



elap

INCREMENTAL ENCODERS series REC

REFERENCE GUIDE



CERTIFICATE NO. E510647

MECHANICAL & ENVIRONMENTAL SPECIFICATIONS	
REC520/540/620 REC440/450	
• Materials: housing shaft	Aluminium Steel AISI 303
• Weight	210 g circa
• Shaft/hollow shaft Ø mm	10, 9,52, 8, 6 8, 10, 12, 14, 15
• Revolutions/minute	6000 continuous/10000 temporary
• Starting torque	≤0,8 Ncm
• Inertia	≤25 g cm ²
• Max load	80 N axial/100 N radial
• Vibration resistance (10÷2000 Hz)	100 m/sec ²
• Shock resistance (11 ms)	50 G
• Protection degree	IP65
• Operating temperature	-10 ÷ 70°C
• Ambient temperature	80°C max
• Stocking temperature	-20 ÷ 80°C

ELECTRICAL & OPERATING SPECIFICATIONS	
• Pulse code	Incremental
• Pulses/revolution	2 ÷ 12500
• Zero pulse	One pulse/revolution (REC521/541/621/REC441/451)
• Output signals	Two square waves 90° ±15° out of phase – Zero pulse width: 90°±15°
• Electronic output	push-pull, line driver 5Vdc or 5/30Vdc signals protected against short circuits
• Supply voltage	5/30Vdc protection against polarity reversal
• Absorption	30÷80 mA max
• Max. frequency	100 KHz/200 HKz for ppr>1250
• Connections	5-pin M12 radial plug connector 8-pin connector for line driver output Optional: tap connector with cable

CONNECTIONS			
Push Pull SIGNALS		Line Driver SIGNALS	
5-pin connector		8-pin connector	
Out 1	pin 2	Out 1	pin 1
Out 2	pin 4	Out 2	pin 3
Out Z (types with 0)	pin 5	Out Z (types with 0)	pin 5
+ Vdc	pin 1	+ Vdc	pin 8
0V	pin 3	0V	pin 7
		Out 1	pin 2
		Out 2	pin 4
		Out Z (types with 0)	pin 6



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