

Preliminary – specifications subject to change

CHRcodile C

The ultra compact CHRcodile C sensor with its robust and integrated design offers high precision distance and thickness measurements.

CHRcodile C is specially suited for industrial inline use and easily integrable into any kind of inspection machine.

The extraordinary high dynamic range and the outstanding signal-to-noise ratio of the CHRcodile sensors ensure the best measuring results on any kind of surfaces.

Thanks to its compact dimensions and excellent performance/price ratio, CHRcodile C is the ideal alternative to classical laser triangulation sensors.

CHRcodile
if time matters...



EFFICIENT

- Compact design
- Low weight
- Low energy consumption

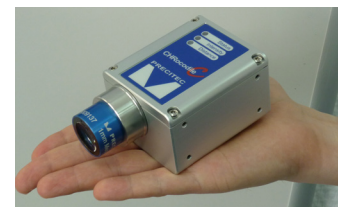
VERSATILE

- Distance and thickness
- Works on all materials
- Interchangeable probes

USER-FRIENDLY AND SAFE

- Maintenance-free
- Simple to integrate
- Non-contact

EXCELLENT PRICE/PERFORMANCE RATIO



THICKNESS

DISTANCE

TOPOGRAPHY

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TECHNICAL SPECIFICATIONS OF CHROCODILE C

application	distance, thickness
measurements / second	up to 4000
synchronization with external devices	trigger input, synchronizing output
interface	Ethernet, RS422, external analogue converter box as accessory
transfer rate	Ethernet (100 Mbit); RS-422 (9600 - 921600 Baud)
light source	LED
protection class	IP50
operating temperature	0°C bis +50°C
storage temperature	-20°C to 70°C
dimension (l x w x h)	99 mm x 65 mm x 47 mm (without probe)
weight	400 g
supply voltage	24 V
rated power	4 W
SDK	DLL written in C, C++; SDK written in C# with .NET framework 4
order number	5009276

TECHNICAL SPECIFICATIONS OF OPTICAL PROBES

	probe 200 µm	probe 1 mm	probe 4 mm	probe 10 mm
measuring range	200 µm	1 mm	4 mm	10 mm
working distance ¹⁾	4.5 mm	14 mm	32 mm	60 mm
spot diameter	3.4 µm	5 µm	8 µm	16 µm
lateral resolution	1.7 µm	2.5 µm	4 µm	8 µm
axial resolution	10 nm	50 nm	200 nm	500 nm
accuracy ²⁾	60 nm	300 nm	1.2 µm	3 µm
measurement angle to surface ³⁾	90 +/-45°	90 +/-28°	90 +/-20°	90 +/-14°
thickness measuring range ⁴⁾	up to 0.3 mm	up to 1.5 mm	up to 6 mm	up to 15 mm
order number	5009278	5009279	5009280	5009281

¹⁾bottom of optical probe to middle of measuring range | ²⁾measurement on perpendicular mirror at 20° C | ³⁾decreasing accuracy on the limits | ⁴⁾refractive index n = 1.5

The given data was generated for a typical application and may be different given other circumstances. Furthermore misprints, changes and/or innovations may lead to differences in the listed measurements, technical data and features. Therefore all information is non-binding and technical data, measurements as well as features are not guaranteed by information in this product information. Apr 2016