

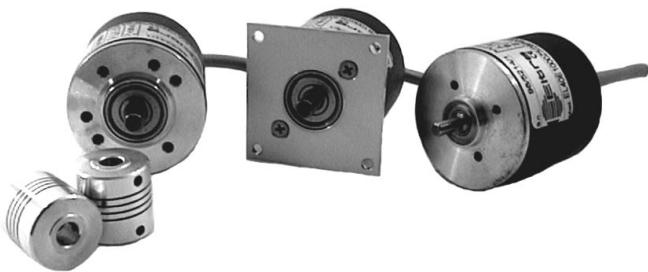


EH-EL40A / B / C / E INCREMENTAL ENCODERS

Incremental encoders

Series of miniaturized encoders ø42 for general applications.

- Resolutions up to 2000 imp./turn with zero for EL series and up to 400 imp./turn for the EH series.
- Different electronic configurations available with power supply up to 28 Vdc for the EL series and up to 24 Vdc for the EH series
- Max output frequency up to 100 KHz for the EL series and up to 40KHz for the EH series
- Output cable, eventual connector applied to the end of the cable
- Different flanges available
- Speed rotation up to 6000 rpm
- Protection IP66



Ordering codes

In case of particular Customer variant separate with a full stop

EL 40 A 500 Z 5/28 N 6 X 6 P R . XXX

EL = incremental encoder EL series
EH = incremental encoder EH series

40 = body dimension

A = mod.EH-EL40A
B = mod.EH-EL40B
C = mod.EH-EL40C
E = mod.EH-EL40E

Type of flanges

from **1** to **2000** imp./turn EL series **Resolutions**
from **50** to **400** imp./turn EH series
N.B.: For impulse availability contact directly our offices

S = without zero impulse **Zero Impulse**
Z = with zero impulse (only EL series)

5 ÷ 28 = power supply for the EL series
5 / 8 ÷ 24 = power supply for the EH series **Encoder power supply (Vdc)**
N.B.: LINE DRIVER available only with 5 Vdc or 8 ÷ 24 Vdc power supply

XXX = Particular Customer variants indicated by a progressive number from 001 to 999

R = radial
A = axial

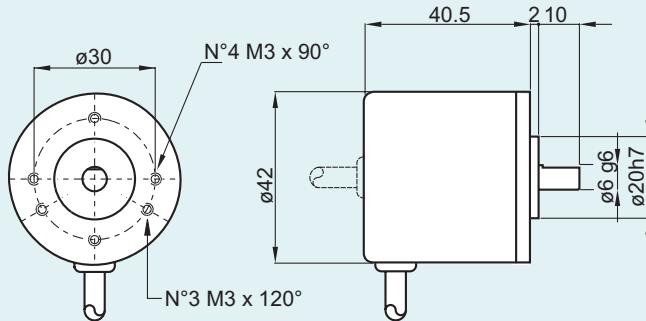
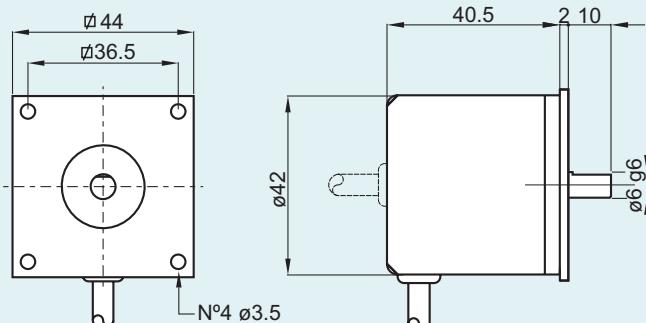
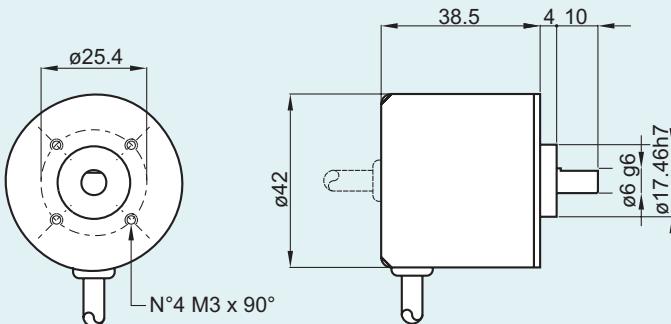
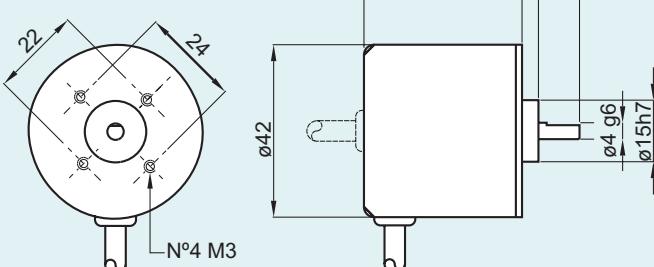
P = standard output cable 0.5 m

3 = 3000 EH-EL40C / E **R.P.M.**
6 = 6000 EL40A / B

X = standard IP54 **Protection**
S = optional IP66

4 = ø 4 mm EH-EL40E
6 = ø 6 mm EH-EL40A / B / C **Shaft diameter**

N = NPN
C = NPN OPEN COLLECTOR
P = PUSH PULL
L = LINE DRIVER (only the EL series)
N.B.: For the options on the output configurations see the output incremental connections card

EH-EL40A**EH-EL40B****EH-EL40C****EH-EL40E****Electronic Characteristics EL Series**

Resolutions	From 1 to 2000 impulses / turn
Power supply	5 + 28 Vdc N.B.: LINE DRIVER only with 5 / 8+24 Vdc power supply
Current consumption without load	80 mA
Max commutable current	50 mA per channel 20 mA per channel with LINE DRIVER
Electronic output configuration	NPN / NPN OPEN COLLECTOR / PUSH PULL / LINE DRIVER
Max output frequency	Max 100 KHz $F = \frac{\text{RPM} \times \text{Resolutions}}{60}$

Electronic Characteristics EH Series

Resolutions	From 50 to 400 impulses / turn
Power supply	5 Vdc / 8 + 24 Vdc N.B.: LINE DRIVER only with 5 / 8+24 Vdc power supply
Current consumption without load	50 mA bidirectional
Max commutable current	50 mA per channel 20 mA per channel with LINE DRIVER
Electronic output configuration	NPN / NPN OPEN COLLECTOR / PUSH PULL / LINE DRIVER
Max output frequency	Max 40 KHz $F = \frac{\text{RPM} \times \text{Resolution}}{60}$

Mechanical characteristics

Shaft diameter (mm)	Ø4 g6 EH-EL40E Ø6 g6 EH-EL40A / B / C
Protection	IP54 - Standard EH-EL40C / E IP64 - Optional EH-EL40A / B
R.P.M. Max	3000 continuous EH-EL40C / E 6000 continuous EL40A / B
Max shaft load	5N (0.5 Kp) axial 5N (0.5 Kp) radial
Shock	50 G per 11 msec
Vibrations	10G 10 ± 2000 Hz
Bearings life	10^9 revolutions
Bearings	n°2 ball bearings
Shaft material	Stainless steel AISI303
Body material	AluminiumD11S - UNI 9002/5
Cover material	Special plastic reinforced with glass fibre
Operating Temperature	0° + +60°C
Storage Temperature	-25° + +70°C
Weight	100 g

