



## LK-G3001

Separate controller, NPN output



## SPECIFICATIONS

|                             |   |   |   |
|-----------------------------|---|---|---|
| Model                       | LK-G3001 <sup>*1</sup>  |   |   |
| Type                        | Separate monitor model <sup>*2</sup>  |   |   |
| Head compatibility          | All LK-G sensor heads are compatible  |   |   |
| Connectable number of heads | Maximum of 2 units  |   |   |
| Display                     | Minimum display unit  | 0.01 $\mu\text{m}$  |   |
|                             | Display range   | $\pm 9,999.99 \text{ mm}$ to $\pm 9,999.99 \mu\text{m}$ (Selectable from six levels)                          |   |
|                             | Display cycle   | 10 times/sec.   |   |
| Terminal block              | Analogue voltage output   | $\pm 10 \text{ V}$ x 2 outputs, output impedance: 100 $\Omega$  |   |
|                             | Analogue current output   | 4 to 20 mA x 2 outputs, maximum load resistance: 350 $\Omega$   |   |
|                             | Timing input  | For OUT1, non-voltage input   |   |
|                             | Reset input   |   |   |
|                             | Auto-zero input   |   |   |
|                             | Laser remote interlock input  |   | Non-voltage input   |
|                             | Comparator output   | For OUT1, NPN open-collector output   |   |
|                             | Alarm output  | For OUT1, NPN open-collector output (N.C.)  |   |
| Expansion connector         | Timing input  | For OUT2, non-voltage input   |   |
|                             | Reset input   |   |   |
|                             | Auto-zero input   |   |   |
|                             | Program switching input   | Non-voltage input x 3 inputs  |   |
|                             | Laser-Off input   | For Head A/Head B, non-voltage input  |   |
|                             | Comparator output   | For OUT2, NPN open-collector output   |   |
|                             | Alarm output  | For OUT2, NPN open-collector output (N.C.)  |   |
|                             | Binary  | Binary output   | Measured data output (21 bits), OUT1/OUT2 selectable, NPN open-collector output |
|                             |   | Strobe output   |   |
|                             |   | Binary selector output  | Non-voltage input   |
| Binary selector input       |   |   |   |
| RS-232C interface           | Measured data output and control input/output (Maximum baud rate: 115,200 bps, selectable)  |   |   |
| USB interface               | In conformity with USB Revision 2.0 Full speed (USB1.1 compatible)  |   |   |
| Major functions             | 2 OUT simultaneous measurement, Operation, Averaging, Filter, Calibration, Measurement, AUTO ZERO, Sampling frequency setting, Mutual interference prevention, Data storage, 8-program memory, ECO mode, ABLE setting, Target setting, ABLE tuning, Selection of measurement surface of transparent target, Statistics processing, Connection of setting support software, Selectable head-mounting, etc. |   |   |
| Rating                      | Power voltage   | 24 VDC $\pm 10 \%$ , Ripple (P-P) 10 % or less  |   |
|                             | Current consumption   | When connecting one measurement head 500 mA or less /<br>When connecting two measurement heads 600 mA or less |   |
| Environmental resistance    | Ambient temperature   | 0 to +50 °C   |   |
|                             | Relative humidity   | 35 to 85 % RH (No condensation)   |   |
| Weight                      | Approx. 370 g   |   |   |

<sup>\*1</sup> The rating of the NPN open-collector: 50 mA max. (40 V max.), residual voltage of 1 V max.  
The rating of non-voltage input: 1 V or less ON voltage, 0.6 mA or less OFF current.

<sup>\*2</sup> LK-G3001 can be operated singly. The measured value display and setting modifications can be performed on the display panel (LK-GD500) or via the setting support software (LK-H1W).

Dimensions

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

LK-G3000

