

SensoWeb „Edge“

Strip-Edge-Monitoring in high temperature areas

Exact monitoring of the edge of fast endless strips in high temperature area (like the felt of a paper machine) is often not so easy: the measurement spot often is characterised by heavy environmental conditions with high temperature, moisture, pollution, contacting sensors get worn themselves or often wear the strip, and highly sophisticated measuring system at last do mostly not cope with the ambient conditions,...

We offer tailor made solutions for that task:

„SensoWeb-Edge - binary“:

- Non-contacting and thanks to fiber optic technology suitable for high temperatures
- dual sensor system for 2 positions per measurement spot
- sensor heads can be easily aligned in order to eliminate distorting background
- sensor equipment only on one side of the machine
- optionally with air purge



The versatile adjustable cantilever handles the fiber optic cables of two parallel sensors, whose sensor heads are aligned to each in a angle (“V-principle”).

In normal state only the inner sensor is activated („1“) and the outer one is free („0“). If the outer sensor switched to „1“, the paper web has to be redirected in the opposite direction. If the inner sensor switches to „0“, the web must be directed against the side of the sensor.

„SensoWeb-Edge - analog“:

- non contacting
- thanks to the fibre optic technology suitable for high temperature and pollution
- energetic position monitoring instead of digital threshold
- wide oscillation monitoring range of up to 200mm
- optionally with air flushing



SensoWeb Edge-analog consists of a measurement fork, a heavy-duty fiber optic cable with special head and a special infra red sensor with analog signal processing.

The measurement fork gets positioned app. 15cm above the web (or felt) and works in V-principle as well (in order to eliminate reflection of near background). In starting position the emitted light will be half reflected by the web/felt and the sensor value shall be 12mA. As soon as the web move against the inner position the signal value decreases and the actors can react early on and vice versa.

Technical Data:

„SensoWeb-Edge - binary“:

A) Sensor:	EFS 2000-11112 / FSP60V-x2x3
Light source:	Infra red LED
Working distance:	app. 150 mm
Power:	24VDC (FSP60: 24 VDC / 115VAC / 230VAC)
Switching frequency:	100 Hz
Output signal:	pnp / npn plus funktion reserve (FR)
Signal indicators:	3 LED: Power / Switching signal / FR-alarm
Protection:	IP 65
Connection:	Cable / M12 plug
B) Fibe optic cable:	60-RY/6x.xxx CO (x... length in mm, max. 13m) Stainless steel meshwork, up to 200°C, liquid tight;
C) Cantilever:	Cantilever SensoWeb binary, inkluding quick release fastener

„SensoWeb-Edge - analog“:

A) Sensor:	FSP60A3-xxx3W ... analog sensor
Light source:	Infra red LED
Working distance:	ca. 150 mm
Power:	24VDC / 115VAC / 230VAC
Switching frequency:	15 Hz
Output signal:	Analog signal (4-20mA)
Signal indicators:	1 LED: Power
Protection:	IP 65
Connection:	Clamps / plug
Mounting frame:	MR 329
B) Fibe optic cable:	30-LQ 12/x.xxx Si (x... length in mm, max. 12 m) Silikon/ steel hose, up to 200°C, liquid tight;
C) Cantilever:	Measurement fork SensoWeb Edge analog inkluding quick release fastener