



# BL-1301HA

Ultra Small Digital Barcode Reader, High-resolution Type, Front Raster



\*Please note that accessories depicted in the image are for illustrative purposes only and may not be included with the product.

## Specifications

Model			BL-1301HA
Type			High-resolution type
Type	Reading direction		Front
	Scanning method		Raster
Laser	Light source		Visible semiconductor laser (wavelength: 660 nm)
	Control output		85 μW
	Pulse duration		112 μs
	Laser class		Class 2 Laser Product (IEC60825-1, FDA (CDRH) Part1040.10*1)
Reading	Supported codes		CODE39, ITF, Industrial2of5, Standard2of5, COOP2of5, CODABAR, CODE128, GS1-128, CODE93, UPC/EAN, GS1 DataBar
	Number of readable digits		74 digits (148 digits for CODE128 with start character C)
	Readable bar width		0.08 mm 0.003"
	Reading distance		45 to 270 mm 1.77" to 10.63"*2 (narrow bar width 0.5 mm 0.02")
	Focal point		90 mm 3.54"
	Largest readable label width		189 mm 7.44"*2 (distance: 189 mm 7.44", narrow bar width: 0.5 mm 0.02")
	PCS		0.4 or more
	Scanning rate		500 to 1,300 scans/sec. (in units of 100 scans)
I/O specifications	Input terminals	Number of inputs	2 (IN1 and IN2)
		Input format	No-voltage input
	Output terminals	Number of outputs	4 (OUT1, OUT2, OUT3, and OUT4)
		Output	NPN open collector
		Rated load	24 VDC, 30 mA
		Leakage current (at OFF)	0.1 mA or less
		Residual voltage (at ON)	0.5 V or less
	Serial interface	Communication method	Conforms to EIA RS-232C
		Communication speed	600, 1,200, 2,400, 4,800, 9,600, 19,200, 31,250, 38,400, 57,600, 115,200 bps
		Synchronization between the transmitter and receiver	Asynchronous
		Data bit length	7 or 8 bits
		Stop bit length	1 bit or 2 bits
		Parity check	None, odd, even
Rating	Power voltage		5 VDC ±5 %

Environmental resistance	Voltage consumption	400 mA or less
	Enclosure rating	IP65
	Ambient light	Sunlight: 10,000 lux, Incandescent lamp: 6,000 lux
	Ambient temperature	0 to +45 °C 32 to 113 °F
	Storage temperature	-20 to +60 °C -4 to 140 °F
	Relative humidity	35 to 85 % RH (No condensation)
	Operating environment	No dust or corrosive gases present
	Vibration resistance	10 to 55 Hz, Double amplitude 1.5 mm 0.06", 2 hours in each of the X, Y, and Z directions
Weight		Approx. 115 g

\*1 The laser classification for FDA (CDRH) is implemented based on IEC60825-1 in accordance with the requirements of Laser Notice.

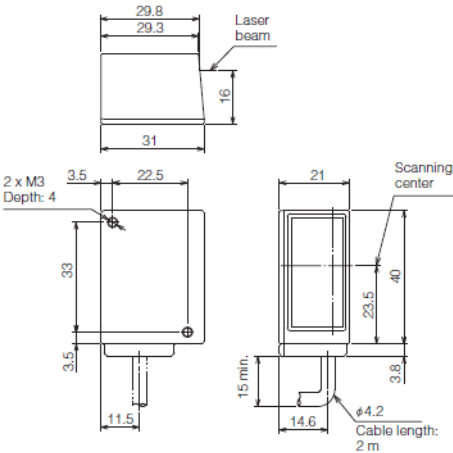
\*2 Specifications for 500-scan/second operation  
Use the Limited Power Source defined in UL/IEC60950-1 to comply with UL/IEC60950-1.  
Internal body settings are written in the internal memory area (can be rewritten 100,000 times).

Dimensions

\* Download CAD file or product manual for larger image/text and more detail.

BL-1300\_dimension\_01.gif

● Main unit (BL-1300/1301/1300HA/1301HA/1370/1371)



BL-1300\_frontscanning\_dimension\_01.gif

