LJ-V7001

Industrial automation components

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Manufacturer	Keyence
Catalog number	lj-v7001
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Brand	Keyence
Part Number	LJ-V7001
Product Type	2D Laser Profiler Controller
Number of Connectable Sensors	Up to 2 units
Minimum Displayable Unit	0.1 µm
Maximum Display Range	±9999.99 mm
Input Terminals	Laser remote interlock, Encoder, Trigger, Timing, Auto-zero, Reset, Start/Stop measurement, Start/Stop storage, Clear memory, Laser OFF, Program switch
Output Terminals	Analog voltage outputs (±10 V x 2), NPN open collector outputs (12 outputs), Strobe output, Disable trigger output, Memory FULL output, Ready output, Error output
Communication Interfaces	Ethernet (1000BASE-T/100BASE-TX), USB 2.0 high-speed compliant, RS232C
Power Supply	24 VDC ±10%
Current Consumption	1.3 A or less when connected to one head, 1.9 A or less when connected to two heads
Ambient Temperature Range	0 to +50 °C

Description

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The Keyence LJ-V7001 is a high-speed 2D laser profiler controller designed for precise inline profile measurement applications. It supports up to two connectable sensors, enabling versatile measurement configurations.

The controller offers a minimum displayable unit of 0.1 µm, ensuring high-resolution measurements, with a maximum display range of ±9999.99 mm. Input terminals include laser remote interlock, encoder, trigger, timing, auto-zero, reset, start/stop measurement, start/stop storage, clear memory, laser OFF, and program switch inputs.

Output terminals provide analog voltage outputs (±10 V x 2), NPN open collector outputs (12 outputs), strobe output, disable trigger output, memory FULL output, ready output, and error output. Communication interfaces include Ethernet (1000BASE-T/100BASE-TX), USB 2.0 high-speed compliant, and RS232C for measurement data output and control I/O.

The controller operates on a 24 VDC ±10% power supply and consumes 1.3 A or less when connected to one head, and 1.9 A or less when connected to two heads. It is designed to function within an ambient temperature range of 0 to +50 °C and relative humidity up to 85% RH (non-condensing). The approximate weight of the controller is 1,500 g.