

LED 8000 XY

**NON-CONTACT MEASURING DEVICE
FOR CABLE PRODUCTION LINES**

- Diameter gauge head with LED-light source



LED 8025 XY

SIKORA
Technology To Perfection

XY-gauge head for various cable types and cables with transparent insulation layer

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SIKORA makes the invisible visible. The newly developed LED 8025 XY fascinates in technology as well as design. As precursor of new measuring dimensions LED 8025 XY promises a reliable measurement of several cable types and those with a transparent insulation layer with highest precision. With this development SIKORA demonstrates new technological potentials for measuring technology on cable production lines.

The latest LED-diodes combined with high resolution CMOS-sensor lines create the foundations for a top class future-oriented measuring device. With the help of a powerful software the shadow width of the measuring object is calculated and the outer diameter precisely defined. Especially unique is the measurement of those cables which have a transparent insulation layer. Within this application field the LED 8025 XY also guarantees optimum reliability. The integration of state-of-the-art SMD technology ensures the gauge head is very small and can easily installed into any production line. The LED 8025 XY is designed for product diameters from 0.01 to 1 inch (0.25 to 25 mm).

The traditional strengths of measuring systems by SIKORA include maximum measuring precision, and long-life reliability. The gauge head is equipped with vertically arranged glass windows, which offer an efficient protection against dirt. Additionally, the LED 8025 XY is open at the bottom which prevents both dirt and water contaminating the measuring

area. The lack of wearing parts creates a unique freedom from maintenance. The LED 8025 XY flexible design ensures an unrivalled process optimization and cost reduction.



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Several interfaces

The LED 8025 XY is equipped with a RS 485 serial interface and RS 232 diagnostic interface for the direct connection of a line control system or SIKORA's control devices REMOTE 2000 or ECOCONTROL 600, 1000 and 2000. Optionally, it also offers an Ethernet RJ45, Profibus interface or even an analog output.

TECHNICAL DATA LED 8025 XY

Measuring principle	Non-contact, optical with latest 2-axis-CMOS-sensor technology combined with pulse-driven LED-light sources	Interfaces	RS 485 + RS 232 Diagnostic-Interfaces, Ethernet, Profibus DP interface (option), Anybus-Modul, analog interface
Application	Any and especially cables with transparent insulation layers	Resolution	Selectable 0.04 mil, 0.012 mil (factory setting 0.04 mil) [Selectable 1 μm, 0.3 μm (factory setting 1 μm)]
Sight field	1.06" (27 mm)	Exposure time	40 μsec
Measuring range	0.01 to 1" (0.25 to 25 mm)	Dimensions	15.2 x 12.4 x 3.2" (width x height x depth) [385 x 316 x 81mm (width x height x depth)]
Accuracy	Diameter: 0.08 mil (2 μm)	Power supply	85 to 264 VAC (100 to 375 VDC), 47 to 400 Hz, 25 VA
Repeatability	0.02 mil (0.5 μm)	Ambient temperature	40 to 120 °F (+ 5 to + 50 °)
Measuring rate	500 Hz		

Technical data is subject to change

Fulfills the requirements of
DIN EN ISO 9001:20000



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