NEMA 4 RATED, LASER SCANNER
COMPARISON

LZR®-H100

LASER scanner for gate & barrier applications

LZR®-I30

LASER scanner for industrial automation

LZR®-S600

LASER scanner for building automation & security

LZR®-WIDESCAN

Motion, presence & safety sensor for industrial doors

SOLUTION COMPARISON

	10LZRH100	10LZRI30	10LZRS600	10LZRWIDESCAN
PRIMARY APPLICATIONS				
	Gate & Barrier Presence Detection, Pedestrian Presence Detection, Gate & Barrier Activation	Automatic Industrial Door Presence Detection, Virtual Push Plate Activation, Gate & Barrier Presence Detection	Security Perimeter Detection, Warning Indication Light System, Large Industrial Door & Gate Activation, Platform Screen Door Activation, Track Monitoring	Automatic Industrial Door Activation, Pedestrian & Vehicle Presence Detection, Virtual Pull-Cord Activation, Cold Storage Environments, Dynamic Ground Conditions
TECHNICAL				
Detection Mode	Motion & Presence	Motion / Presence	Motion / Presence	Motion & Presence (object direction, speed, size and height)
Mounting Position & Height	Horizontal (left or right corner), Recommended at 40 cm (15 ¾")	Vertical (left or right corner), Max. height of 30'	Horizontal or Vertical (left or right corner), Max. height of 82'	Vertical (center or left corner), 6' 6" – 19' 6"
Max. Detection Range	9.6 m × 9.6 m (32' × 32')	360"× 360" (30' × 30')	984"× 984" (82' × 82')	Width: 1.2x mounting height Depth: 1.2x mounting height (adjustable depending on user settings)
Detection Field	4 curtains per sensor	4 curtains per sensor, curtain spread dependent on mounting height	4 curtains per sensor, curtain spread dependent on mounting height	7 curtains per sensor with volumetric detection pattern
Tilt Angle on Bracket	-3 – 3°	-3 – 3°	-3 – 3°	-3 – 3°
Temperature Range	-22 – 140 °F (-30 – 60 °C) if powered 14 – 140 °F (-25 – 60 °C) if unpowered	-22 – 140 °F (-30 – 60 °C) if powered 14 – 140 °F (-25 – 60 °C) if unpowered	-22 – 140 °F (-30 – 60 °C) if powered 14 – 140 °F (-25 – 60 °C) if unpowered	-22 – 140 °F (-30 – 60 °C) with built-in heating function
Supply Voltage	10 – 35 VDC @ sensor side	10 – 35 VDC @ sensor side	10 – 35 VDC @ sensor side	12 – 24 VAC ±10% 12 – 30 VDC ±10% @ sensor side

SOLUTION COMPARISON

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TECHNICAL				
Degree of Protection	NEMA 4 / IP65	NEMA 4 / IP65	NEMA 4 / IP65	NEMA 4 / IP65
Output	2 electronic relays (galvanic-isolated – polarity-free) 35 VDC / 24 VAC 80 mA (resistive)	2 electronic relays (galvanic isolated - polarity free) 35 VDC / 24 VAC 80 mA (resistive)	2 electronic relays (galvanic isolated - polarity free) 35 VDC / 24 VAC 80 mA (resistive)	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)
FUNCTIONALITY				
	Max. Presence Time, Detection Trajectory, Detection Delay, Safety Field Redirection, Output Configuration, Immunity, Magic Wand	Uncovered Zone; Immunity Filter, Min. Object Size, Output Activation Delay, Detection Field Redirection, Output Configuration	Uncovered Zone; Immunity Filter, Min. Object Size, Output Activation Delay, Detection Field Redirection, Output Configuration	Teach-in, Presettings, Service Mode, Factory Reset, Red Spots, Out 1 Functions, Out 2 Functions, Relay Function, Motion (width, depth, object type, direction, immunity, door zone off, invert field) Presence (width, depth, object type, max. presence time, immunity, door zone off, invert field) Safety (width, depth, max presence, immunity, uncovered zone, invert field)
USER INTERFACE				
	Universal Remote Control	Universal Remote Control	Universal Remote Control	Universal Remote Control, LCD menu

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