

REP521

REP541

REP621

INCREMENTAL ROTARY ENCODERS Programmable series REP

- Incremental magnetic encoders
- Programmable ppr no.
- Zero reference pulse
- Aluminium housing

Incremental encoders **EP/REP** ppr no. ranges from 8 to 2048.

The ppr no. is easily set by the user via PC.

MECHANICAL VERSIONS							
REP521	REP541	REP621	REP411	REP451			
Round flange Ø 58 mm Servo coupling Centering mask Ø 50 mm Shaft Ø 6, 8, 9.52, 10mm SYNCHRO FLANGE	Round flange Ø 58 mm Centering mask Ø 36 mm Shaft Ø 6, 8, 9.52, 10mm <i>CLAMPING FLANGE</i>		Hollow shaft Ø 8, 10, 12, 14, 15 mm Antirotational fixing	Hollow shaft Ø 8, 10, 12, 14, 15 mm Fixing by elastic support			
Range of programmable ppr no.							

8 • 10 • 16 • 20 • 25 • 32 • 40 • 50 • 64 • 80 • 100 • 125 • 128 • 200 • 250 • 256 • 400 • 500 • 512 • 1024 • 2048

MECHANICAL & ENVIRONMENTAL SPECIFICATIONS REP521/541/621 REP411/451					
 Materials: housing shaft 	Aluminium Steel AISI 303				
Weight	210 g circa				
Shaft/jHollow shaft Ø mm	10, 9.52, 8, 6	10, 9.52, 8, 6			
Revolutions/minute	6000 continuos/10000 temporary*				
 Starting torque 	≤0.8 Ncm				
Inertia	\leq 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 – optional IP66 with O-ring mounted on the shaft*				
Operating temperature	-10 ÷	70°C			
Stocking temperature	-20 ÷ 80°C				

ELECTRICAL & OPERATING SPECIFICATIONS				
Pulse code	Incremental			
 Pulses/revolution 	8 ÷ 2048			
 Zero pulse 	One pulse/revolution			
 Output signals 	Two square waves 90° ±15° out of phase – Zero pulse width: 90°±15°			
Electronic output	push-pull, line driver 5Vdc or 5/28Vdc signals protected against short circuit			
 Supply voltage 	5/28 Vdc protection against polarity reversa			
 Absorption 	1,2 W			
Max. frequency	200 KHz			
Connections	Axial or radial connector outlet line driver output: 12-pin M23 connector push-pull output: 7-pin MS connector			

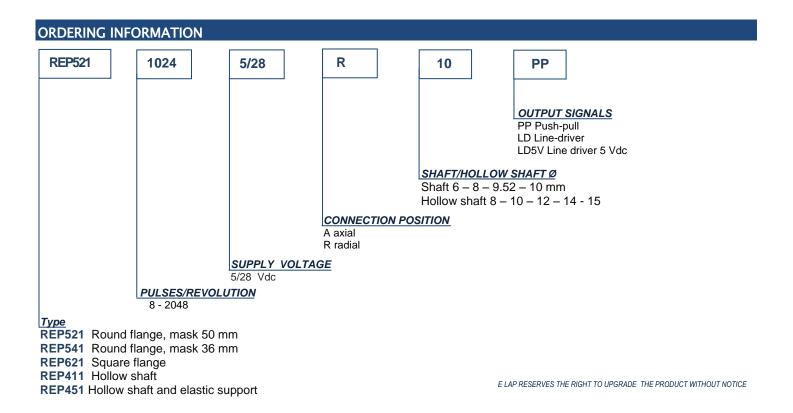
*Except hollow shaft types – Max speed with O-ring mounted on the shaft: 3000 rev/min.

