







INCREMENTAL ROTARY ENCODERS series REC

- Compact-sized encoders
- Pulses per revolution: 2 to 12500
- Aluminium housing
- Connections by cable or M12 connector



MECHANICAL VERS	IONS			
REC520	REC540	REC620	REC440	REC450
Round flange Ø 58 mm	Round flange Ø 58 mm	Square flange 63.5x63.5	Hollow shaft	Hollow shaft
Servo coupling	Centering mask Ø 36 mm	mm	Ø 8, 10, 12, 14, 15 mm	Ø 8, 10, 12, 14, 15 mm
Centering mask Ø 50 mm	Shaft Ø 6, 8, 9.52, 10 mm	Centering mask Ø 31.75	Antirotational fixing	Fixing by elastic support
Shaft Ø 6, 8, 9.52, 10 mm		mm		
SYNCHRO FLANGE	CLAMPING FLANGE	Shaft Ø 6, 8, 9.52, 10 mm		

MECHANICAL & ENVIROR	NMENTAL SPECI REC520/540/620	
 Materials: housing shaft 	Alumi Steel A	
Weight	210 g	circa
• Shaft/jHollow shaft Ø mm	10, 9.52, 8, 6	8, 10, 12, 14, 15
Revolutions/minute	6000 continuos/1	0000 temporary
Starting torque	≤0.8	Ncm
Inertia	≤25 g	j cm ²
Max load	80 N axial/1	00 N radial
 Vibration resistance (10÷2000 Hz) 	100 m	n/sec ²
Shock resistance (11 ms)	50	G
Protection degree	IP	65
Operating temperature	-10 ÷	70°C
Stocking temperature	-20 ÷	80°C

ELECTRICAL & OPE	RATING 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	Radial cable 1 m long 5-pin M12 radial plug connector 8-pin connector for line driver output Optional: tap connector with cable









520	R
020	r

Push Pull SIGNALS	5-pin connector	Cable colours	Line Driver SIGNALS	8-pin connector	Cable colours
IONALO	o-pin connector	Oubic colours	OIOINALO	o-pin connector	Oubic colours
Out 1	pin 2	White	Out 1	pin 1	White
Out 2	pin 4	Green	Out 2	pin 3	Green
Out Z (types with 0)	pin 5	Brown	Out Z(solo con 0)	pin 5	Grey
+ Vdc	pin 1	Red	+ Vdc	pin 8	Red
0V	pin 3	Blue	0V	pin 7	Blue
		Shield	Out 1	pin 2	Brown
			Out 2	pin 4	Yellow
			Out Z	pin 6	Pink
					Shield

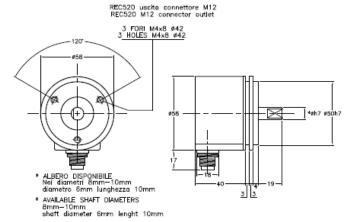
ORDERING INFORMATION

PP **REC520** C 100 5/30 R 10 **OUTPUT SIGNALS** PP Push-pull LD Line-driver LD5V Line driver 5 Vdc SHAFT/HOLLOW SHAFT Ø Shaft 6 - 8 - 9.52 - 10 mm Hollow shaft 8 - 10 - 12 - 14 -CONNECTION POSITION R radial SUPPLY VOLTAGE 5/30 Vdc PULSES/REVOLUTION 2-12500 CONNECTION TYPE - Connector M12 C Cable

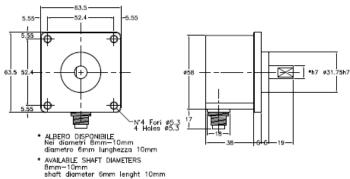
CERTIFICATE NO.E510647
UL listed versions
available
(Encoder with M12 connector)

REC520 Round flange, mask 50 mm
REC540 Round flange, mask 36 mm
REC620 Square flange
REC440 Hollow shaft
REC450 Hollow shaft and elastic support

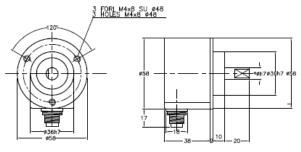
ELAP RESERVES THE RIGHT TO UPDATE THE PRODUCT WITHOUT NOTICE



REC620 uscita connettore M12 REC620 M12 connector outlet

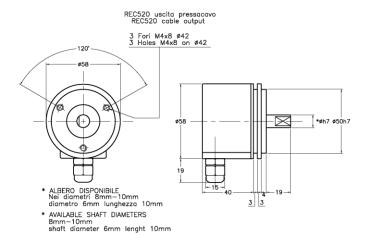


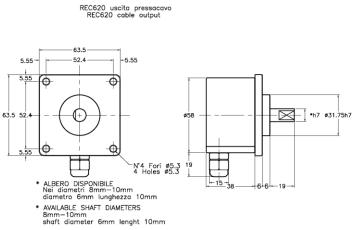
REC540 uscita connettore M12 REC540 M12 connector outlet

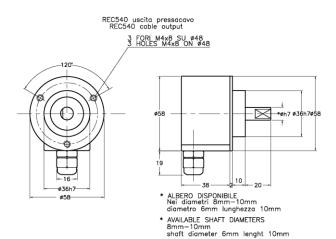


ALBERINO DISPONIBILE
Nei diametri 8mm—10mm
diametro 6mm lunghezza 10mm
AVAILABLE SHAFT DIAMETERS
8mm—10mm
shaft diameter 6mm lenght 10mm

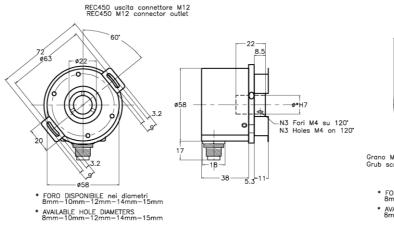
Ref M1483V

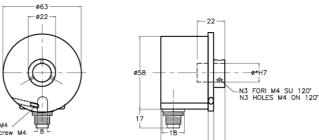






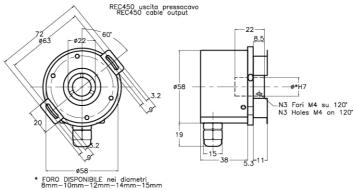
DIMENSIONS



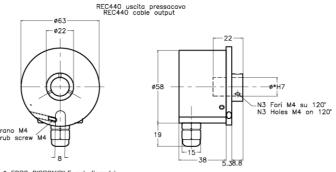


REC440 uscita connettore M12 REC440 M12 connector outlet

- * FORO DISPONIBILE nei diametri 8mm-10mm-12mm-14mm-15mm
- * AVAILABLE HOLE DIAMETERS 8mm-10mm-12mm-14mm-15mm



* AVAILABLE HOLE DIAMETERS 8mm-10mm-12mm-14mm-15mm



- * FORO DISPONIBILE nei diametri 8mm-10mm-12mm-14mm-15mm
- * AVAILABLE HOLE DIAMETERS 8mm-10mm-12mm-14mm-15mm

Ref. M1540



REFERENCES

Further information at:

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

