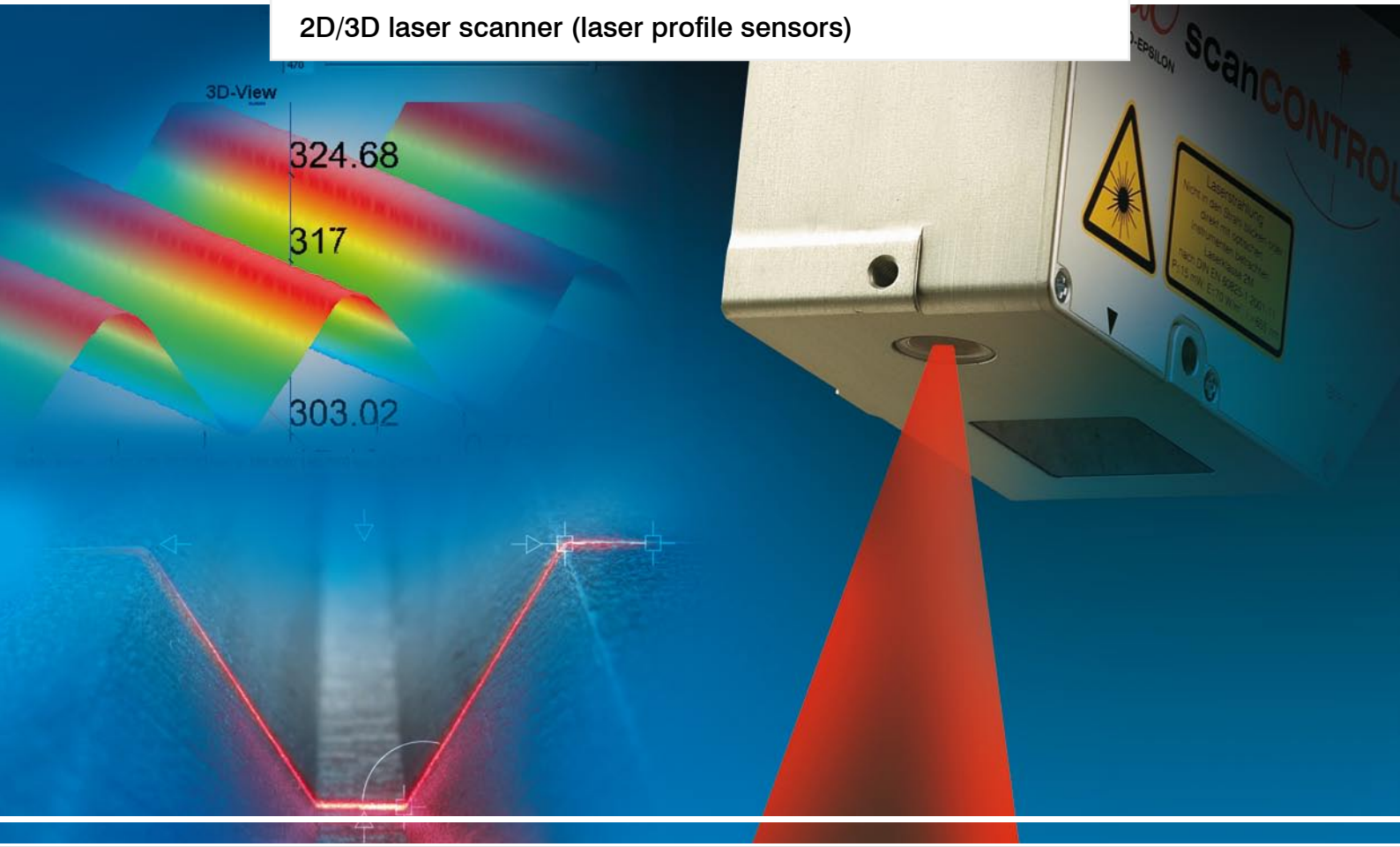
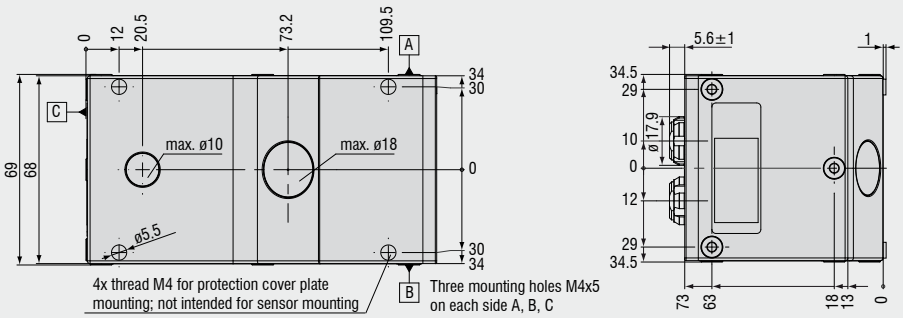
MICRO-EPSILON

