

GoTo Focused Delivery Program: Drive Systems

Drive Components - Master Encoder



Master Encoders GDS02.1 (Single-turn) / GDM02.1 (Multi-turn) are designed to be used as rotary encoders within engineering and machine constructions.

For application specific use of the encoders are devices with different designs available.

Features

- See Technical Data for more information.

Technical Data

	GDS02.1 Singleturn	GDM02.1 Multiturn
Absolute position values	EnDat 01	EnDat 01
Positions / U	8,192 (13bit)	
Distinguishable within ... revolutions	1	4,096
Code	Dual	Dual
Electr. allowed speed / with system accuracy	1,500 min ⁻¹ / ±1 LSB 12,000 min ⁻¹ / ±50 LSB	
Incremental signals	1 Vss	
Increments	2,048	2,048
Typical limit frequency - 3 dB	≥ 400 kHz	≥ 400 kHz
Power supply	3.6 ... 14 V	3.6 ... 14 V
Max. current consumption	≤ 160 mA	≤ 200 mA
Electrical connection	Flange socket	
Max. cable length	75 m	75 m
Drive shaft	one side open hollow shaft D = 12 mm	
Mech. permitted speed	max. 12,000 min ⁻¹	max. 10,000 min ⁻¹
Starting torque	≤ 0.01 Nm	
Moment of inertia of rotor	4.3 x 10 ⁻⁶ kgm ²	
Permitted axial moving of the drive shaft	± 1 mm	
Vibration 55 bis 2,000 Hz	≤ 300 m/s ² (EN60068-2-6)	
Shock 6ms	≤ 1,000 m/s ² (EN60068-2-27)	
Operating temperature	-40 ... 100 °C	
Protection class EN 60529	IP 67 on the housing; IP 64 on the shaft input	
Mass	approx. 0.30 kg	

Part Number	Description	Max. Quantity	Shipment (Business Days)
R911323380	GDM02.1-2048-014V-H12,0	1	5 day(s)
R911323378	GDS02.1-2048-014V-H12,0	1	5 day(s)