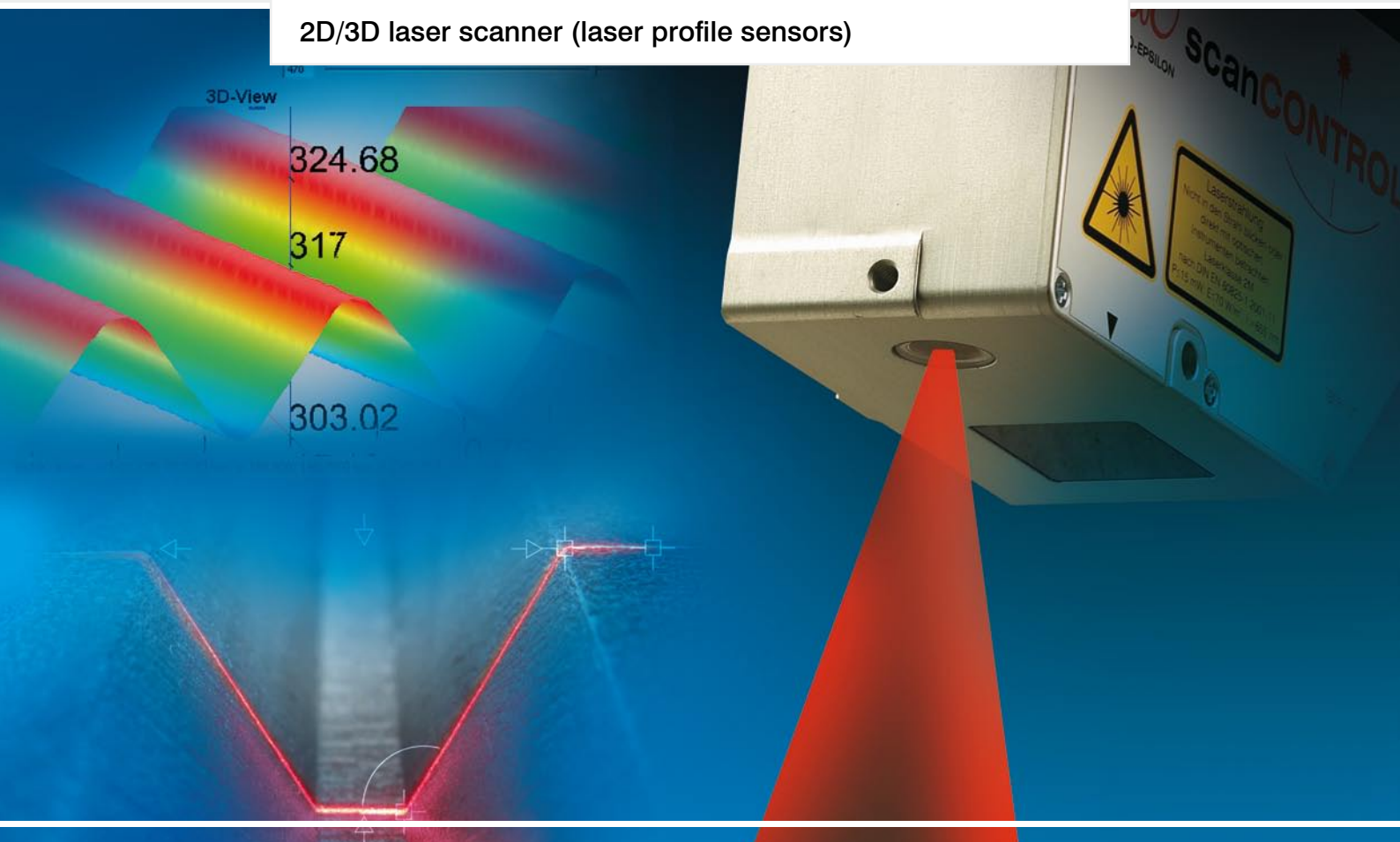


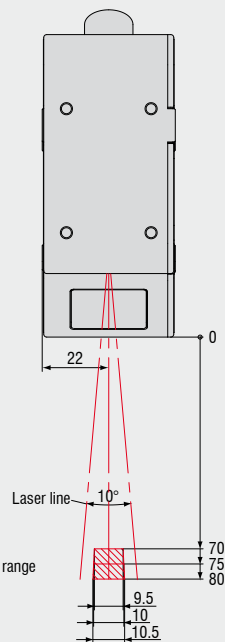
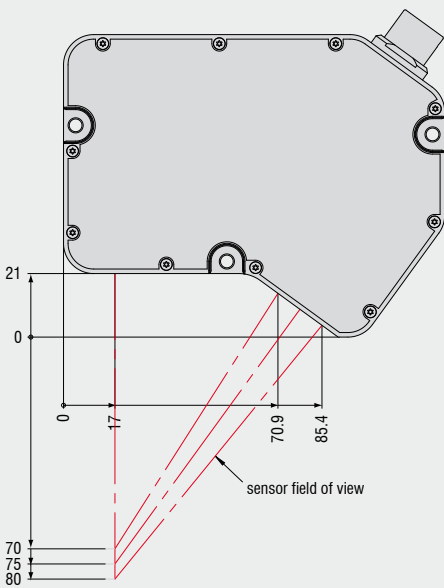
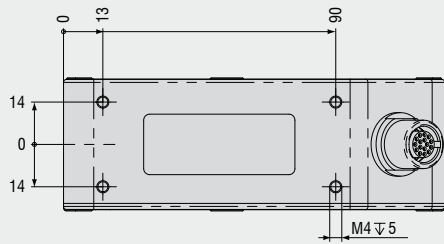
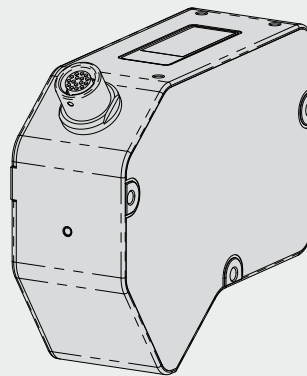
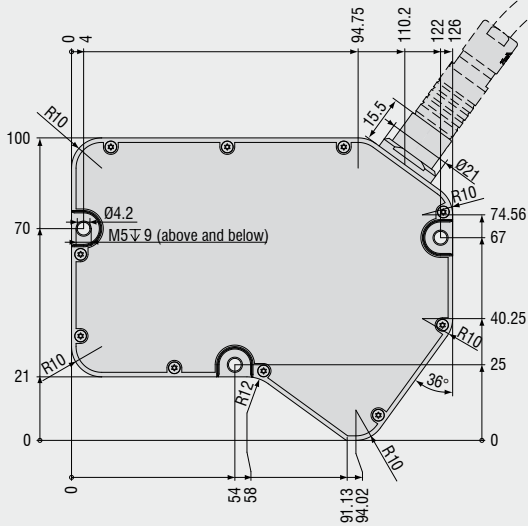
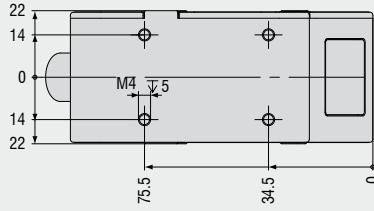
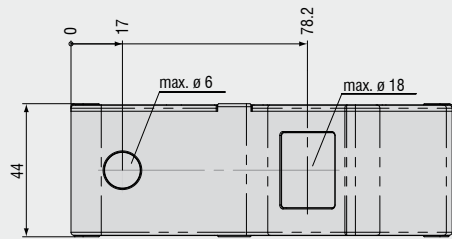


# More Precision.

## **scanCONTROL**

2D/3D laser scanner (laser profile sensors)





Standard measuring range

Model		scanCONTROL	HIGHSPEED 2800-10	SMART 2810-10
z-axis (height)	Standard measuring range 10mm	Start of measuring range	70mm	
		Midrange	75mm	
		End of measuring range	80mm	
	Linearity <sup>1)</sup>	±0.3% FSO (3sigma)	±30µm	
	Resolution	0.04% FSO	10µm	
	Reference resolution <sup>2) 3)</sup>	2µm		
x-axis (width)	Standard measuring range	Start of measuring range	9.5mm	
		Midrange	10mm	
		End of measuring range	10.5mm	
	Point distance	Midrange	9.8µm	
	Resolution x-axis	1,024 points/profile		
Profile frequency		4,000 Hz		
Measurement rate		256,000 points/sec		
<b>Interfaces profile data</b>	FireWire		■	■
	RS232		■	■
	RS422		■	■
	Trigger HTL/TTL		■	■
	Counter (encoder)		■	■
<b>Signal output SMART</b>	RS232			■
	RS422			■
	Analogue			■
	Switching signal			■
Display (LED)		1x laser, 1x power/error/control, 2x mode		
Protection class	Sensor		IP 64	
	Controller		IP 40	
Operating temperature		0°C up to 50°C		
