



Indicative image

MINIATURIZED Ø 42 MM ENCODER SERIES FOR GENERAL FACTORY AUTOMATION APPLICATIONS

- 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
- 6 mm solid shaft diameter
- Mounting by clamping flange

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

Weight	100 g (3,52 oz)
Housing Material	PA66 glass fiber reinforced
Operating temperature	-25° ... +85°C (-13° ... +185°F)
Storage temperature	-25° ... +70°C (-13° ... +158°F)
max shaft load	5 N axial / radial

Shaft diameter	ø 6 mm
max rotation speed	3000 rpm (IP 66) 6000 rpm (IP 54)
moment of inertia	0,1 x 10 ⁻⁶ kgm ²
starting torque at 20°C	< 0,01 Nm (IP 54) < 0,05 Nm (IP 66)
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	X = IP 54 (IEC 60529) S = IP 66 (IEC 60529)

Generical Data

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

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