With the LUMP Series 2000, SIKORA offers a spectacular measuring technology for the detection of lumps and neckdowns in two or three measuring planes.

Non-conformity detection of a special kind

The core of the LUMP 2000 devices is the innovative double sensor technology, which detects irregularities on the product surface at any line speed.

LUMP 2000 XY (2-axis lump detector)

A powerful signal processor recognizes height, depth and length of a fault, digitally visualizes them and saves the data. The combination of double sensor technology (differential measuring principle) with infrared light sources enables the LUMP 2000 to reliably detect faults even under difficult conditions such as dirt or extremely high vibrations.

Model	LUMP 2010 XY	LUMP 2025 XY
Product Diameter	0,5 - 10 mm	0,5 - 25 mm
Min. Fault Length	0,5 mm	0,5 mm
Speed Range	1 to 3,000 m/min	1 to 3,000 m/min
Dimensions (H x W x D)	140 x 140 x 55 mm	258 x 218 x 70 mm
Power Supply	100 - 240 V AC ± 10 %, 50/60 Hz	100 - 240 V AC ± 10 %, 50/60 Hz
Temperature Range	+ 5 to + 50°C	+ 5 to + 50°C
Interfaces	RS485, RS232 (diagnosis); Optional: analog input for lump/neckdown tolerance or alternatively industrial fieldbus, (Profinet IO, EtherNet/IP, Profibus-DP, CANopen, DeviceNet)	RS485, RS232 (diagnosis); Optional: analog input for lump/neckdown tolerance or alternatively industrial fieldbus, (Profinet IO, EtherNet/IP, Profibus-DP, CANopen, DeviceNet)

LUMP 2000 T (3-axis lump detector)

With their 3-axis monitoring, which guarantees 50 % more coverage of the product surface, the SIKORA LUMP 2000 T devices offer an even higher detection probability of lumps and neckdowns. These T models are therefore especially recommended for the detection of punctual faults.

Model	LUMP 2010 T*	LUMP 2035 T
Product Diameter**	0,25 - 10 mm	0,5 - 35 mm
Min. Fault Length	0,5 mm	0,5 mm
Speed Range	1 to 3,000 m/min	1 to 3,000 m/min
Dimensions (H x W x D)	250 x 150 x 62,5 mm	360 x 290 x 38,5 mm
Power Supply	100 - 240 V AC ± 10 %, 50/60 Hz	100 - 240 V AC ± 10 %, 50/60 Hz
Temperature Range	+ 5 to + 50 °C	+ 5 to + 50 °C
Interfaces	RS485, RS232 (diagnosis); Optional: analog input for lump/neckdown tolerance or alternatively industrial fieldbus, (Profinet IO, EtherNet/IP, Profibus-DP, CANopen, DeviceNet)	RS485, RS232 (diagnosis); Optional: analog input for lump/neckdown tolerance or alternatively industrial fieldbus, (Profinet IO, EtherNet/IP, Profibus-DP, CANopen, DeviceNet)

*Specifications of LUMP 2010 T for transparent materials are identical.
**For lump detection of diameters from 0,1 to 0,5 mm, please refer to our catalog for optical fiber measurement.

Your Benefits

- Double sensor and differential measuring principle
- Fault analysis for type, size, length and location
- Detectable lumps/neckdowns from 0.01 mm and a length from 0.5 mm
- Line speed from 10 to 3,000 m/min