



Long Range Laser Barcode Readers

BL-700 Series



ONLINE DATA SHEET

<http://www.keyence.com/products/barcode/barcode/bl700/bl700.php>

Specifications

Long Range Laser Barcode Readers (BL-700 Series) Specifications

Best in Class Performance with the Specifications to Back it Up.

For more details, download the [PRODUCT CATALOG](#) by clicking the [CATALOG](#) icon above.

BL-700 Series Long Range Laser Barcode Reader Specifications

Type	High-resolution		Middle-range		Long-range	
Model	BL-700	BL-701	BL-740	BL-741	BL-780	BL-781
Scanning method (1)	Single	Raster	Single	Raster	Single	Raster
Light source	Visible red semiconductor laser					
FDA class	Class II					
IEC class	Class 2					
Wavelength	650nm					
Maximum Output	1.4 mW		1.8 mW		2.0 mW	
Pulse width	FDA: 50µs, IEC: 91µs					
Reading distance (Narrow bar width =)	160 to 370 mm 6.30" to 14.57" (0.5 mm 0.02")		150 to 750 mm 5.91" to 29.53" (1.0 mm 0.04")		200 to 1200 mm 7.87" to 47.24" (2.0 mm 0.08")	
Readable bar width (2)	0.15 to 1.0 mm 0.006" to 0.04"		0.25 to 2.0 mm 0.01" to 0.08"		0.32 to 2.0 mm 0.01" to 0.08"	
Largest readable label width (3)	310 mm 12.20" (335 mm 13.19")		600 mm 23.62" (680 mm 26.77")		1010 mm 39.76" (1080 mm 42.52")	
Scanning rate	700 scans/sec					
Target codes	CODE39, ITF, INDUSTRIAL 2-of-5, COOP 2-of-5, Codabar, CODE 128, CODE 93, EAN/UPC (A · E)					
Number of readable digits	32 digits max. (4)					
Trigger input	Non-voltage input (contact or solid-state) TTL input is also possible.					
Serial interface	Applied standard					
	Conforms to RS-232C					
	Transmission code					
ASCII						
Baud rate						
600, 1,200, 2,400, 4,800, 9,600, 19,200, 31,250, 38,400 bps						
OK/NG output (form)	NPN					
Enclosure rating	IP-65					
Power supply	5 VDC ± 5 %					
Ambient light	Sunlight: 10,000 lux Incandescent lamp: 6,000 lux		Sunlight: 10,000 lux Incandescent lamp: 4,000 lux		Sunlight: 8,000 lux Incandescent lamp: 3,000 lux	
Ambient temperature	0 to +40°C (32 to 104°F), No condensation					

1. BL-701 raster width: 10 ± 1 mm (reading distance: 200 mm)
 BL-741 raster width: 20 ± 2 mm (reading distance: 300 mm)
 BL-781 raster width: 30 ± 3 mm (reading distance: 450 mm)

2. When the barcode type is CODE39.

3. Largest reading label width includes the barcode margin (quiet zone).

4. When start/stop character of CODE128 is CODE-C, up to 64 digits are allowed.

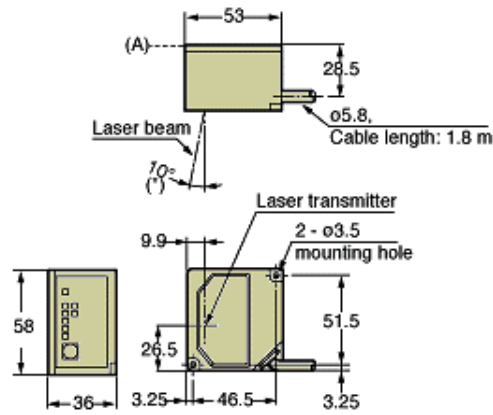
Dimensions

Long Range Laser Barcode Readers (BL-700 Series) Dimensions

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Unit:mm

BL-700/701/740/741/780/781 Barcode Reader



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