

confocalDT IFS2404-2(001) Confocal chromatic sensor

- Precise distance measurements
- Compact sensor design
- OEM sensor



Model	IFS2404-2(001)	
Measuring range		2 mm
Start of measuring range	approx.	14 mm
Lateral resolution ¹⁾		40 nm
Light spot diameter		10 μ m
Linearity (displacement and distance measurement)		$\leq \pm 1 \mu$ m
Linearity (thickness measurement)		$\leq \pm 2 \mu$ m
Max. tilt ²⁾		$\pm 12^\circ$
Numerical aperture (NA)		0.25
Temperature range	Operation	-20 ... +70 $^\circ$ C
	Storage	+5 ... +70 $^\circ$ C
Connection	pluggable sensor cable via FC socket with a 50 μ 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		40 g

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

¹⁾ Average from 512 values at 1kHz, near to the midrange

²⁾ Decreasing accuracy towards limit values and on reflecting surfaces

