



α EP / REP



Description

- Magnetic incremental encoders
- Programmable ppr number
- Zero pulse
- Several configurations available
- Accurate, strong and reliable

Incremental encoders EP/REP ppr no. ranges from 8 to 2048. The ppr no. is easily set by the user directly via PC; the programming kit supplied with the encoder includes the USB cable ended with the encoder connector, and the CD with the programming software.

EP/REP operate according to the magnetic principle, and offer excellent performances in terms of resistance to vibrations and shocks, acceleration, speed and protection.

The different mechanical versions can meet every type of application requirement; each mechanical type is available with ABS plastic case – series EP with push-pull output – or metal case – series REP with line driver output.

Type EP	Type REP
ABS plastic case	Aluminium case
Push-pull electronic output	5 Vdc or 5/28 Vdc line-driver output
7-pin MS connector axial or radial outlet	12-pin Connei connector axial or radial outlet

Mechanical versions

Series EP/REP521: Round flanged, Ø 58 mm, servo coupling Ø 50 mm centering mask Shaft Ø: 6, 8, 9.52 or 10 mm	Series EP/REP511: Round flanged, Ø 58 mm servo coupling Ø 31.75 mm centering mask Shaft Ø: 6, 8, 9.52 or 10 mm	Series EP/REP621: Square flanged 63.5 x 63.5 mm Centering mask Ø 31.75 mm Shaft Ø 6, 8, 9.52 or 10 mm
Series EP/REP541: Round flange Ø 58 mm, servo coupl. Centering mask Ø 36 mm 3 M4 holes at 120° on Ø 48 mm Shaft Ø 6, 8, 9.52 or 10 mm	Series EP/REP651: Square flange 63.5x63.5 mm Centering mask Ø 50 mm Shaft Ø 6, 8, 9.52 or 10 mm	Series EP/REP411: Round flanged, Ø 63 mm Hollow shaft for direct mounting to a motor shaft, hole diameter 8, 10, 12, 14 or 15 mm
Series EP/REP401: Round flange, Ø 58 mm, fixing holes on Ø 30 mm Joint for direct mounting to a motor shaft diameter 6, 8 or 10 mm	Series EP/REP471 Round flange, Ø.72 mm, fixing holes on Ø 63.5 Joint for direct mounting to a motor shaft diameter 6, 8 or 10 mm	

Mechanical & environmental specifications

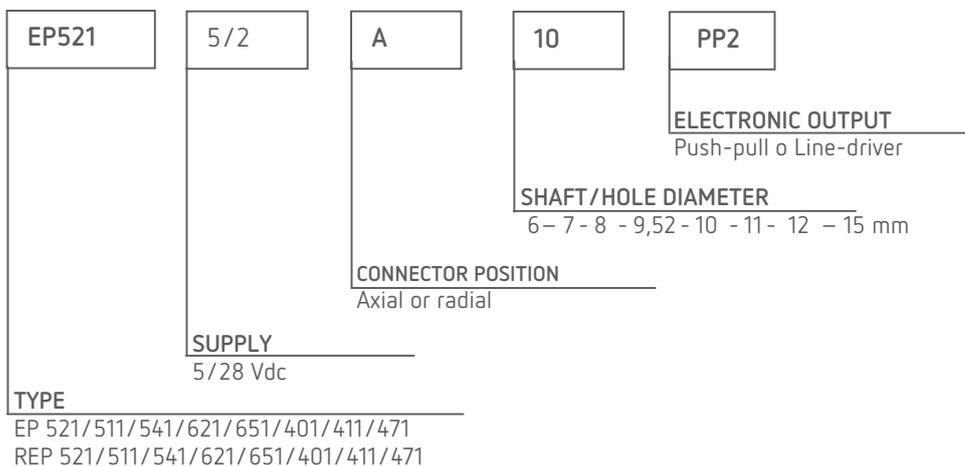
Materials: case	EP ABS / REP aluminium
shaft	Stainless steel AISI 303
Revolutions/minute	6000* continuous 10000 temporary *max operating speed with IP65 sealing ring applied on the shaft: 3000
Starting torque	≤ 0,8 Ncm
Inertia	≤ 25 g cm ²
Max. load	80N axial/100N radial
Vibration resistance (10÷2000 Hz)	100 m/sec ²
Shock resistance (11 ms)	50 G
Protection degree	IP64 (optional IP65 with sealing ring)
Operating temperature	0 ÷ 70°C
Stocking temperature	-20 ÷ 80°C

