

TS-C Series Chromatic Confocal Displacement Sensor



TS-C20000 Product Parameter



Reference Distance ^{*1}	60 mm
Measurement Range	±10 mm
Measurement Angle ^{*2}	±10.5°
Spot Diameter ^{*3}	Φ25/50/400 μm
Repeatability ^{*4}	290 nm
Linear Error ^{*5}	< ±2 μm
Outer Diameter*Length	φ36*163 mm
Weight	310 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-C20000 Product Dimension Drawing

