

Laser Tachometer 3

ELLAS3

The ROTEC Laser Tachometer 3 is used for optical measurement of the rotational frequency or rotational speed. The electronics generates a power-controlled laser light that is transmitted from the sensor to a black/white pattern (disc or tape) attached to the measurement object. The light-dark transitions of the target are scanned using the reflex method. The optical signal received is first converted into an analog signal and then into a digital signal. This results in a pulse sequence with TTL level and speed-proportional frequency. The analog sensor signal and the digital pulse sequence can be tapped separately at the scope output of the electronics.

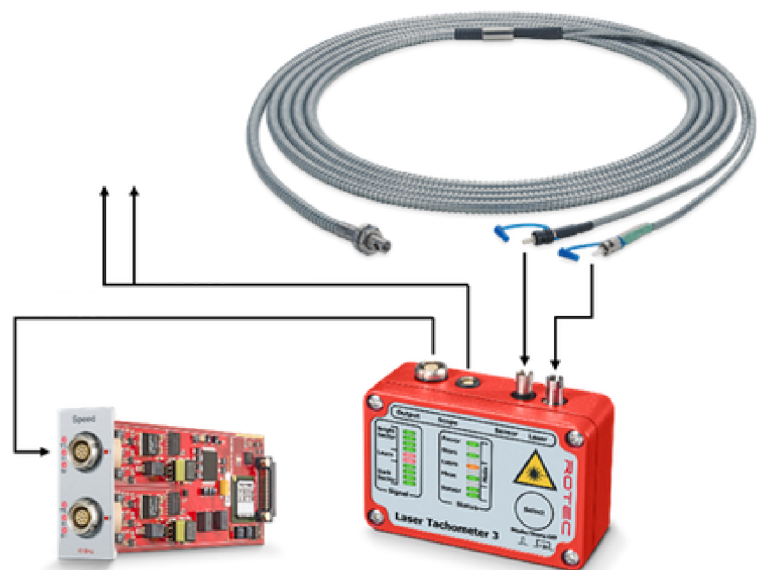


Features

- Measures rotational frequency / speed optically
- Generates power-controlled laser light
- Scans light-dark transitions of the target using the reflex method
- Converts optical signal into digital signal with pulse sequence (TTL level)
- Provides row signal and speed pulse sequence at separate "Scope" output socket
- Power supplied by RASdelta Speed Board

Measurement Chain

- ROTEC Optical Laser Sensor
- Laser Tachometer 3
- RASdelta Speed Board
- RAS Software



| Technical Data | |
|--------------------------------|--|
| Input signal | Fiber optics F ST socket |
| Laser characteristics | <ul style="list-style-type: none"> • Laser class 2 • Laser power < 1 mW • Wave length 650 nm |
| Input (tooth) frequency range | <ul style="list-style-type: none"> • 0 Hz to 65 kHz („Measure“ mode) • 1 Hz to 50 kHz („Learn“ mode) |
| Output socket speed signal | 8-pin Lemo |
| Output signal type | TTL |
| Output pulse width | 0,2 μ s |
| Output socket monitor signals | 3-pin Lemo |
| Output analog sensor signal | 5 Vpp / 100 k Ω |
| Output digitized sensor signal | TTL / 1 M Ω |