



PROFILE SENSOR PSL 40 FOR FAULT DETECTION

APPLICATIONS

Ultra fast inspection of surface faults and short diameter irregularities for on-line monitoring of wires in one or two planes. Industrial quality control applied to drawing, coating, extrusion, jacketing and colouring processes running at high line speeds. Precision detection of lumps, neck-downs, blisters, flaws, scratches, bumps, contusions and surface roughness.

FEATURES AND BENEFITS

- diameters from 0.4 mm to 3.0 mm
- optical non-contact measurement
- continuous infrared LED light beam
- detection in one or two planes
- line speeds up to 400 m/min
- detection of micrometric defects
- continuous real-time monitoring
- compact and rugged construction
- reliable and user-friendly
- precision roller bearing guides



INNOVATIVE CONCEPT

Advanced miniaturised optoelectronic components combined with fast analogue signal processing offer a new dimension in surface fault visualisation. Even at line speeds of 400 m/min, the Profile Sensor PSL 40 allows accurate detection and characterisation of small defects in real time.



DETECTION SPECIFICATIONS

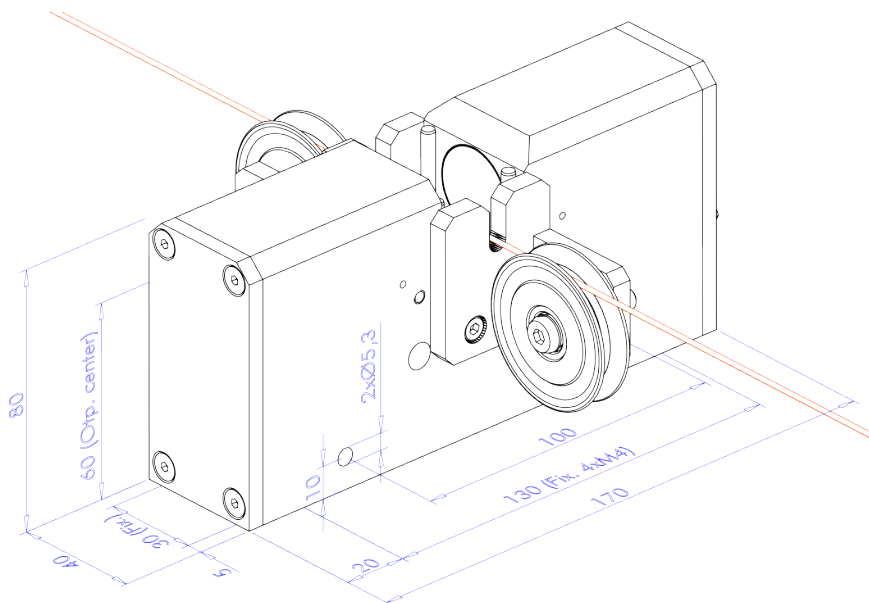
Small diameter measuring range:	0.4 mm to 1.5 mm
Small diameter measuring field:	5 mm
Large diameter measuring range:	1.5 mm to 3.0 mm
Large diameter measuring field:	10 mm

Sensitivities at 400 m/min:

For a fault length of 1.0 mm	10 μm for small range
	20 μm for large range

ELECTRONICAL SPECIFICATIONS

Analogue output signals, bandwidth:	0 to 10 V , DC to 40 kHz
Supply voltage, power consumption:	24 V DC , 3 W



MECHANICAL SPECIFICATIONS

Housing dimensions (without wire guides):	170 x 80 x 40 mm ³
Housing and wire-guides material:	black anodised aluminium
Net weight:	1.2 kg