

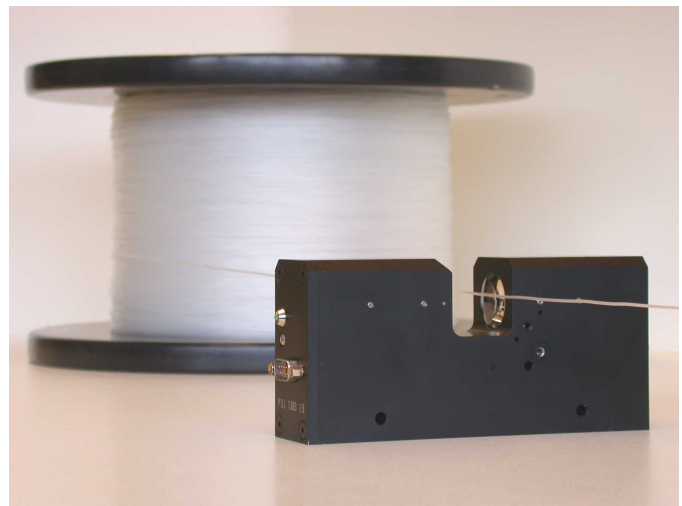
## PROFILE SENSOR PSL 30 FOR FAULT DETECTION

### APPLICATIONS

Accurate inspection of surface faults and short diameter irregularities for continuous monitoring of wires, monofilaments and cables. Industrial quality control applied to drawing, coating, jacketing, extrusion and colouring processes running at high line speeds. Precision detection of lumps, neckdowns, slubs, blisters, flaws, spikes and insulation breaks.

### FEATURES AND BENEFITS

- photometric shadow measurement
- continuous infrared LED light beam
- fast detection in one plane
- continuous real time monitoring
- analogue output signal
- compact and rugged construction
- reliable and user-friendly
- optional roller bearing guides



### INNOVATIVE CONCEPT

Advanced miniaturised optoelectronic components combined with fast analogue signal processing offer a new dimension in surface fault detection. Even at line speeds of 500 m/min, the Profile Sensor allows accurate measurement and characterisation of small defects in real time.

## DETECTION SPECIFICATIONS

Diameter measuring ranges:	0.4 mm to 2.0 mm
Measuring slit aperture:	10 mm x 1 mm
<u>Sensitivity at 500 m/min:</u>	
For a fault length of 1.0 mm:	10 $\mu$ m minimum diameter change

## ELECTRONICAL SPECIFICATIONS

Analogue output signal, bandwidth:	0 to 10 V , DC to 30 kHz
Supply voltage, power consumption:	24 V DC , 3 W

## MECHANICAL SPECIFICATIONS

Housing dimensions (without wire guides):	170 x 80 x 40 mm <sup>3</sup>
Housing material:	black anodised aluminium
Net weight:	1.2 kg

