

Incremental Encoder

Technical data - electrical ratings

- Voltage supply 5 VDC $\pm 5\%$
- 9...26 VDC
- 9...30 VDC
- Consumption w/o load 100 mA
- Resolution (steps/turn) 1...1250
- Phase shift $90 \pm 20^\circ$
- Scan ratio 40...60 %
- Reference signal Zero pulse, width 90°
- Sensing method Optical
- Output frequency 120 kHz
- Output signals K1, K2, K0 + inverted
- Output circuit TTL/RS422
- HTL (power linedriver)
- Interference immunity DIN EN 61000-6-2
- Emitted interference DIN EN 61000-6-4
- Approval UL approval / E256710

Technical data - mechanical design

- Dimensions (flange) 115 mm
- Shaft type 11 mm solid shaft
- Shaft loading 250 N axial
- 350 N radial
- Flange EURO flange B10
- Protection DIN EN 60529 IP 55

- Operating speed 12000 rpm (mechanical)
- Operating torque typ. 1 Ncm
- Rotor moment of inertia 280 gcm
- Materials Housing: aluminium die-cast
- Shaft: stainless steel
- Operating temperature -30...+100 °C
- Resistance IEC 60068-2-6
- Vibration 10 g, 10-2000 Hz
- IEC 60068-2-27
- Shock 100 g, 6 ms
- Explosion protection II3G Ex nA IIC T4 Gc (gas)
- II3D Ex tc IIIB T135°C Dc (dust)
- Connection Terminal box
- Weight approx. 900 g