More Precision



confocalDT IFS2404-2 Confocal chromatic sensor

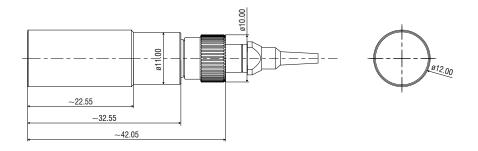
- Precise distance measurements
- Compact sensor design
- OEM sensor



Model		IFS2404-2
Measuring range		2 mm
Start of measuring range	approx.	14 mm
Resolution 1)		40 nm
Light spot diameter		10 <i>µ</i> m
Linearity (displacement and distance measurement)		≤± 1 <i>µ</i> m
Linearity (thickness measurement)		≤± 2 <i>µ</i> m
Max. tilt 2)		± 12°
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 μm 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±2 °C) against optical flat; specifications can change when measuring different materials.

²⁾ Decreasing accuracy towards limit values and on reflecting surfaces



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