Storage temperature		-20°C up to 70°C		
Cable length		up to 10m		
Weight	Sensor		appr. 560g	
	Controller		appr. 3.5kg	
Galvanic isolation		All interfaces are galvanically isolated		
Vibration		2g / 20 ... 500Hz		
Shock		15g / 6ms		
Supply		20-27 VDC, 500mA		
Light source		semiconductor laser 655nm		
Aperture angle laser line		10°		
Laser power		7mW (class 2M)		
Laser off		via software and external contact		
Permissible ambient light (fluorescent light) <sup>2)</sup>		10,000lx		

<sup>1)</sup> Standard measuring range

<sup>2)</sup> Measuring object: Micro-Epsilon standard object (metallic, diffusely reflecting material)

<sup>3)</sup> According to a one-time averaging across the measuring field (1024 points)

FSO = Full scale output

## High performance sensors made by Micro-Epsilon



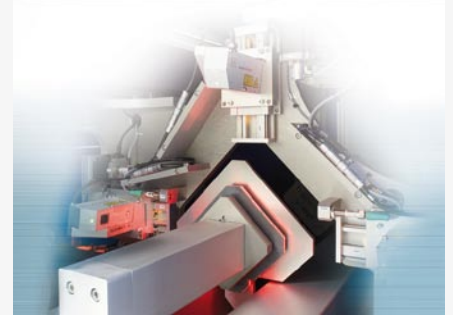
### Sensors and systems for displacement, position and dimension

Eddy current sensors  
Optical and laser sensors  
Capacitive sensors  
Inductive sensors  
Draw-wire sensors  
Optical micrometers  
2D/3D profile sensors  
Image processing



### Sensors and measurement devices for non-contact temperature sensors

Thermal imager  
Online instruments  
Handheld devices



### Measuring systems for quality control

Plastic and film  
Tyre and rubber  
Web material  
Automotive components  
Glass and panes