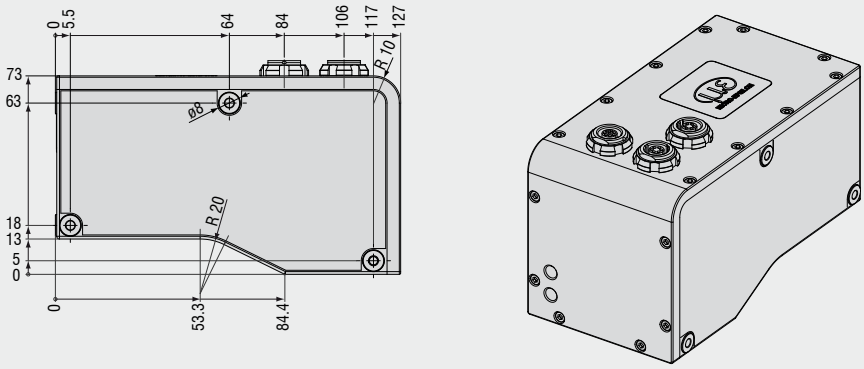
More Precision.

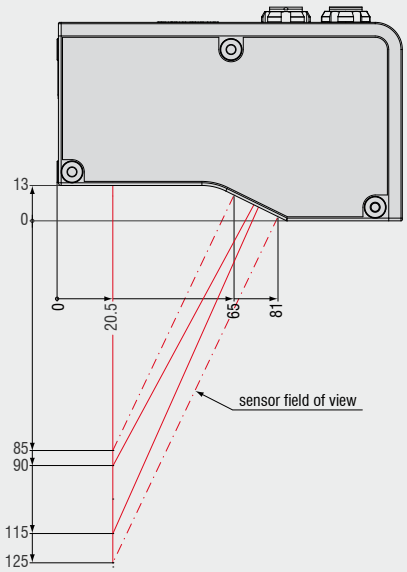
scanCONTROL

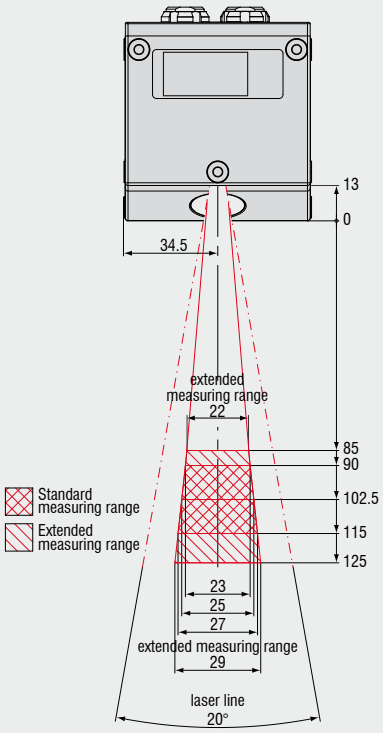
2D/3D laser scanner (laser profile sensors)




