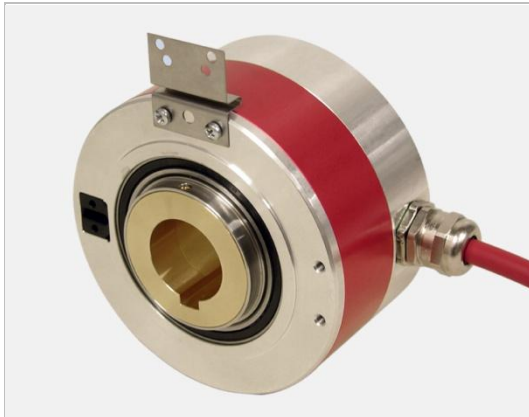
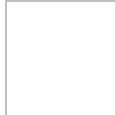


Incremental-Encoder IEH 110

IEH110-INC-1-GB-1
04/12 Revision 01
010101-01109999-9999



- + Incremental interface
- + Type with hollow through shaft
- + Shaft diameter 30...50 mm
- + Parameter setting possibilities
- + Special parameters upon request

Characteristics

Supply voltage.....	11...27 VDC, optional 5 VDC $\pm 5\%$
Current consumption without load.....	< 110 mA, < 150 mA at 5 VDC
Number of pulses/revolution ¹⁾	$\geq 2 \dots \leq 8.192$
Version with push-pull	
- Output level	11...27 VDC, supply voltage
- Output current	≤ 30 mA
- Output frequency	150 kHz, $\pm 15^\circ$
- Supply voltage	11...27 V DC
Version with line driver	
- Output level	5 VDC, RS422
- Output current	≤ 50 mA
- Output frequency	300 kHz, $\pm 15^\circ$
- Supply voltage	11...27 V DC, optional 5 VDC
Incremental signals	A+, A-, B+, B-
Zero pulse	Ref+, Ref-
Mechanically permissible speed	≤ 2.000 min ⁻¹
Shaft load.....	Own mass
Bearing life time.....	$\geq 3.9 * 10^{10}$ revolutions at
- Speed	≤ 2.000 min ⁻¹
- Operating temperature	≤ 60 °C
Shaft diameter in mm.....	30H7 with groove...50H7 without groove
Permissible angular acceleration.....	$\leq 10^4$ rad/s ²
Moment of inertia	typically $525 * 10^{-6}$ kg m ²
Start-up torque at 20°C.....	typically 8 Ncm
Mass.....	typically 1.75 kg

¹⁾ programmable parameter

Subject to change

Environmental conditions

Vibration, DIN EN 60068-2-6: 1996	≤ 100 m/s ² , sine 50-2000 Hz
Shock, DIN EN 60068-2-27: 1995.....	≤ 1000 m/s ² , half-sine 11ms
EMC	
- Transient emissions, DIN EN 61000-6-3: 2007	
- Immunity to disturbance, DIN EN 61000-6-2: 2006	
Working temperature.....	0 °C...+60 °C, optional -20 °C...+70 °C
Storage temperature	-30 °C...+80 °C, dry
Relative humidity, DIN EN 60068-3-4: 2002	98 %, non condensing
Protection class, DIN EN 60529: 1991 ²⁾	IP 54

²⁾ valid with screwed on mating connector and / or screwed together cable gland

Dimension drawing

(For project planning please request customized dimensional drawing!)

