More Precision



Precise, confocal sensor with large working distance confocalDT IFS2405-28

The confocal sensors of the IFS2405 series are designed for measurement tasks where high accuracy is required. The IFS2405-28 stands out due to a large offset distance of 220mm from the target. The sensor is used when a large distance from the measurement object is required, e.g. with measurements of hot surfaces. The IFS2405 series provides high sensitivity and is used for distance measurements and one-sided thickness measurements of transparent film, layers and glass.



Sensor model	IFS 2405-28
Measuring range	28mm
Start of measuring range approx.	220mm
Light spot diameter	60µm
Linearity (displacement and distance measurement)	±0.025% FSO
Linearity (thickness measurement)	0.05% FSO
Resolution 1)	250nm
Weight (without cable)	0.75kg
Max. tilt ²⁾	$\pm 5^{\circ}$
Outer diameter	62mm
Protection class	IP40 / IP65 (front)
Operating temperature	+5 +70°C
Storage temperature	-20 °C +70°C
Sensor cable (fibre optic cable)	length: standard 3m; option up to 50m; bending radius: static 30mm; dynamic 40mm
Shock	15g, 6ms
Vibration	2g / 10Hz 500Hz

FSO = Full Scale Output

All data at constant ambient temperature (25±2°C) against optical flat;

specifications can change when measuring different materials.

¹⁾ Average from 512 values at 1kHz, near to the centre of the measuring range ²⁾ Maximum sensor tilt angle that produces a usable signal, near to the centre of the measuring range



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