



# EH150P INCREMENTAL ENCODER



## Incremental encoder

Ø150 encoder series through hollow shaft used on motors.

- Up to 78mm bore diameter
- Easy and safe fixing
- Rugged mechanics
- Up to 5,040 ppr with Zero
- Several output types available.
- Up to 24 Vdc input voltage.
- Up to 100 kHz frequency response
- Up to 1.000 rpm speed rotation
- Up to IP40 sealing



## Ordering code

Full stop to separate special versions.

EH 150 P 1024 Z 5 N 50 X 1 P R . XXX

Incremental encoder series EH

Body dimension 150

hollow shaft P

Resolutions

1024 - 5040 PPR

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)

R.P.M.

1 1000

Enclosure rating

X standard IP40

S IP65 with special work condition

Bore diameter

50 ø 50H7 mm

60 ø 60H7 mm

70 ø 70H7 mm

78 ø 78H7 mm

Output types

N NPN

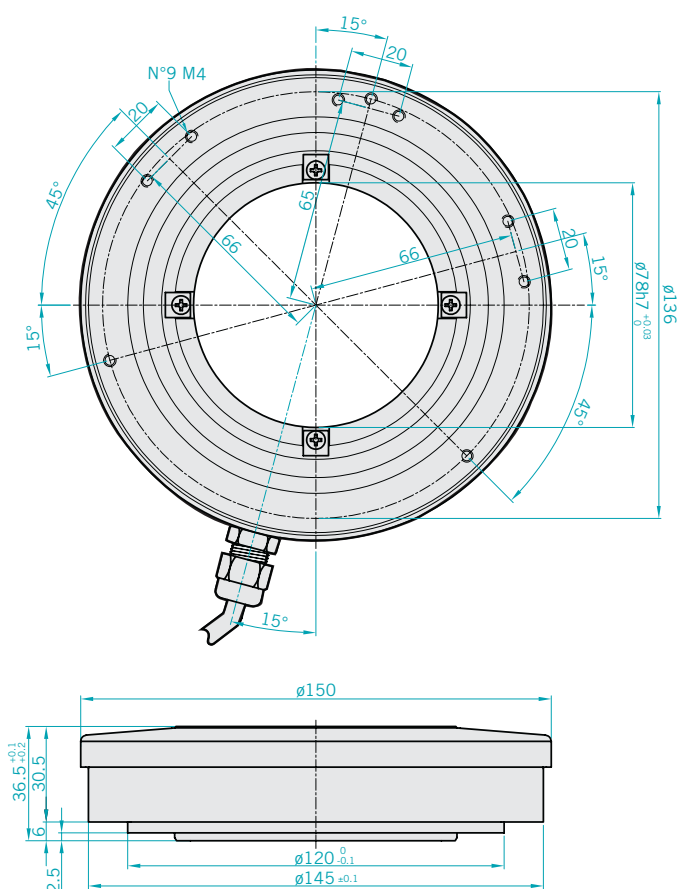
C NPN OPEN COLLECTOR

P PUSH PULL

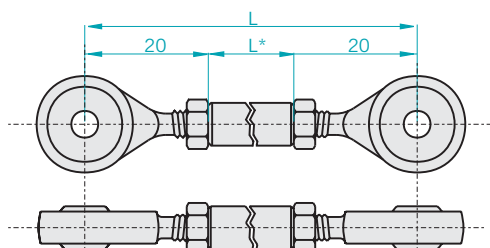
L LINE DRIVER

For optionals about output types please refer to incremental outputs section

# EH150



## Accessories



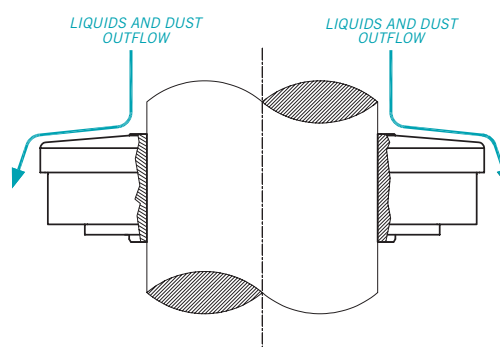
## Electrical specifications

Resolution	From 1024 to 5040 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
Frequency response	100 KHz Max $F = \frac{\text{RPM} \times \text{Resolution}}{60}$

## Mechanical specifications

Bore diameter	ø50 / 60 / 70 / 78 mm H7
Enclosure rating	IP40 standard IP65 with special work condition
Shaft speed	1000 RPM
Bearings	n° 1 ball bearings
Shaft material	Aluminium D11 S UNI9002/5
Housing material	Aluminium
Operating temperature	0° ÷ +60°C
Storage temperature	-25° ÷ +70°C
Weight	1000g

Ideal working condition to obtain IP65 protection



## Available lengths

L* = 30 mm	Ordering code: SN5A30
L* = 60 mm	Ordering code: SN5A60
L* = 90 mm	Ordering code: SN5A90



**Eltra**

www.eltra.it e-mail: eltra@eltra.it  
Via Monticello di Fara, 32 bis - Sarego (VI) - ITALY - Tel. +39 0444 436489 R.A. - Fax +39 0444 835335  
© Copyright 2005 Eltra S.r.l. - All right reserved. All information in this catalog is subject to change without notice - ELTRA takes no responsibility for typographical errors.  
For the terms of sales please check the website: www.eltra.it