## More Precision



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

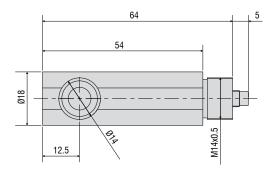
Precise displacement & roughness measurement

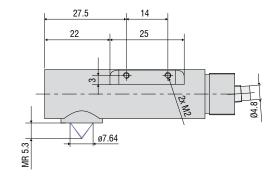


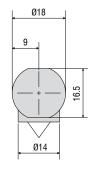
Sensor model	IFS2407/90-0,3
Measuring range	0.3mm
Start of measuring range approx.	5.3mm
Spot diameter	6µm
Linearity (displacement and distance measurement)	±0.15µm
	±0.05% FSO
Linearity (thickness measurement)	±0.3µm
	±0.1% FSO
Resolution 1)	10nm
Weight (without cable)	30g
Max. tilt <sup>2)</sup>	±27°
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

 $FSO = Full \ Scale \ Output; \ All \ data \ based \ on \ measurements \ at \ constant \ ambient \ temperature \ (25\pm2^{\circ}C) \ against \ optical \ flat; \ specifications \ can \ change \ when \ measuring \ different \ materials.$ 

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







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