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Data Sheet 5.51-7/2

Module for mechanical measurements, Type HiRES Rotary Encoder

Application

The HiRES Rotary Encoder allows mechanical measurements, such as position, speed or acceleration, which often have to be combined with electrical measurements. It measures linear movements through suitable gear (not included) also. The encoder requires two input channels of HiRES Data RotEnc Module. A standalone receiver is available as well.

Main features

- Mechanically rugged design
- Fully shielded against EMI
- Potential-free measurement
- Fiber optic connection to measuring device
- Channels for position, speed or acceleration can be generated
- Channels can be scaled in units of length and angle
- Channels can be used as trigger
- Included battery

Main parameters

Resolution	1024 or 2048 increments per revolution
Max. speed	12000 rpm
Working time (approx., fully charged)	
Measurement	>12 h
Sleep mode	3 weeks
Charging time (approx.)	5 h
Temperature range	-10 ... 60 °C (operating) -10 ... 50 °C (storage, 0 ... 25°C recommended for low self-discharge) 0 ... 45 °C (charging)
Durability	500 cycles
Shaft diameter	6 mm
Shaft length	25 mm
Dimensions (approx., W x H x D)	70 x 65 x 60 mm (without shaft and FO interface)
Weight (approx.)	0.8 kg



Fig. 1 HiRES Rotary Encoder (left), standalone receiver (right)