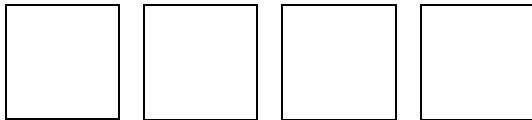


Incremental-Encoder IES 38

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- Incremental-interface
- Type with blind shaft
- Number of pulses per revolution 2 - 1024
- Shaft diameter 6 mm

6.1

Characteristics

Supply voltage.....	11 ... 27 VDC, 5 ... 30 VDC
Current consumption without load	≤ 100 mA
Number of pulses per revolution	2, 3, 5, 10, 15, 20, 25, 32, 36, 40, 50, 60, 64, 72, 78, 100, 108, 125, 128, 132, 150, 156, 168, 176, 180, 188, 192, 200, 216, 239, 250, 254, 256, 300, 314, 360, 400, 500, 512, 600, 625, 720, 800, 900, 1000, 1024
Outputs, 5 ... 30 VDC	
- Incremental signals.....	K1, K1 neg, K2, K2 neg
- Zero pulse.....	K0, K0 neg, 1 pulse per revolution
- Output frequency.....	≤ 50 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.....	≤ 50 kHz
- Supply voltage.....	11 ... 27 VDC
Mechanically permissible speed	≤ 6.000 min ⁻¹ , short cycle time ≤ 10.000 min ⁻¹
Shaft load.....	own mass
Bearing life time	≥ 5,0 * 10 ⁹ revolutions
Shaft diameter in mm	6H7
Moment of inertia	typically 6 g cm ²
Start-up torque at 25°C	typically 0,005 Nm
Mass.....	typically 0,1 kg
Connection	radial cable outlet 1 m

Environmental conditions

Vibration, DIN EN 60068-2-6: 1996.....	≤ 100 m/s ² , sine 10-2000 Hz
Shock, DIN EN 60068-2-27: 1995.....	≤ 200 m/s ² , half-sine 11 ms
Working temperature.....	-10 °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.....	IP 55
EMC.....	EN 61000-6-2: 2002, EN 61000-6-4: 2002

Order Information

No. of pulses per rotation	Supply voltage	Output level	Order No.
1000	5 ... 30 VDC	5 ... 30 VDC	IES38-00006
1000	11 ... 27 VDC	5 VDC	IES38-00007
1024	5 ... 30 VDC	5 ... 30 VDC	IES38-00001
1024	11 ... 27 VDC	5 VDC	IES38-00002

Dimension drawing

