

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.



EFFICIENT

- Compact design
- Low weight
- Low energy consumption

VERSATILE

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

USER-FRIENDLY AND SAFE

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

EXCELLENT PRICE/PERFORMANCE RATIO



PRECITEC OPTRONIK THE SMART WAY TO MEASURE

TECHNICAL SPECIFICATIONS OF CHROCODILE C

application	distance, thickness
measurements / second	up to 4000
synchronization with external devices	trigger input, synchronizing output
interface	Ethernet, RS-422, RS-232, external analogue converter box as accessory
transfer rate	Ethernet (100 Mbit); RS-422, RS-232 (9600 - 1843200 Baud)
light source	LED
protection class	IP50
operating temperature	0°C to + 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 (without probe)	430 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
accessories	extension box for synchronization with external devices (order number 5009932)

TECHNICAL SPECIFICATIONS OF OPTICAL PROBES

	probe 200 μ m	probe 1 mm	probe 4 mm	probe 10 mm
measuring range	200 μ m	1 mm	4 mm	10 mm
working distance ¹⁾ [mm]	4.7 +/- 0.3	15.7 +/- 0.5	36.7 +/- 0.7	68.7 +/- 1
spot diameter	3.4 μ m	5 μ m	8 μ m	16 μ m
lateral resolution	1.7 μ m	2.5 μ m	4 μ m	8 μ m
axial resolution	8 nm	40 nm	160 nm	400 nm
linearity ²⁾	150 nm	400 nm	1.6 μ m	4 μ m
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
weight	41 g	31 g	57 g	86 g
dimensions (outside) [mm]	d = 28, l = 23.7	d = 28, l = 17	d = 34, l = 26.6	d = 40, l = 35.3
order number	5009278	5009279	5009280	5009281

¹⁾ bottom of optical probe to middle of measuring range | ²⁾ perpendicular measurement on mirror at 20° C | ³⁾ decreasing linearity 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. FEB 2017