0
12
20.5
73.2
109.5
A
34
30
C
max. ø10
max. ø18
0
69
68
ø5.5
30
34
4x thread M4 for protection cover plate mounting; not intended for sensor mounting
B
Three mounting holes M4x5 on each side A, B, C
5.6±1
1
34.5
29
10
ø17.9
0
12
29
34.5
73
63
18
13
0


0
5.5
64
84
106
117
127
R 10
73
63
ø8
R 20
18
13
5
0
0
53.3
84.4


13
0
0
20.5
65
81
sensor field of view
85
90
115
125


13
0
34.5
extended measuring range
22
85
90
102.5
115
125
Standard measuring range
Extended measuring range
23
25
27
extended measuring range
29
laser line
20°

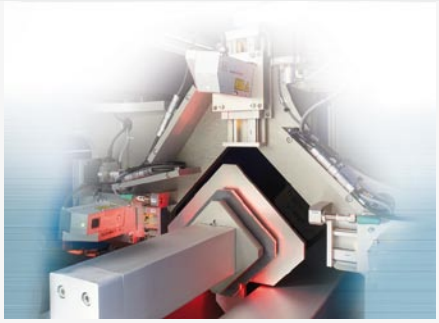
			COMPACT	*HIGHSPEED*	*SMART*
	Model	scanCONTROL	2700-25	2750-25	2710-25
z-axis (height)	Standard measuring range 25mm	Start of measuring range	90mm		
		Midrange	102.5mm		
		End of measuring range	115mm		
	Extended measuring range 40mm	Start of measuring range	85mm		
		End of measuring range	125mm		
	Linearity [1]	±0.2% FSO (3sigma)	±50µm		
	Resolution	0.04% FSO	10µm		
	Reference resolution [2] [3]		4µm		
x-axis (width)	Standard measuring range	Start of measuring range	23mm		
		Midrange	25mm		
		End of measuring range	27mm		
	Extended measuring range	Start of measuring range	22mm		
		End of measuring range	29mm		
	Point distance	Midrange	40µm		
	Resolution x-axis		640 points/profile		
	Profile frequency		100Hz	2,000Hz	100Hz
	Measurement rate		64,000 points/sec	1,28 mio points/sec	-
	Interfaces profile data	FireWire	■	■	■
		Ethernet	■	■	■
		RS422 [4]	■	■	■
		Trigger [4]	■	■	■
		Counter (encoder) [4]	■	■	
	Signal output SMART	RS422 [4]			■
		Analogue [5]			■
		Switching signal [5]			■
	Display (LED)		1x laser, 1x power/error/status		
	Protection class		IP 64		
	Operating temperature		0°C up to 50°C		
	Storage temperature		-20°C up to 70°C		
	Cable length		up to 20m		
		Ethernet with Switch FireWire with HUB	up to 50m		
	Weight		appr. 700g		
	Galvanic isolation		Only at RS422, no isolation of 24V-supply, internal circuit and FireWire bus. If isolation necessary, external 24V-DC-DC-converter required		
	Vibration		2g / 20 ... 500Hz		
	Shock		15g / 6ms		
	Supply		8-30 VDC, 500mA		
	Light source		semiconductor laser 658nm		
	Aperture angle laser line		20°		
	Laser power	standard	10mW (class 2M)		
		optional	20mW (class 3B)		
	Laser off		via software (standard) / via external contact (optional)		
	Permissible ambient light (fluorescent light) [2]		10,000lx		

[1] Standard measuring range
[2] Measuring object: Micro-Epsilon standard object (metallic, diffusely reflecting material)
[3] According to a one-time averaging across the measuring field (640 points)
[4] Programmable as serial interface or synchronisation input or encoder input
[5] Only with Output Unit
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

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