

## confocalDT IFS2404-2 Confocal chromatic sensor

- Precise distance measurements
- Compact sensor design
- OEM sensor



Model	IFS2404-2	
Measuring range	2 mm	
Start of measuring range	approx.	14 mm
Resolution <sup>1)</sup>	40 nm	
Light spot diameter	10 $\mu$ m	
Linearity (displacement and distance measurement)	$\leq \pm 1 \mu$ m	
Linearity (thickness measurement)	$\leq \pm 2 \mu$ m	
Max. tilt <sup>2)</sup>	$\pm 12^\circ$	
Numerical aperture (NA)	0.25	
Temperature range	Operation	+5 ... +70 °C
	Storage	-20 ... +70 °C
Connection	pluggable sensor cable via FC socket with a 20 $\mu$ m core	
Shock (DIN-EN 60068-2-27)	15 g, 6 ms	
Vibration (DIN-EN 60068-2-6)	2 g / 10 Hz ... 500 Hz	
Protection class (DIN-EN 60529)	IP65, front operated	
Compatibility	compatible with all confocal controllers	
Weight	20 g	

All data at constant ambient temperature (25 $\pm$ 2 °C) against optical flat; specifications can change when measuring different materials.

<sup>1)</sup> Average from 512 values at 1 kHz, near to the midrange

<sup>2)</sup> Decreasing accuracy towards limit values and on reflecting surfaces