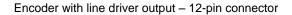


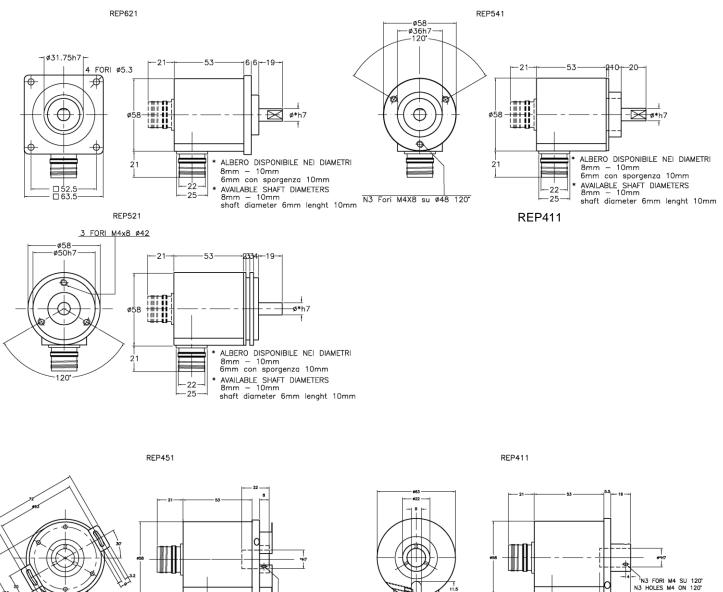
REP411

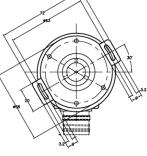
REP451

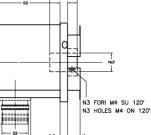
CONNECTIONS				PROGRAMMING KIT
Push Pull outp	out	Line Driver ou	tput	
SIGNALS	7-pin connector	SIGNALS	12-pin connector	
0V	Α	Out 1	pin 1	
D+ USB	В	Out 2	pin 2	The programming kit includes the 7- or 12-pin flying connector, the USB cable and the programming tool EncoderManager to be downloaded from the site www.elap.it.
Out 1	С	Out Z	pin 3	
Out Z	D	D+ USB	pin 4	
Out 2	E	D- USB	pin 5	
+V	F	Out 1	pin 6	
D- USB	G	Out 2	pin 7	A PC with USB port 1.1 or 2.2 and OS Windows
		Out Z	pin 8	10, 8, 7, Windows Vista o Windows XP is needed for the programming operations.
		+V	pin 11	
		0V	pin 12	











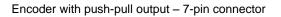
FORO DISPONIBILE NEI DIAMETRI/AVAILABLE HOLLOW SHAFT DIAMETER 8mm - 10mm - 12mm - 14mm - 15mm

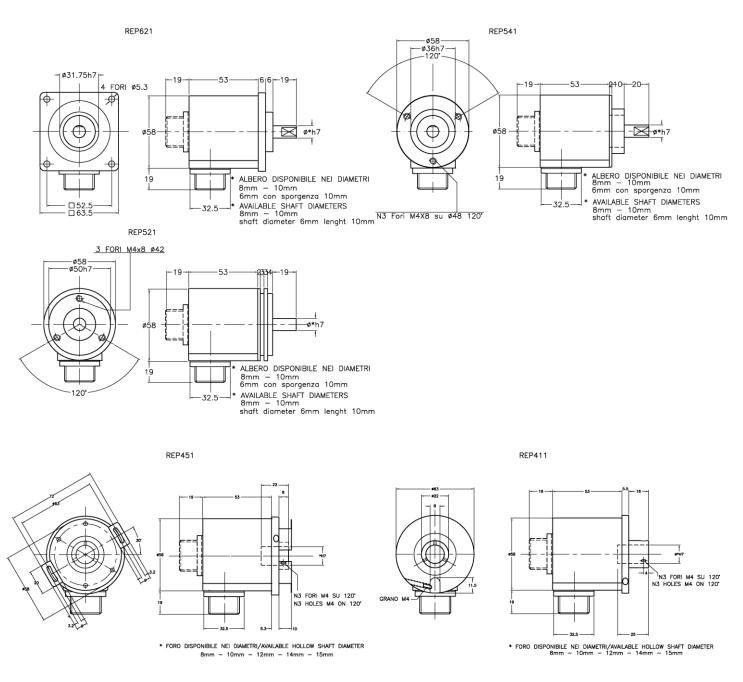
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* FORO DISPONIBILE NEI DIAMETRI/AVAILABLE HOLLOW SHAFT DIAMETER 8mm – 10mm – 12mm – 14mm – 15mm

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REFERENCES

Information, software, drawings available at:

https://www.elap.it/incremental-encoders/encoder-rep/

