



CHROCODILE 2 K

Quality control via optical inspection



The optical sensor CHROcodile 2 K works with infrared light and has been optimized for the non-contact measurement of plastic products. On a variety of measurement objects such as plastic films, extruded blown films, preforms, PET bottles, blisters or balloons, the robust measurement method provides excellent results, inline and offline.

The compact optical probe enables one-sided measurements and can be integrated into even small spaces in production environments.

The extraordinarily high dynamic response and the outstanding signal-to-noise ratio of the CHROcodile sensor ensures the best measuring results.

DISTANCE

THICKNESS

TOPOGRAPHY

EFFICIENT

- ▶ Non-contact
- ▶ Fast
- ▶ Precise

VERSATILE

- ▶ One-sided measurements
- ▶ Measuring range optimized for plastics
- ▶ High lateral resolution
- ▶ Distance / topography measurement (optional)
- ▶ Inline and offline applications

USER-FRIENDLY & SAFE

- ▶ Simple to integrate
- ▶ Nondestructive measurement
- ▶ Pilot laser
- ▶ Wide measuring distance tolerance range



TECHNICAL SPECIFICATIONS OF CHROCODILE 2 K

| measured value | distance, thickness |
|---|--|
| measuring rate | up to 4,000 Hz |
| interferometric measuring range ¹⁾ | 15 µm - 1500 µm |
| linearity ²⁾ | < 6.6 x 10 ⁻⁴ x upper measuring range limit |
| resolution | 3 x 10 ⁻⁶ x upper measuring range limit |
| number of measuring channels | 1 |
| synchronization with external devices | trigger input, synchronizing output, 5 encoder inputs |
| interface | Ethernet, RS-422, 2 x analog (-10 V up to +10 V, 16 Bit) |
| transfer rate | 100 Mbit (Ethernet), up to 10 MBaud (RS-422) |
| light source | SLD |
| dimension (w x h x d) | 220 mm x 110 mm x 125 mm |
| weight | 1.8 kg |
| supply voltage | 16 - 30 V DC (with separate power supply 90 - 264 V AC) |
| rated power | 20 W |
| item number | 5100171 |

¹⁾ optical length | ²⁾ perpendicular measurement on mirror at 20°C

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.

Precitec 3D Metrology - measure more precisely with light.