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LK-G5001

Controller

CE

Specifications

Model		LK-G5001
Type		Separate type Main controller
Sensor head compatibility		Compatible
No. of connectable sensor heads		2
Display	Minimum display unit	0.001 µm
	Display range	±999.999 µm to ±9999.99 mm (7 settings selectable)
	Display cycle	Approx 10 times/sec.
Display interface	Display port	Either the display unit (LK-HD500) or dedicated touch panel (LK-HD1001) can be connected
	LED indicator	LASER ON
Terminal block	Analog output voltage	±10 V output, Output impedance: 100 Ω*1
	Analog current output	4 to 20 mA, Maximum load resistance: 350 Ω*1
	No. of analog outputs	2*1
	TIMING 1 input	Non-voltage input*2
	RESET 1 input	
	Auto-zero 1 input	
	Laser remote input	Non-voltage input*1
	Alarm output	NPN open-collector output*1
	General comparator output	
Expansion connector	TIMING input	Non-voltage input*1
	RESET input	
	Auto-zero input	
	Program switching input	
	Binary selection input	
	Alarm output	NPN open-collector output*1
	Comparator output	
	Binary output	
RS-232C interface		Baud rate: 9600 to 115200 bps Data length: 8 bits Stop bit length: 1 bit Parity: None/even/odd
USB interface		USB 2.0 Hi-Speed compliant*3
Ethernet interface		100Base-TX/10Base-T*4
EtherNet/IP™ interface		Cyclic communication (implicit messaging) Message communication (explicit messaging) : UCMM and Class3 Number of connections: 32 Complies with confor mance test version CT14*5
PLC-Link		The following PLCs are supported:Mitsubishi Electric: MELSEC iQ-R Series, iQ-F Series, Q Series, L Series, FX Ser ies EtherNet/IP™, CC-Link, and DeviceNet™ cannot be used in conjunction with PLC-Link
Head expansion unit connector		Up to 10 head expansion units can be connected to one main controller
Expansion unit connector		Either of the CC-Link unit (LK-CC100) or DeviceNet™ unit (LK-DN100) can be connected
Power supply	Power supply voltage	24 VDC ±10%
	Maximum current consumption	0.6 A or less with 1 head/3.5 A or less with 12 heads
Environmental resistance	Ambient temperature	When one or less head expansion unit is connected: 0 to +50 °C 32 to 122 °F. When two or more head expansion units are connected: 0 to +40 °C 32 to 104 °F.
	Relative humidity	35 to 85 % RH (No condensation)
Weight		Approx. 600 g

