

# TS-C Series Chromatic Confocal Displacement Sensor



## TS-C100B Product Parameter



|                                  |                  |
|----------------------------------|------------------|
| Reference Distance <sup>*1</sup> | 8 mm             |
| Measurement Range                | ±0.05 mm         |
| Measurement Angle <sup>*2</sup>  | ±46.5°           |
| Spot Diameter <sup>*3</sup>      | Φ2.7/5.4/43.2 μm |
| Repeatability <sup>*4</sup>      | 3 nm             |
| Linear Error <sup>*5</sup>       | < ±0.03 μm       |
| Outer Diameter*Length            | φ40*111.5 mm     |
| Weight                           | 256 g            |
| Minimum Measurable Thickness     | 5% of F.S.       |
| Temperature Characteristics      | <0.03% F.S./°C   |
| IP Grade                         | IP40             |

\*1 Calculated from the center position of the measurement range;

\*2 Tilt test using standard flat mirror at 1kHz sample frequency;

\*3 Measurement of sharp glass edges, verified with a sub-micron positioning accuracy motion platform and laser interferometer as the displacement reference, the spot diameter values correspond to the diameters of small spot/large spot/four-spot pattern;

\*4 Measurement of standard silver-coated mirror, 1kHz without averaging, root mean square deviation of 10,000 continuous data sets;

\*5 Calibration verification using high-precision nanoscale laser interferometer.

## TS-C100B Product Dimension Drawing

