

Main characteristics

Miniaturised encoder Ø42 series for general applications.

- Up to 2.000 ppr with zero for EL series
- Different output types available.
- Up to 28 Vdc input voltage.
- Up to 100 kHz frequency response
- Output cable. Cable connector available on request.
- Several flanges available
- Up to 3.000 rpm speed rotation
- IP54 sealing



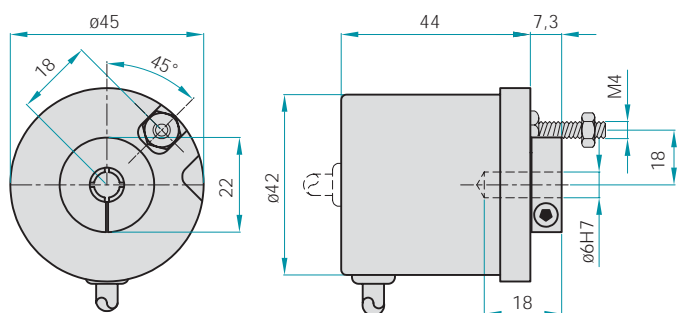
Ordering code

Full stop to separate special versions.													
EL	40	G	1000	Z	5/28	P	6	X	3	P	R	. XXX	
Incremental encoder series EL		body dimension 40		Type of flanges mod. EL40 G G mod. EL40 GR GR		Resolutions PPR: series EL from 1 to 2000 <i>Please, directly contact our offices for pulses availability</i>		Zero pulse without zero pulse S with zero pulse Z		Input voltage input voltage EL 5 ÷ 28 <i>LINE DRIVER available only with input voltage 5 Vdc 8 ÷ 24 Vdc</i>		R.P.M. 3 3000	
								Enclosure rating X standard IP54		Bore diameter 6 ø 6 H 7 mm EL40 G/GR (hole) 8 ø 8 H 7 mm only EL40 GR 9 ø 9.52 H 7 mm only EL40 GR 10 ø 10 H 7 mm only EL40 GR		Output types N NPN C NPN OPEN COLLECTOR P PUSH PULL L LINE DRIVER <i>For optionals about output types please refer to incremental outputs section</i>	
										P cable output (standard length 0.5 m)		R radial A axial XXX Special version code numbered from 001 to 999	

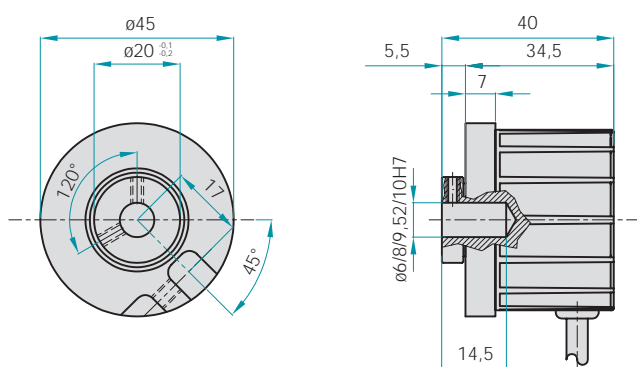
Hollow shaft incremental encoder

EL 40 G / GR

EL 40 G



EL 40 GR



HOW TO MOUNT IT

- 1) Fix the antirotation pin on the motor flange
- 2) Couple the encoder shaft with the motor shaft, ensuring that the pin is inserted on the cave on the frontal part of the encoder (maintaining a minimum distance of 0,5 mm)
- 3) Fix the encoder shaft by the metal ring

Electrical specifications

Resolution	from 1 to 2000 PPR
Input voltage	5 ÷ 28 Vdc LINE DRIVER available only with input voltage 5 / 8÷24 Vdc
Input current with no output load	100 mA Max
Source and sink current	50 mA for channel 20 mA for channel LINE DRIVER
Output types	NPN / NPN OPEN COLLECTOR / PUSH PULL / LINE DRIVER
Output frequency	100 KHz Max
Frequency response	$F = \frac{\text{RPM} \times \text{Resolution}}{60}$

Mechanical specifications

Bore diameter	$\varnothing 6h7$ mm $\varnothing 8/9.52/10$ h7	EL40 G/GR EL40 GR
Enclosure rating	IP54 standard	
Shaft speed	3000 RPM	
Max shaft load	5N (0.5 Kp) axial 5N (0.5 Kp) radial	
Shock	50 G for 11 msec	
Vibrations	10G 10 ÷ 2000 Hz	
Bearings life	10^9 revolutions	
Bearings	n° 2 ball bearings	
Shaft material	Stainless steel AISI303	
Body material	Aluminium D11S - UNI 9002/5	
Housing material	PA 66 reinforced with fiber glass	
Operating temperature	0° ÷ +60°C	
Storage temperature	-25° ÷ +70°C	
Weight	150 g	

