

Main characteristics

Miniaturized Ø30 encoder series. Used when a minimal size is required even providing excellent performances.

- Up to 1024 ppr with Zero.
- Several output types available.
- Up to 24 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
- Up to IP54 sealing



Ordering code

Full stop to separate
special version

EL 30 E 50 Z 5 N 4 X 3 P A . XXX

incremental encoder series **EL**

body dimension **30**

Type of flanges

mod.EL 30 E **E**

mod.EL 30 H **H**

mod.EL 30 I **I**

Resolutions

PPR: from **1** to **1024**

Please, directly contact our offices for pulses availability

Zero pulse

without zero pulse **S**

with zero pulse **Z**

Input voltage

5
8 ÷ 24

Special version
code numbered
from 001 to 999

A axial

P cable output (standard length 0,5 m)

R.P.M.

3 3000

Enclosure rating

X standard IP54

Shaft diameter

4 ø 4g6 EL 30 E

6 ø 6g6 EL 30 H/I /E

Output types

N NPN

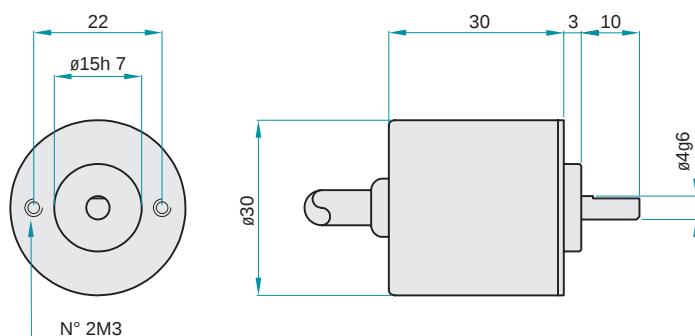
C NPN OPEN COLLECTOR

P PUSH PULL

L LINE DRIVER

For optionals about output types please refer to incremental section

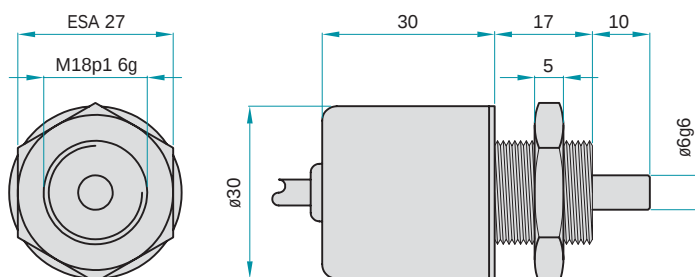
EL 30 E



Electrical specifications

Resolution	from 1 to 1024 PPR
Input voltage	5Vdc / 8 ÷ 24 Vdc
Input current with no output load	Max 100 mA
Source and sink current	50 mA for channel 20 mA for channel with LINE DRIVER
Output types	NPN / NPN OPEN COLLECTOR / PUSH PULL / LINE DRIVER
Output frequency	100 KHz Max
Frequency response	$F = \frac{RPM \times Resolution}{60}$

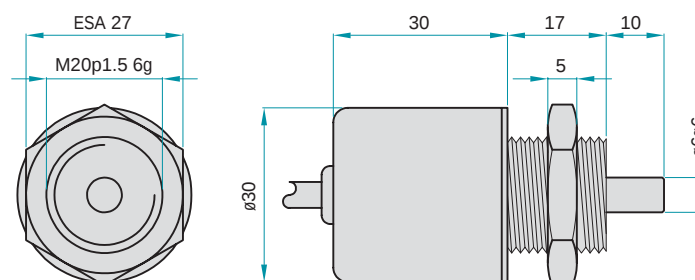
EL 30 H



Mechanical specifications

Shaft diameter	ø4 g6 EL 30 E ø6 g6 EL 30 H/I/E
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	50 g

EL 30 I



Main characteristics

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Up to 24 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
- Up to IP54 sealing



Ordering code

Full stop to separate
special versions

EH 38 A 500 Z 5 N 6 X 3 P R . XXX

incremental encoder series **EH**

body dimension **38**

Type of flange

mod.EH 38 A **A**
mod.EH 38 B **B**
mod.EH 38 D **D**

Resolution

PPR: from **40** to **1024**
Please, directly contact our offices for pulses availability

Zero pulse

without zero pulse **S**
with zero pulse **Z**

Input voltage

5
8 ÷ 24

R radial

P cable output (standard length 0,5 m)

Special version
code numbered
from 001 to 999

R.P.M.

3 3000

Enclosure rating

X standard IP54

Shaft diameter

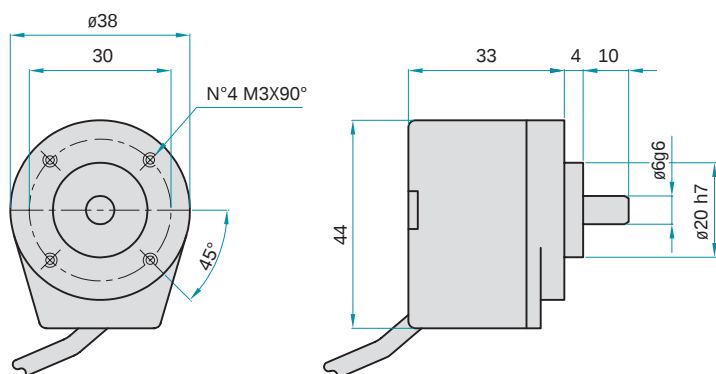
6 Ø 6 g6

Output types

N NPN
C NPN OPEN COLLECTOR
P PUSH PULL
L LINE DRIVER

For optionals about output types please refer to incremental output section

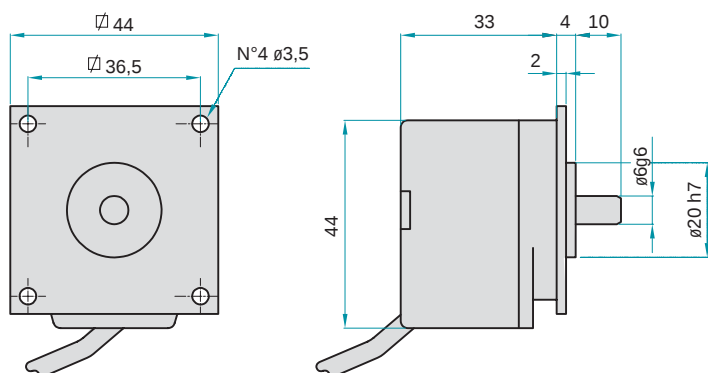
EH 38 A



Electrical specifications

Resolution	From 40 to 1024 PPR
Input voltage	5Vdc / 8 ÷ 24 Vdc
Input current with no output load	100 mA Max
Source and sink current	50 mA for channel 20 mA for channel with LINE DRIVER
Output types	NPN / NPN OPEN COLLECTOR / PUSH PULL / LINE DRIVER
Output frequency	100 KHz Max
Frequency response	$F = \frac{\text{RPM} \times \text{Resolution}}{60}$

EL 38 B



Mechanical specifications

Shaft diameter	Ø6 mm g6
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 UNI 5076
Housing material	PA 66 reinforced with fiber glass
Operating temperature	0° ÷ +60°C
Storage temperature	-25° ÷ +70°C
Weight	100 g

EH 38 D

