



# 2D 270° Navigation LR-1BS5-C1 Mini LiDAR Sensor



## Specification Table

Item	Unit	LR-1BS5-C1 Mini 2D 270°
Laser Wavelength	nm	905
Laser class		I (IEC 60825-1:2014)
Channels		1
Scanning angle	°	270
Scanning Frequency	Hz	10~25
Angular resolution	°	0.225
Measurement range	m	0.05~2@1.8% bw 0.05~8m@10% bw 0.05~25m@80% bw
Response time	ms	130ms@10Hz 100ms@15Hz(Max)
Distance Resolution	mm	1
Accuracy <sup>(1)</sup>	mm	Absolute Accuracy: <math>\lt; \pm 20\text{mm}</math> Repeate accuracy : <math>\lt; \pm 20\text{mm}</math>
Number of Bank fields		-
Ethernet Connection		100Mbps Ethernet
Protocol		UDP, TCP/IP
Signal strength		0-65535
Switching outputs	ea	1
Optical Indicators	types	RGBx4
Connection		5 cores cable with 5Pin M12 connector, Code A, Male 0.2m 4 cores cable with 4Pin M12 connector, Code D, Female 0.2m
Dimensions	mm	$\leq 60 \times 60 \times 92.4$ (cable not included)
Operating voltage	VDC	12~30
Power consumption	W	5
Weight	g	350
Degree of protection		IP66
Operating temperature	°C	-10~+50
Storage temperature	°C	-30~+70
Ambient light limit	LUX	<math>\lt; 120,000</math>
Air humidity	RH	<math>\lt; 95\%</math>
Mounting		Bottom Side or Back Side
EMC		IEC 61000-6-2:2016-08 / IEC 61000-6-3:2006-07
Vibration resistance		IEC 60068-2-6:2007
Shock resistance		IEC 60068-2-27:2008
Basic Software		OLAMViewer

(1) Technical data, such as measurement error and scan range, only guarantees a scan range of 0.5m or more at a target reflectance of 10% to 80%.

## Outline and Mounting

