

Fadensensor



RLS-Sensor

Realtime | Length & Speed | Exact | Contactless

Characteristics of the sensors

- cost-effective, fail-safe and precise
- measurement of the natural electrostatic charge of the yarn with the patented spatial filtering method
- integrated yarn-presence-monitoring including a fail-safe detection of yarn-run / yarn-stop
- possibility of system integration by using a bus system (from operation terminal to yarn cutter)

Advantage of the non-contact measuring method

- high precision, because of no slippage and without any force effect to the yarn and the winding
- no wear off on rotating components unlike measuring wheel
- applicable from rigid yarn to very elastic and fine yarn (e.g. filament glass yarn)
- high velocities and extreme acceleration (e.g. weft insertion) is measurable
- no risk of yarn break, because of non-contact

Advantage over optical sensors

- resistant against industrial pollution
- also applicable for very smooth, transparent and dark yarn
- insensitive to pendulum movement and rotation of the yarn

Specifications

Measuring Range	400 ... 1200 m/min
Thread Material	CO, PA, PET, PE, Viskose, Elastan, Aramid and other
Titer	tested from 100dTex / Nm100, e.g. Elastan also from 22dTex
Tolerance	< 1%
Interface	M12-plug A-COD 5-pins 2m PVC shielded
Power	12...24VDC / 50mA
Output	length (countable pulses) = $U_{in} - 1V$
Dimension	130x64x17mm
Weight	210g