



**B.N.C.TOOLING Co.,Ltd.**

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## Vision Measuring Machine

### Laser Displacement Sensor

#### LK-G30

Model LK-G30  
Certificate CE



### Specification

| Model   |                      | LK-G30  |
|---|----------------------|---|
| Reference distance  |                      | 30 mm (Diffuse reflection), 23.5 mm (Specular reflection)   |
| Measuring range   |                      | ±5 mm (Diffuse reflection), ±4.5 mm (Specular reflection)   |
| Light source  | Type                 | Red semiconductor laser   |
|   | Wavelength           | 655nm (Visible light), Class 3R laser product (JIS C6802)   |
|   | Laser Class          | Class 3R (IEC 60825-1), Class IIIa (FDA CDRH Part 1040.10)  |
|   | Output               | 4.8 mW  |
| Spot diameter (at reference distance)   |                      | Approx. ø30 µm  |
| Linearity   |                      | ±0.05% of F.S. (F.S. = ±5 mm) <sup>*1</sup>   |
| Repeatability   |                      | 0.05 µm (0.01 µm) <sup>*2,3</sup>   |
| Sampling frequency  |                      | 20/50/100/200/500/1,000 µs (Selectable from 6 levels)   |
| LED display   |                      | Near the centre of the measurement: Green lights<br>Within the measurement area: Orange lights<br>Outside the measurement area: Orange flashing |
| Temperature characteristics   |                      | 0.01 % of F.S./°C (F.S. = ±5 mm)  |
| Environmental resistance  | Enclosure rating     | IP67 (IEC60529)   |
|   | Ambient light        | Incandescent lamp or Fluorescent lamp: 10,000 lux max.  |
|   | Ambient temperature  | 0 to +50 °C   |
|   | Relative humidity    | 35 to 85 % RH (No condensation)   |
|   | Vibration resistance | 10 to 55 Hz, Double amplitude 1.5 mm, 2 hours in each of the X, Y, and Z directions   |
| Material  |                      | Aluminium die-cast  |
| Weight  |                      | Approx. 280 g (including the cable)   |
| <sup>*1</sup> This value was taken when measuring a KEYENCE standard target (ceramic) in standard mode.<br><sup>*2</sup> Consult your nearest KEYENCE representative for the Class IIIa type with increased repeatability.<br><sup>*3</sup> These values were taken when measuring a KEYENCE standard target (SUS) at a reference distance and with the number of averaging measurements set to 4,096 |                      |   |