



Eltra®

EL30 E/H/I INCREMENTAL ENCODER



ISO 9001:2000



Incremental encoder

Shaft incremental encoders

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

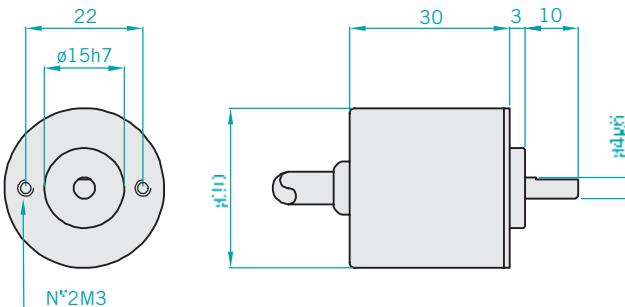
- Up to 1024 ppr with Zero.
- Several output types available.
- Up to 24 Vdc input voltage.
- Up to 100 kHz frequency response
- Output cable. Cable connector available on request.
- Several flanges available
- Up to 3.000 rpm speed rotation
- Up to IP54 sealing



Ordering code

EL	30	E	50	Z	5	N	4	X	3	P	A	.	XXX
Full stop to separate special version													
incremental encoder series	EL												Special version code numbered from 001 to 999
body dimension	30	I											
Type of flanges													
mod.EL 30 E	E												
mod.EL 30 H	H												
mod.EL 30 I	I												
Resolutions													
From 1 to 1024 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.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 options about output types please refer to incremental section													

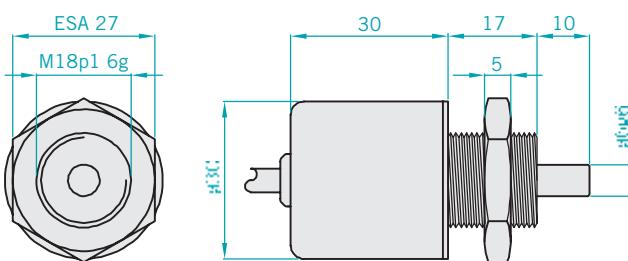
EL 30 E



Electrical specifications

Resolution	From 1 to 1024 PPR
Input voltage	5Vdc / 8 ÷ 24 Vdc
Input current with no output load	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
Output frequency	100 KHz Max
Frequency response	$F = \frac{\text{RPM} \times \text{Resolution}}{60}$

EL 30 H



Mechanical specifications

Shaft diameter	Ø4 mm g6 EL 30 E Ø6 mm 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

