

## confocalDT IFS2407/90-0,3 Compact, confocal 90° sensor

Precise displacement & roughness measurement



Sensor model	IFS2407/90-0,3	
Measuring range	0.3mm	
Start of measuring range	approx.	5.3mm
Spot diameter	6μm	
Linearity (displacement and distance measurement)	±0.15μm	
	±0.05% FSO	
Linearity (thickness measurement)	±0.3μm	
	±0.1% FSO	
Resolution <sup>1)</sup>	10nm	
Weight (without cable)	30g	
Max. tilt <sup>2)</sup>	±27°	
Protection class	IP65 (front side)	
Operation temperature	+5°C ... +70°C	
Storage temperature	-20°C ... +70°C	
Sensor cable C2404 (optical fiber)	length: standard 2m; option up to 50m; bending radius: static 30mm; dynamic 40mm	
Shock	15g, 6ms	
Vibration	2g / 10Hz ... 500Hz	

FSO = Full Scale Output; All data based on measurements at constant ambient temperature (25±2°C) against optical flat; specifications can change when measuring different materials.

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

<sup>2)</sup> Maximum sensor tilt angle that produces a usable signal, near to the midrange

