

MAIN FEATURES

Incremental linear system.

- Working stroke up to 500 mm.
- Available with or without zero mark on left, right or central position.
- Several electronic output configurations available. Up to 24 V DC power supply.
- Cable output. Cable with connector at the end available on demand.



OTHER PRODUCTS

ORDERING CODE

ER A 100 D 5 L 6 P . XXX

SERIES
incremental linear
encoder **ER**

RESOLUTION
0,2 mm (0,05 mm reading all edges) **A**
0,1 mm (0,025 mm reading all edges) **B**
0,04 mm (0,01 mm reading all edges) **C**
1 mm (0,25 mm reading all edges) **D**
0,5 mm (0,125 mm reading all edges) **E**
0,2 mm (0,05 mm reading all edges) **F**

WORKING STROKE
working stroke (mm) from **100** to **500**

ZERO PULSE
without zero pulse **S**
central zero index (only mod. A) **C**
right zero index (closed position) (only mod. A) **D**
left zero index (open position) (only mod. A) **Z**

VARIANT
XXX custom version

OUTPUT TYPE
P radial cable output with cable gland (standard length 1.5 m)

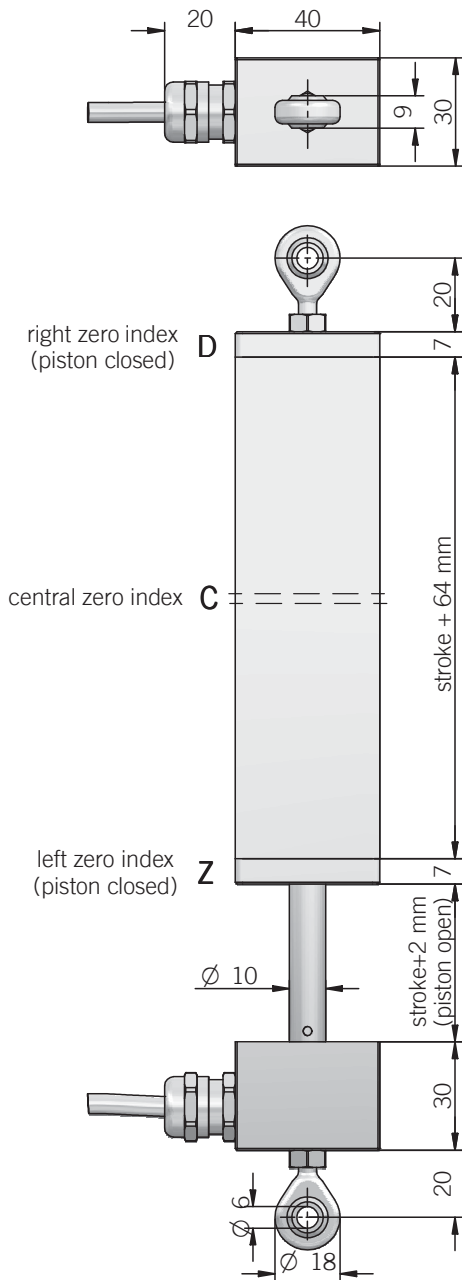
FIXING HOLE DIAMETER
6 mm

OUTPUT TYPE
N NPN (only mod. A)
C NPN open collector (only mod. A)
P push pull
L line driver

POWER SUPPLY
5 5 V DC
8/24 8 ... 24 V DC

ERA/B/C/D/E/F

ERA/B/C/D/E/F



Electrical specifications

Technology	optical mod. A magnetic mod. B / C / D / E / F
Resolution	1 mm (0,25 mm reading all edges) 0,5 mm (0,125 mm reading all edges) 0,2 mm (0,05 mm reading all edges) 0,1 mm (0,025 mm reading all edges) 0,04 mm (0,01 mm reading all edges)
Linearity error	±0,25 mm max (ER D) ±0,125 mm max (ER E) ±0,05 mm max (ER A/F) ±0,025 mm max (ER B) ±0,01 mm max (ER C)
Power Supply	5 V DC ± 10% 8 ... 24 V DC ± 5%
Current consumption without load	50 mA max
Max load current	50 mA for channel (NPN / NPN open) 20 mA for channel (push pull / line driver)
Electronic interface	NPN (only mod. A) NPN open collector (only mod. A) line driver push-pull
Electromagnetic compatibility	IEC 61000-6-2 IEC 61000-6-4

Caratteristiche meccaniche

Working stroke	from 100 to 500 mm
Enclosure rating	IP 64
Travel speed	1 m/s max
Shock	50 G, 11 ms (IEC 60068-2-27)
Vibrations	10 G, 10 ... 2000 Hz (IEC 60068-2-6)
Rod material	1.4305 / AISI 303 stainless steel
Housing material	painted aluminum
Fixing	2 joint heads with \varnothing 6 mm hole
Operating temperature	-10° ... +60 °C
Storage temperature	-25° ... +70 °C
Weight	from 400 g to 1000 g

Connections and standard colours

Function	Push pull / Npn / Npn open collector	Line driver
+V DC	red	red
0 V	black	black
Ch. A	green	green
Ch. A-	/	brown
Ch. B	yellow	yellow
Ch. B-	/	orange
Ch. Z	blue	blue
Ch. Z-	/	white
\equiv	shield	shield