Electrical & Operating specifications

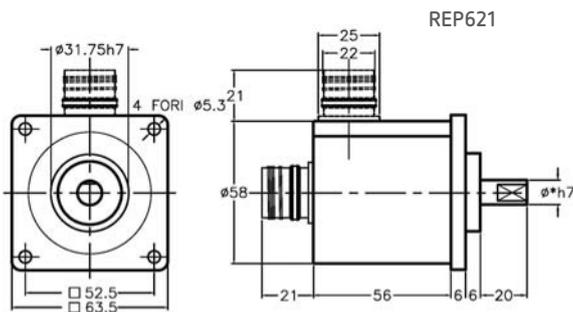
Pulse code	Incremental
Pulses/revolution	8, 10, 16, 20, 25, 32, 40, 50, 64, 80, 100, 125, 128, 200, 250, 256, 400, 500, 512, 1024, 2048
Zero pulse	1 pulse each revolution
Output signals	Two square waves 90° ±15° out of phase - Zero pulse width: 90°±15°
Electronic output	Push-pull or line driver - Signals protected against short circuits
Supply voltage	5/28 Vdc - Protection against polarity reversal
Power consumption	1.2 W
Max. frequency	200 KHz
Connection outlets	MS 7-pin axial or radial connector (push-pull output) or Connei 12-pin axial or radial connector (line driver output)

The programming kit includes: 7 or 12-pin connector + USB cable for encoder to PC connection – CD containing the programming tool -.Minimum system requirements: Windows2000/XP/VISTA

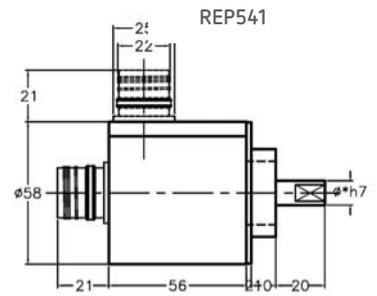
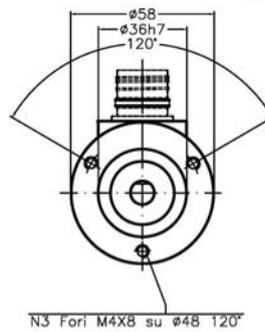
Ordering information



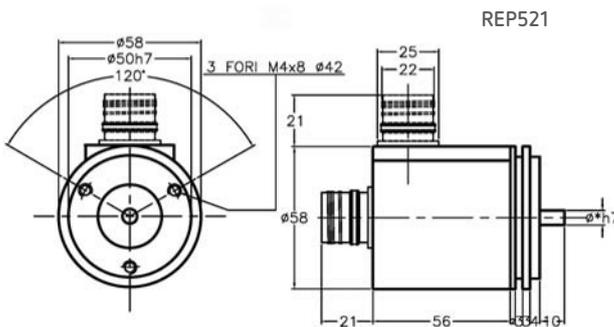
■ Dimensions



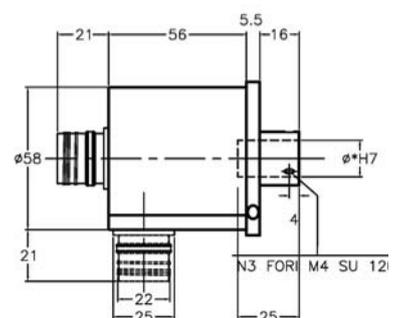
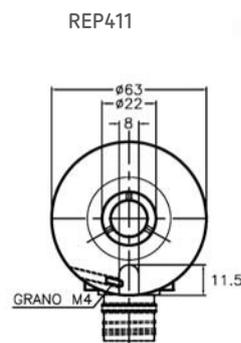
* ALBERINO DISPONIBILE NEI DIAMETRI
8mm - 10mm con sporgenza 20mm
6mm con sporgenza 10mm



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6mm con sporgenza 10mm



* FORO DISPONIBILE NEI DIAMETRI
8mm - 10mm - 12mm - 14mm - 15mm