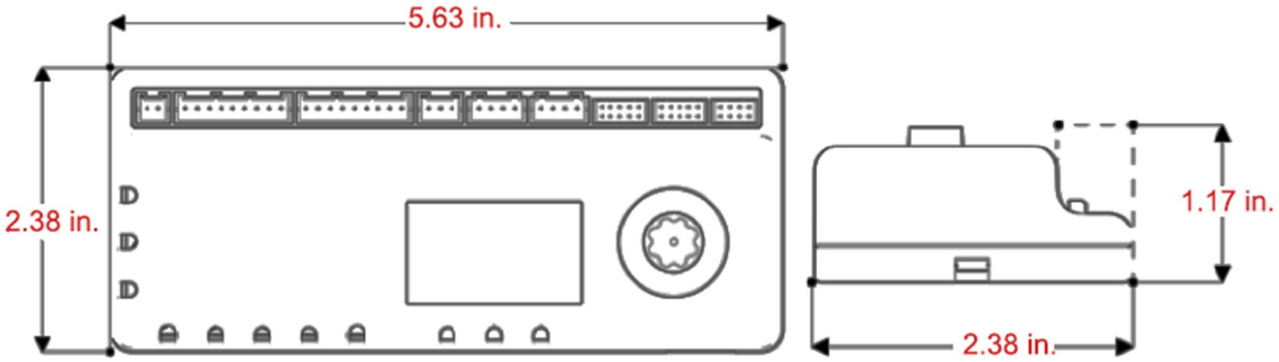
Sensor Dimensions:



Hub Dimensions:



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