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LJ-G5001

Controller

CE

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

Specifications

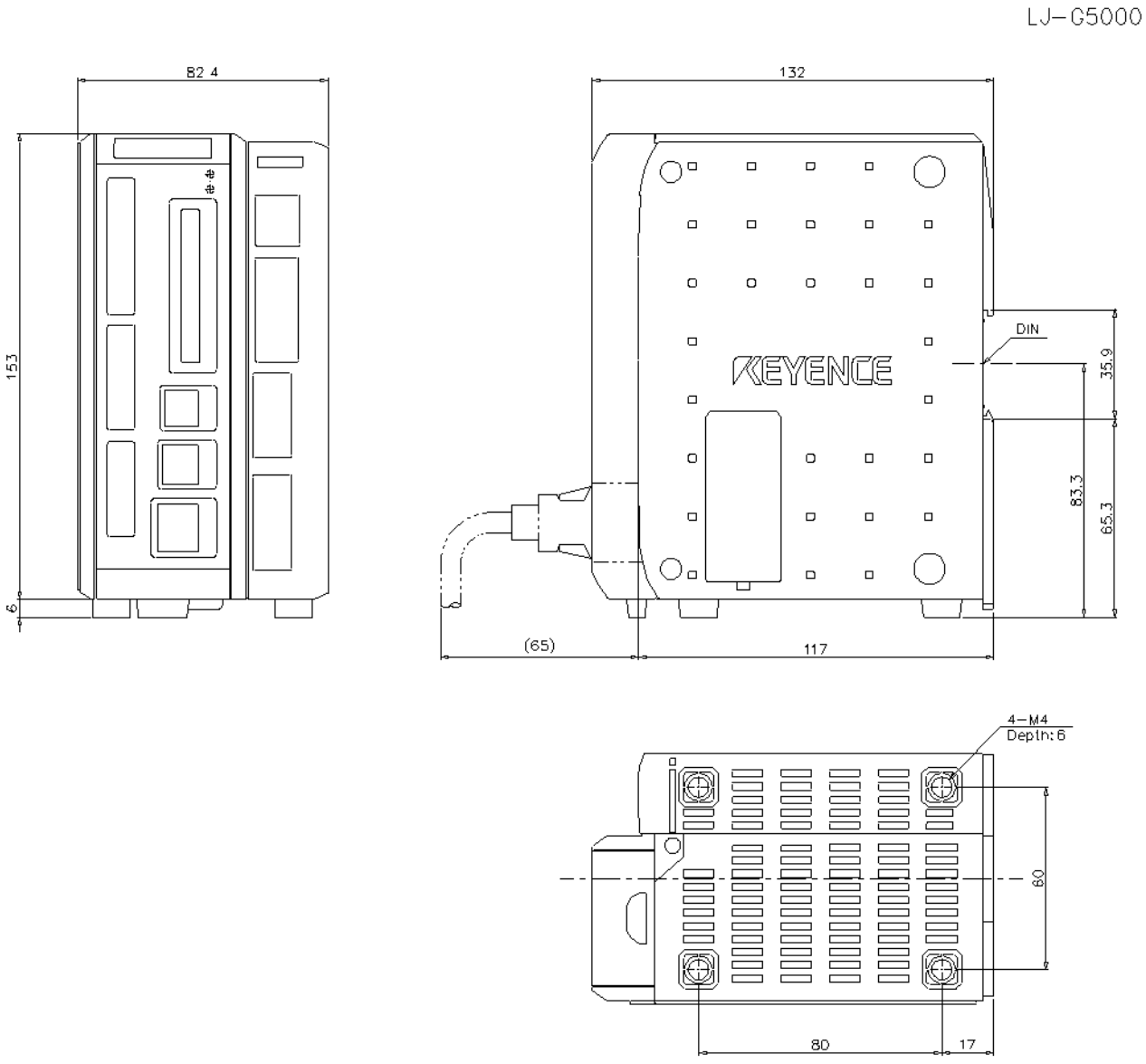
Model		LJ-G5001
Head compatibility		Measuring units are interchangeable without factory recalibration.
Number of connectable sensors		Maximum of 2 units
Display	Minimum display unit	0.1 μm *1, 0.001 mm2, 0.01° (Inch mode : 0.01 Mil, 0.00001 inch)
	Maximum display range	±99999.9 mm, ±999999 mm2, ±99999.9° (Inch mode : ±9999.99 Mil, ±999.999 inch)
Input terminal block	Laser remote interlock input	Non-voltage or voltage input *2.
	Trigger input	For sensor head A, non-voltage input
	Timing 1 input	Non-voltage input
	Auto-zero 1 input	
	Reset input	
Output terminal block	Analog voltage output	±10 V x 2 outputs, output impedance: 100 Ω
	Total judgment output	NPN open-collector output
	Error output	NPN open-collector output (N.C.)
	Process output	NPN open-collector output
	Trigger input enable output	For sensor head A, NPN open-collector output
	Adjusted error output	
Expansion connector	Timing 2 input	Non-voltage input
	Auto-zero 2 input	
	Trigger input	For sensor head B, non-voltage input
	Program switching input	Non-voltage input, 4 inputs
	Memory card save input	Non-voltage input
	Laser-Off input	For sensor head A/B, non-voltage input
	Judgment/Binary output	3-level judgment output: OUT1 to OUT8, total judgment output Binary output: OUT1 to OUT8 measured data output (21 bits) NPN open-collector output*3
	Strobe output	NPN open-collector output
	Trigger input enable output	For sensor head B, NPN open-collector output
	Adjusted error output	
Analog RGB monitor output		SVGA (800 × 600 pixels)
RS-232C interface		Measured data output and control input/output (Maximum baud rate: 115200 bps, selectable)
USB interface		Supports USB 2.0 Hi-Speed (compatible with USB 1.1 Full Speed)
Ethernet interface		100BASE-TX/10BASE-T*4
Memory card		Compatible with NR-M1G (1 GB). (with FAT32)
Major functions		Sensor heads calculation, Profile adjustment, Filter, Smoothing, Averaging, Position adjustment, OUT name change, Measurement mode selection

