



MDI58B/C

MDI 58 B/C

Incremental Encoder 58B/C, Solid shaft

STANDARD Ø 58 MM ENCODER SERIES FOR INDUSTRIAL APPLICATIONS WITH HIGH MECHANICAL RESISTANCE REQUIREMENTS

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 or connector output
- Solid shaft diameter up to 10 mm
- Mounting by synchronous, clamping flange

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)
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No-Load supply current	800 mW
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max load current	20 mA / channel
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Mechanical data

Housing material	PA66 glass fiber reinforced
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Weight	350 g (12,35 oz)
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Operating temperature	-25° ... +85°C (-13° ... +185°F)
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Storage temperature	-25° ... +70°C (-13° ... +158°F)
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max shaft load	10 N axial with ø6 mm shaft 20 N radial with ø6 mm shaft 200 N axial / radial
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Shaft diameter	ø 6 mod.B ø 10 mm mod.C
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max rotation speed	6000 rpm (IP54) 3000 rpm / 70° C - 2000 rpm / 85° C (IP66)
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moment of inertia	1,5 x 10 ⁻⁶ kgm ²
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starting torque at 20°c	< 0,02 Nm (IP 54) < 0,06 Nm (IP 66)
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shaft material	1.4305 / AISI 303 stainless steel
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bearings	2 ball bearings
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bearings life	109 revolutions
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Test/Approvals

EMC compatibility	IEC 61000-6-2 IEC 61000-6-4
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Shocks and vibrations	10 G, 10 ... 2000 Hz (IEC 60068-2-6)
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Degree of protection	X = IP 54 (IEC 60529) S = IP 66 (IEC 60529)
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Generical Data

Operating Temperature	-25° ... +85°C (-13° ... +185°F)
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Mechanical Protection	X = IP 54 (IEC 60529) S = IP 66 (IEC 60529)
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OTHERS

Dimensions

Image:

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