

## Tensile Force Measuring Head Series STAK 1321



Type STAK 1321 is a compact sensor for measuring tensile forces on running material. It contains all necessary components for measuring tensile forces in a very flat housing.

- Measuring system including measuring- and guiderollers
- Amplifier with analogue - output
- Adjustment for zero ( tare ) and amplifying ( calibration )

It is easy to fix it into the production-line and it is ready for operation immediately. Fixing the sensor is optional, several sensors can be stacked to one block.

Type STAK 1321 is available for service voltages of 5 V, 12 V, 24 V or  $\pm 15$ V. Therewith it is compatible to most of the existing sources of tension.

The analogue output supplies a tension of 0 - 10 V, which is proportional to the measuring results. This signal can be used as actual value for controlling.

This tensile force sensor is as well available without amplifier: ( Series STAK 1121 ).

<i>Application:</i>	Measuring tensile forces on wires, cables, threads, yarn and other flexible material	
<i>Rollers:</i>	$\varnothing$ 10 mm	aluminium-rollers running in double-ball-bearings, V - shaped
	$\varnothing$ 10 mm	aluminium-rollers running in double-ball-bearings, ceramic coated or steel
	Option:	rollers tailor-made
<i>Calibration:</i>	The electrical zero and the gain are adjustable by means of a screw-driver	
<i>Housing:</i>	Aluminium	
<i>Weight:</i>	approx. 150 g, without connection-cable	
<i>Volume of delivery:</i>	Measuring head, Instruction manual	
<i>Available in addition:</i>	tailor-made rollers; amplifier with digital display SA DMS 610 or SA 310 DMS	
<i>Types:</i>	STAK 1321	Sensor with built-in amplifier and analogue-output
	STAK 1121	Sensor without built-in amplifier
<i>Options:</i>	STAK 1390	Sensor with measuring-roller or ceramic measuring pin, without guide-rollers with amplifier and analogue output
	STAK 1190	Sensor with measuring-roller or ceramic measuring pin, without guide-rollers without amplifier