		(Height, position, gap, width, center position, section area, intersection, angle, profile comparison, profile tracking), Scaling, Average, Measurement, Measured value alarm, Tolerance setting, Auto-zero, Storage (data/profile), Memory card saving, Program memory, Trigger mode change, Mutual interference prevention, Measuring range change, Calibration, Laser light adjustment, Sampling time setting, Mask, Profile alarm setting, Inclination adjustment, Height adjustment, Display language switch, Setting support software connection, Trigger pitch/ Measuring time display, etc.
Rating	Power voltage	24 VDC ±10 %, Ripple (P-P) 10 % or less
	Current consumption	800 mA or less with 1 sensor head/1 A or less with two sensor heads
Environmental resistance	Ambient temperature	0 to +50 °C 32 to 122 °F
	Relative humidity	35 to 85 % RH (No condensation)
Weight		Approx. 1,050 g

*1 When LJ-G015 or LJ-G015K is connected only. When other sensor heads are connected, the minimum display unit is 1 µm.
*2 (NPN model) The rating of non-voltage input: 1 V or less ON voltage, 0.6 mA or less OFF current. (PNP model) The rating of voltage input: 10.2 V or more ON voltage (26.4 V max.) 0.6 mA or less OFFcurrent.
*3 Time-sharing output of judgment results or binary measured data.
The rating of the NPN open-collector output: 50 mA max. (30 V max.), residual voltage of 1 V max. The rating of the PNP open-collector output: 50 mA max. (30 V max.), residual voltage of 1 V max.
The rating of the non-voltage input: 1 V or less ON voltage, 0.6 mA or less OFF current (Trigger input terminal: 1 V or less ON voltage, 1.0 mA or less OFF current)
The rating of the voltage input: 26.4 V maximum rating, 10.8 V or less ON voltage, 0.6 mA or less OFF current (Trigger input terminal: 26.4 V maximum rating, 10.8 V or less ON voltage, 1.0 mA or less
OFF current)
*4 This is dedicated for connection with IV-series sensor.

Dimensions

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



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