



Optimum online monitoring of filament yarn means quality improvements and cost reductions in terms of less downgrades, less customer complaints and less costs for raw material, just to mention a few of the advantages which come with the implementation of an online monitoring system in the spinning plant.

With Lenzing Instruments' optical sensor **PROMPT OLO**, optimum process control of filament yarn is achieved, since both yarn defects as well as crucial yarn characteristics are monitored continuously with real time graphical and numerical feedback.

PROMPT OLO monitors multifilament yarn for broken filaments, fluff, diameter variation and interlace. Monofilament yarn is monitored for thin and thick places as well as for diameter variations.

Even the smallest defects are detected by **PROMPT OLO**, thereby enabling online monitoring of defects in applications, where this was not possible before due to sensor limitations.

If the sensor width is crucial for the online positioning of the sensor, **PROMPT OLO** is also available with extra slim dimensions. The sensor is also available without yarn guides, an option which is suitable for processes where existing yarn guide elements may be applied.

The generated signals from the monitored yarn are analyzed within the sensor. A bridge box connects the sensor to a server. Client PCs are connected to the server, where graphical and numerical reports are displayed in real time. **PROMPT OLO** can also be configured to work as a stand-alone device and can therefore easily be configured into existing installations



Scope:

Optical online sensor for real time monitoring of defects and vital product parameters of filament yarn. Suitable for all kind of filament such as POY, FDY, DTY and filament yarn made of PET, PA, PP and similar materials.

Method:

The filament is guided through the optical **PROMPT OLO** sensor. Defects or varying yarn parameters induce signal fluctuations, which are communicated to the PC by means of a data base.

Results:

The results presentation of the received sensor signals depends on if PROMPT OLO is used together with a PC system or a PLC. If the parameterization of the sensor signals is done via a PC, the results will be presented in the PROMPT Visualization software, which offers numerous analysis possibilities. If the parameterization is done via a PLC, the active sensor status is given by means of the LED display of the sensor and digital signals.

Titer range:
7 - 4000 dtex

Diameter:
10 - 2500µm

Interlace:
0 - 180 nodes/m

Production speed:
Up to 8000 m/min

Sampling rate:
140 kHz

Yarn guide:
Ceramic (exchangeable)

Measuring principle:
Optical

Evaluation and control unit:
PC with Windows® based software

Data communication:
CAN bus from the PROMPT OLO sensor to the bridge box and Ethernet from the bridge box to the server:

- 1 pcs. 24 V push-pull output for defect detection
- 1 pcs. 24 V digital input to start measurements

Power supply:
24 VDC, 200 mA

Temperature range:
15 - 45 °C

Protection class:
IP 67

Dimensions:
Depends on the number of ends

Dimensions:

	Standard	Small
Height:	86 mm	86 mm
Width:	42 mm	29 mm
Depth:	60 mm	60 mm

Housing:
Aluminium, anodized in black

Optionally available:

- Sensor without yarn guides

Technical data and pictures are subject to change.

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quality improvement

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