



EH- EL72A/B INCREMENTAL ENCODER



Incremental encoder

Standard encoder series for industrial environments with high mechanical resistance requirements. Those encoders are designed to face high radial and axial shaft load and they can be mounted with flanges or servo-fasteners. Specifically designed for direct mounting on motors or tachometer generators. Our integrated elastic couplings allows radial and axial slack compensation

- Up to 10.000 ppr with zero for EL series, Up to 1024 ppr for EH series. Several output types available.
- Up to 28 Vdc input voltage for EL series and up to 24 Vdc for EH series.
- Up to 300 kHz frequency response for EL series and up to 100 kHz for EH series
- Output cable with connector.
- Several flanges available
- Up to 6.000 rpm speed rotation
- Up to IP66 sealing



Ordering code

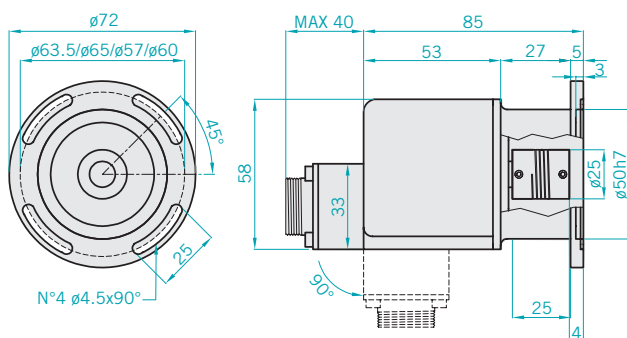
Full stop to separate special versions.

EL	72	1	A	1000	Z	5/28	N	10	X	6	M	R	.	XXX
Incremental encoder series EL														Special version code numbered from 001 to 999
Incremental encoder series EH														
Body dimension 72														
ø 63,5 mm	1													
ø 65 mm	2													
ø 57 mm	3													
ø 60 mm	4													
mod.EH-EL72B		A												
mod.EH-EL72B		B												
Resolutions														
from 1 to 10000 PPR series EL														
from 40 to 1024 PPR series EH														
Please, directly contact our offices for pulses availability														
Zero pulse														
without zero pulse		S												
with zero pulse		Z												
Input voltage														
input voltage EL		5 ÷ 28												
input voltage EH		5/8 ÷ 24												
LINE DRIVER available only with input voltage 5 Vdc 8 ÷ 24 Vdc														
R.P.M.														
3 3000														
6 6000														
Enclosure rating														
X standard IP54														
S optional IP66														
Bore diameter														
6 ø 6 H7 mm														
8 ø 8 H7 mm														
10 ø 10 H7 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														

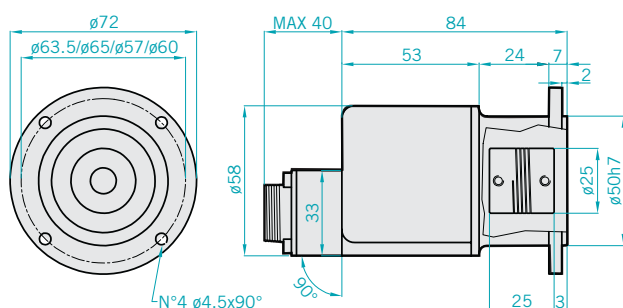
hollow shaft INCREMENTAL ENCODERS

EH-EL72A/B

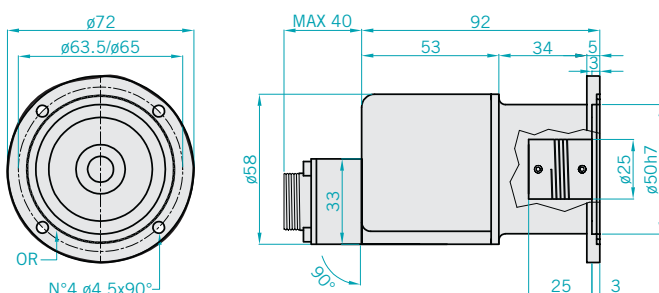
EH-EL72 mod. A



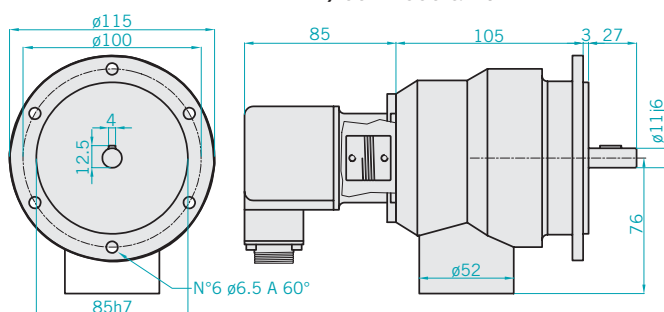
EH-EL72 mod. B



EH-EL72 mod. A version IP66



Application on tachimetric dynamo
AVAILABLE DYNAMO A) 20V-1000 turn/min
B) 60V-1000 turn/min



EL series electrical specifications

Resolution	from 1 to 10000 PPR
Input voltage	5 ÷ 28 Vdc LINE DRIVER only available 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 with LINE DRIVER
Output types	NPN / NPNOPEN COLLECTOR/ PUSH PULL / LINE DRIVER
Frequency response	300 KHz Max $F = \frac{RPM \times Resolution}{60}$

EH series 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 / NPNOPEN COLLECTOR/ PUSH PULL / LINE DRIVER
Frequency response	100 KHz Max $F = \frac{RPM \times Resolution}{60}$

Mechanical specifications

Bore diameter	$\phi 6 / 8 / 10$ mm h7
Enclosure rating	IP54 standard IP66
Shaft speed	3000 RPM 6000 RPM 3000 turn MAX with "S" rating
Shock	50 G for 11 msec (with plastic disc) 20 G for 11 msec (with glass disc)
Vibrations	10G 10 ÷ 2000 Hz
Bearings life	10^9 revolutions
Bearings	n° 2 ball bearings
Shaft material	Stainless steel AISI303
Body material	Aluminium - UNI5076
Housing material	PA 66 reinforced with fiber glass
Operating temperature	$0^\circ \div +60^\circ C$
Storage temperature	$-25^\circ \div +70^\circ C$
Weight	400 g
Accessories	precision elastic couplings G25A6/10 G25A8/10 G25A10

hollow shaft INCREMENTAL ENCODERS

IN00810305A

EH-EL72A/B

