

4-fold Sensor ELFP4D

The 4-fold Sensor electronics is used to measure speeds with direction detection. It converts the analog sinusoidal signal generated by the sensor into a digital pulse train with TTL level, which serves as the measuring signal. Together with the analog cosine signal, the direction information is also derived. The analog sensor signal and the digital TTL pulse sequence can also be tapped separately at the scope output socket.

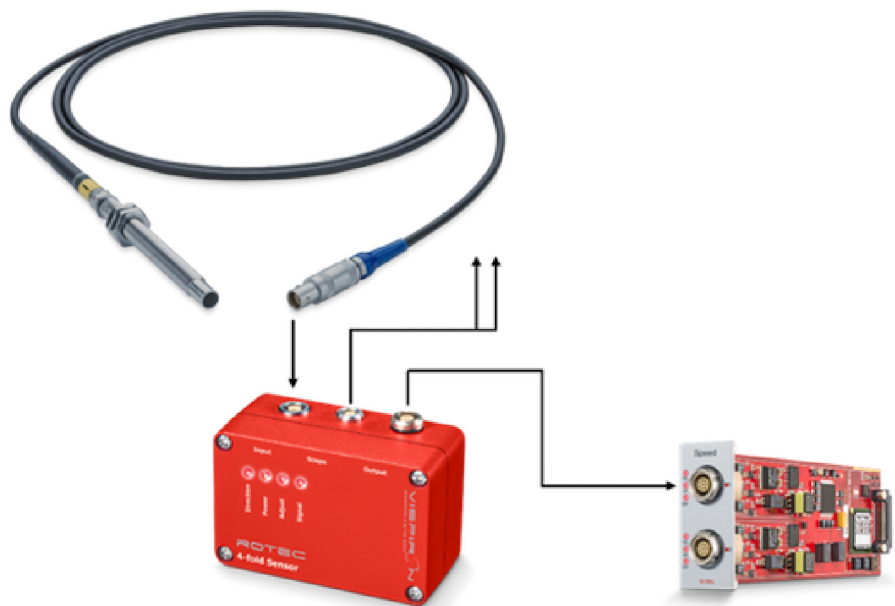


Features

- Measures speeds with direction detection
- Converts analog sinusoidal signal into digital pulse train with TTL level
- Derives directional information from measurement signal
- Supplies sensor with power
- Power supplied by RASdelta speed board

Measurement chain

- ROTEC Speed Sensor with direction recognition
- 4-fold Sensor electronics
- RASdelta Speed Board
- RAS Software



Technical Data	
Input socket	6-pin Lemo
Input signal type	SIN / COS
Input signal range	5 mV to 1 Vpp, nominal
Input overvoltage protection	+/- 10 V
Input (toth) frequency range	0,1 Hz to 10 kHz
Output socket speed signal	8-pin Lemo
Output signal type	TTL
Output pulse width	0,5 divided by input frequency
Output socket monitor signals	3-pin Lemo
Output analog sensor signal	10 Vpp / 10 kΩ
Output digitized sensor signal	TTL / 1 MΩ