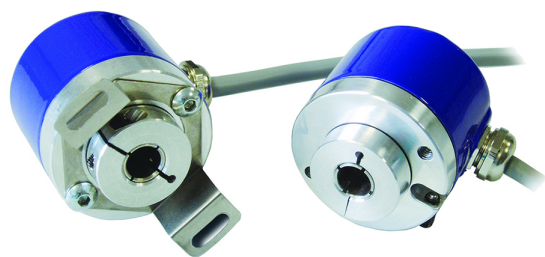


MDI38F/G



MDI 38 F / G

Incremental Encoder 38F/G, Blind hollow shaft

MINIATURIZED Ø 38 ENCODER SERIES FOR GENERAL FACTORY AUTOMATION APPLICATIONS, SMALL AC MOTORS AND GEARMOTORS.

OVERVIEW

- 3 channel encoder (A / B / Z) up to 2500 ppr
- Power supply up to +30 VDC with several electronic outputs available
- Up to 220 kHz output frequency
- Cable output, connectors available on cable end
- Metal cover for high IP mechanical protection
- Blind hollow shaft diameter up to 10 mm
- Mounting by stator coupling or anti-rotation pin

TECHNICAL FEATURES

Detection properties

Resolution	da 100 a 2500 ppr
counting direction	A leads B clockwise (shaft view)

Application

max output frequency	220 kHz
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Outputs

Output type	push-pull / line driver
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Electrical data	
Operating Voltage	5/30 = 4,5 ... 30 V DC (reverse polarity protection)
No-Load supply current	800 mW
max load current	20 mA / channel
Mechanical data	
Housing material	PA66 glass fiber reinforced
Weight	150 g
Operating temperature	-20° ... +70°C
Storage temperature	-25° ... +70°C
max shaft load	5 N assiale / radiale
Shaft diameter	ø 6* / 8* / 10 mm
max rotation speed	3000 rpm
moment of inertia	0,8 x 10-6 kgm2
starting torque at 20°c	< 0,01 Nm (IP 64) < 0,06 Nm (IP 65)
shaft material	1.4305 / AISI 303 stainless steel
bearings	2 ball bearings
bearings life	109 revolutions
Test/Approvals	

EMC compatibility	IEC 61000-6-2 IEC 61000-6-4
Shocks and vibrations	10 G, 10 ... 2000 Hz (IEC 60068-2-6)
Degree of protection	IP 64 (IEC 60529) IP 65 (IEC 60529)

Generical Data

Operating Temperature	-20° ... +70°C
Mechanical Protection	IP 64 (IEC 60529) IP 65 (IEC 60529)

OTHERS

Dimensions

Image:

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