

Rotary Encoder Adapter

ELDGADP2

The Rotary Encoder Adapter is used to adapt rotary encoder signals and incremental linear scales with TTL or SIN/COS signals. The electronics generates a digital pulse train with TTL level from the encoder signals, which is used as measuring signal. The Rotary Encoder Adapter records the encoder signals forwards and backwards and derives direction information from them. The signals for the speed and direction of rotation as well as the reference pulse (if available) are recorded and processed by the RASdelta speed measurement card. The reference pulse can also be tapped at a separate socket and used as a start trigger for the measurements.



Features

- Adjusts rotary encoder signals / incremental linear scales with TTL or SIN/COS level
- Generates a digital pulse sequence with TTL level
- Derives direction information from encoder signals
- Detects speed, direction of rotation, reference pulse
- Provides reference pulse as start trigger
- Processes differential or single-ended signals
- Pulse reduction in the speed signal possible
- Supplies incremental encoder with power
- Power supplied by RASdelta speed board

Measurement Chain

- Incremental Encoder
- Rotary Encoder Adapter
- RASdelta Speed Board
- RAS Software



Technical Data	
Input socket	12-pin flange socket
Input signal types	<ul style="list-style-type: none"> • TTL / RS422 • 1 Vpp SIN / COS
Input overvoltage protection	<ul style="list-style-type: none"> • TTL / RS422 Modus: -4 V to +8 V • SIN / COS Modus: +/-25 V
Input (tooth) frequency range	0 Hz to 14 MHz
Output socket speed signal	8-pin Lemo
Output signal type	TTL
Output pulse width	70 ns
Output socket reference signal	8-pin Lemo
Output signal type	TTL
Output pulse width	0,75 divided by input frequency
Sensor power supply voltage	5 V
Working ambient temperature range	- 20 C to + 50 C