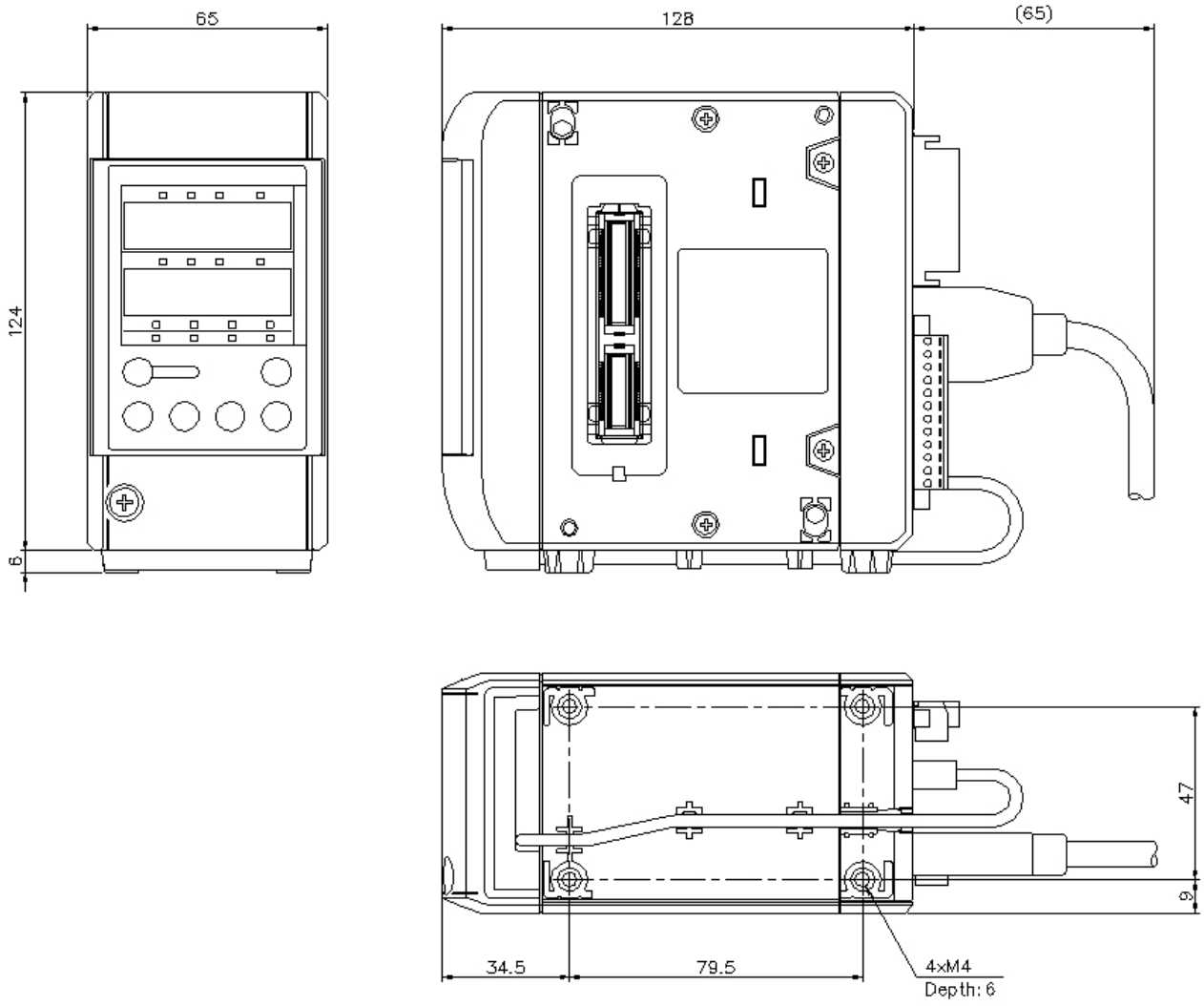
*1 NPN open-collector output rating: 50 mA max. (40 V max.), Residual voltage: 0.5 V max.
PNP open-collector output rating: 50 mA max. (30 V max.), Residual voltage: 0.5 V max.
Non-voltage input rating: ON voltage: 1 V max., OFF current: 0.6 mA max.
Voltage input rating: Maximum input rating: 26.4 V, ON voltage: 10.2 V, OFF current: 0.6 mA
Part of the input/output circuit of the LK-G5000 Series is internally common. Be careful that no potential difference is generated between the internally common terminals due to the potential difference between the cables/external devices. For details, refer to "Precautions on wiring" in the User's Manual.
*2 NPN open-collector output rating: 50 mA max. (40 V max.), Residual voltage: 0.5 V max.
PNP open-collector output rating: 50 mA max. (30 V max.), Residual voltage: 0.5 V max.
Non-voltage input rating: ON voltage: 1 V max., OFF current: 0.6 mA max.
Voltage input rating: Maximum input rating: 26.4 V, ON voltage: 10.2 V, OFF current: 0.6 mA
Part of the input/output circuit of the LK-G5000 Series is internally common. Be careful that no potential difference is generated between the internally common terminals due to the potential difference between the cables/external devices. For details, refer to "Precautions on wiring" in the User's Manual. This input is applied to all of the synchronized OUT.
*3 When a PC supporting USB 1.1 or USB 2.0 full speed is connected, the data refresh cycle and other operations may slow down.
*4 Use the Ethernet interface only for direct connections with a PC or for local network connections with a PC or LK-G5000 Series units.
*5 The EtherNet/IP™ interface cannot be used when a CC-Link unit or a DeviceNet™ unit is installed.
EtherNet/IP™ is supported by the latest controllers. For details on which controllers support EtherNet/IP™ , contact your nearest KEYENCE office.

Dimensions

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

LK-G5000

LK-G5000V



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