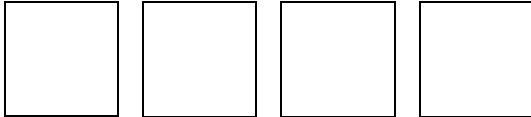


## Incremental-Encoder IEH 80 F

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- **Incremental-interface**
- **Type with hollow through shaft**
- **Number of pulses per revolution  
360, 500, 600 (Aluminum housing)**
- **Number of pulses per revolution  
1000, 1024, 2048 (Polyamide housing)**
- **Shaft diameter 15 mm**
- **For motor-feedback applications**

**6.1**

## Characteristics

Supply voltage.....	11 ... 27 VDC, 5 ... 30
Current consumption without load .....	≤ 100 mA
Number of pulses per revolution, with aluminum housing .....	360, 500, 600
Number of pulses per revolution, with polyamide housing.....	1000, 1024, 2048
Outputs, 5 ... 30 VDC	
- Incremental signals.....	K1, K1 neg, K2, K2 neg
- Zero pulse.....	K0, K0 neg, 1 pulse per revolution
- Output frequency.....	≤ 200 kHz
- Supply voltage.....	5 ... 30 VDC
Outputs, 5 VDC	
- Incremental signals.....	K1, K1 neg, K2, K2 neg
- Zero pulse.....	K0, K0 neg, 1 pulse per revolution
- Output frequency.....	≤ 200 kHz
- Supply voltage.....	11 ... 27 VDC
Mechanically permissible speed .....	≤ 3.000 min <sup>-1</sup>
Shaft load.....	own mass
Bearing life time .....	≥ 5,0 * 10 <sup>9</sup> revolutions
Shaft diameter in mm.....	15H7
Connection.....	radial cable outlet 1 m

### Environmental conditions

Vibration, DIN EN 60068-2-6: 1996.....	≤ 100 m/s <sup>2</sup> , sine 10-2000 Hz
Shock, DIN EN 60068-2-27: 1995.....	≤ 200 m/s <sup>2</sup> , half-sine 11 ms
Working temperature.....	-10 °C... +85 °C
Storage temperature.....	-30 °C ... +110 °C, dry
Relative humidity, DIN EN 60068-3-4: 2002 .....	98 %, non condensing
Protection class, DIN EN 60529: 1991.....	IP 54
EMC.....	EN 61000-6-2: 2002, EN 61000-6-4: 2002

### Order Information

No. of pulses per revolution	Supply voltage	Output level	Order No.
1000	5 ... 30 VDC	5 ... 30 VDC	IEH80F-00003
1000	11 ... 27 VDC	5 VDC	ÎEH80F-00005
1024	5 ... 30 VDC	5 ... 30 VDC	IEH80F-00004
1024	11 ... 27 VDC	5 VDC	IEH80F-00006
2048	5 ... 30 VDC	5 ... 30 VDC	IEH80F-00001
2048	11 ... 27 VDC	5 VDC	IEH80F-00002

### Dimension drawing

