

Differential Sensor Adapter ELFP

The Differential Sensor Adapter (DSA) converts the sinusoidal signals of the ROTEC magnetic sensor into a pulse sequence of needle pulses with TTL level, which are processed by the RASdelta speed measurement board. The analog sensor signal and the digital pulse sequence can be tapped separately at the scope output of the electronics. The trigger point (triggering of the digital pulse) is adjustable. The electronics can optionally trigger the rising, falling or both edges of the incoming sensor signal.

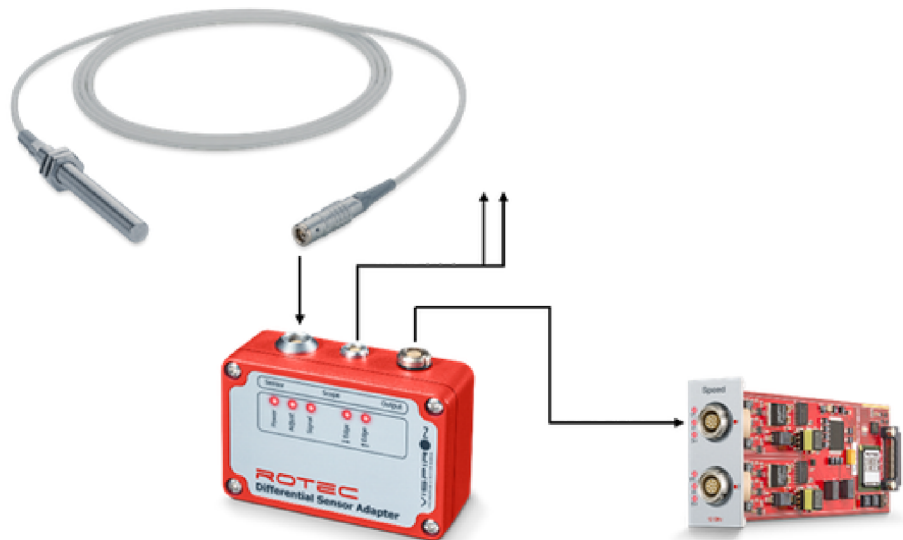


Features

- Converts sinusoidal signals into a pulse sequence of needle pulses with TTL level
- Provides analog sensor signal and digital pulse sequence at separate "Scope" output socket
- Adjustable trigger edges (rising, falling, both)
- Supplies sensor with power
- Power supplied by RASdelta Speed Board

Measurement Chain

- ROTEC Speed Sensor
- Differential Sensor Adapter
- RASdelta Speed Board
- RAS Software



Technical data	
Input socket	4-pin Lemo
Input signal typ	Sinus
Input signal range	5 mV bis 1 Vpp, nominal
Input overvoltage protection	+/- 10 V
Input (tooth) frequency range	0,1 Hz bis 20 kHz
Output socket speed signal	8-pin Lemo
Output signal type	TTL
Output signal width	10 μ s
Output socket monitor signals	3-pin Lemo
Output analog sensor signal	10 Vpp / 10 k Ω
Output digitized sensor signal	TTL / 1 M Ω
Sensor power supply voltage	5V