



## EP / REP

### Programmable Magnetic Incremental Encoders

- 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

ABS plastic case  
 Push-pull electronic output  
 7-pin MS connector axial or radial outlet

#### ■ Type REP

Aluminium case  
 5 Vdc or 5/28 Vdc line-driver output  
 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

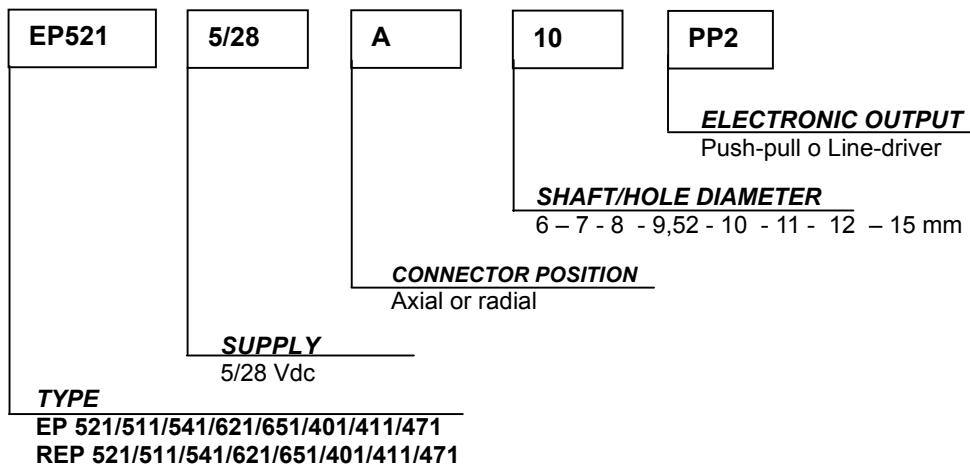
Materials: case	<b>EP:</b> ABS / <b>REP</b> aluminium
shaft	Stainless steel AISI 303
Revolutions/minute	6000* continuous 10000 temporary *max operating speed with IP65 sealing ring applied on the shaft: 3000
Starting torque	≤0,8 Ncm
Inertia	≤25 g cm <sup>2</sup>
Max. load	80N axial/100N radial
Vibration resistance (10÷2000 Hz)	100 m/sec <sup>2</sup>
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

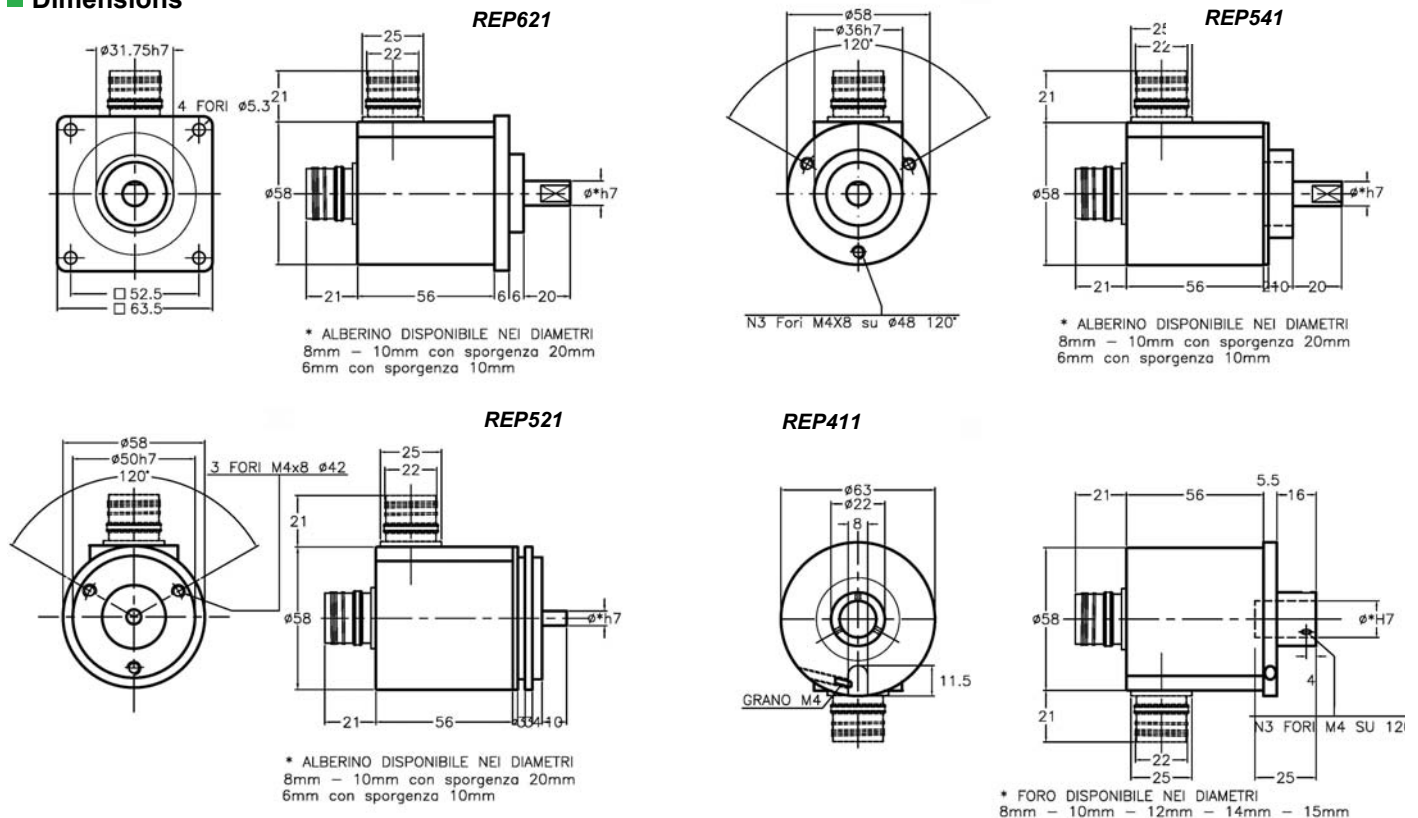
Pulse code	Incremental
Pulses/revolution	8, 10, 16, 20, 25, 32, 40, 50, 64, 80, 100, 125, 128, 200, 250, 256, 400, 500, 512, 1024, 2048
Zero pulse	1 pulse each revolution
Output signals	Two square waves 90° ±15° out of phase - Zero pulse width: 90°±15°
Electronic output	Push-pull or line driver - Signals 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



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### ALThERIS bv

Scheveningseweg 15  
2517 KS DEN HAAG  
The Netherlands

+31 (0)70 3924421

+31 (0)70 3644249

Offices in : Benelux | Germany | France | UK | Italy | USA

www.altheris.com

sales@altheris.nl

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