

Incremental-Encoder IMV 36

IMV36-INK-1-GB-1
08/13 Revision 01
010102-00369999-9999



- + Incremental interface
- + Type with solid shaft
- + Number of pulses per revolution up to 2.048
- + Encapsulated electronics
- + Protection class up to IP 69K
- + Magnetic scanning technology

Characteristics

Supply voltage.....	11 ... 27 VDC, 5 VDC \pm 5 %
Current consumption without load	< 40 mA
Possible number of pulses/revolution:	
- Binary.....	8, 16, 32, 64, 128, 256, 512, 1.024, 2.048
- Decimal.....	10, 20, 25, 40, 50, 80, 100, 125, 200, 250, 400, 500
Outputs, 11 ... 27 VDC	
- Incremental signals.....	K1, K1 neg, K2, K2 neg
- Zero pulse	K0, K0 neg, 1 pulse per revolution
- Output frequency	\leq 150 kHz
- Supply voltage	11 ... 27 VDC
Outputs, 5 VDC	
- Incremental signals.....	K1, K1 neg, K2, K2 neg
- Zero pulse	K0, K0 neg, 1 pulse per revolution
- Output frequency	\leq 150 kHz
- Supply voltage	11 ... 27 VDC, 5 VDC
Mechanically permissible speed	\leq 6.000 min ⁻¹
Shaft load, at the shaft end.....	\leq 5 N axial, \leq 10 N radial
Bearing life time.....	\geq 3.9 * 10 ⁹ revolutions at
- Speed	\leq 3.000 min ⁻¹
- Operating temperature	\leq 60 °C
- Shaft load, at the shaft end.....	\leq 5 N axial, \leq 10 N radial
Permissible angular acceleration.....	\leq 10 ⁴ rad/s ²
Moment of inertia	typically 2.5 * 10 ⁻⁶ kg m ²
Start-up torque at 20°C.....	typically 2 Ncm
Connection.....	axial cable outlet
Mass.....	0.15 kg

Subject to change

Environmental conditions

Vibration, DIN EN 60068-2-6	≤ 100 m/s ² , sine 50-2000 Hz
Shock, DIN EN 60068-2-27	≤ 1000 m/s ² , half-sine 11ms
EMC	
- Immunity to disturbance, DIN EN 61000-6-2	
- Transient emissions, DIN EN 61000-6-3	
Working temperature	-25 °C...+70 °C
Storage temperature	-20 °C...+85 °C, dry
Relative humidity, DIN EN 60068-3-4	98 %
Protection class, DIN EN 60529	IP 65
- Option DIN 40050-9	IP 69K

Dimension drawing

(For project planning please request customized dimensional drawing!)

