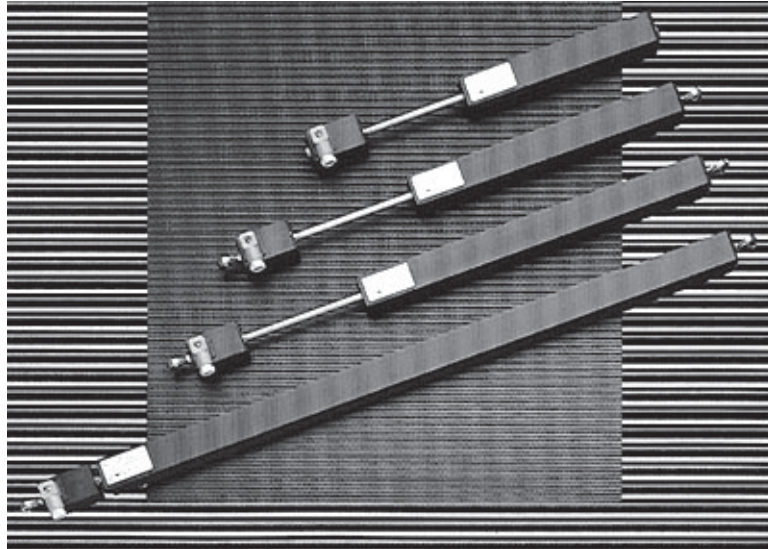


NORDIC TRANSDUCER

Serie PD 0.01... 0.005mm

elap Incremental Transducers



SERIE PD100 & PD500

ELAP incremental transducers are based upon an optical reading system which ensures high reading resolutions.


Their stout mechanical case and the shaft sealing guarantee high protection degree to IP65.

Fixing is obtained by means of clamping feet or by ball joints mounted at the ends.

PE can be employed as contact gauges to measure thickness all over in the industry of to day where accurate thickness or length measurements is asked for.

PE transducers maintain the original accuracy grade constant in the long term.

Coupling to pneumatic or hydraulic displacement systems also results successfully, as well as the application to cylinders which already use a ball joint fixing method.

ELAP product range includes different digital transducer versions for all types of applications and all complying with the  standard.

Other stem types:

PE 200 + 200 micron = 0.1mm indication, max. 990mm, plastic graduated scale.

Other Digital linear types:

KP 10, 400 micron, = 0.1mm indication, max. 700mm, stainless steel element.

KP 100, 40 micron, = 0.01mm indication, max. 700mm, stainless steel element.

KP 200, 20 micron, = 0.005mm indication, max. 700mm, stainless steel element.

KD 10, 400 micron, = 0.1mm indication, max. 5.000mm, stainless steel element.

KD 100, 40 micron, = 0.01mm indication, max. 5.000mm, stainless steel element.

KD 200, 20 micron, = 0.005mm indication, max. 2.000mm, stainless steel element.

KD 1000, 40:10 micron, = 0.001mm indication, max. 1.500mm, stainless steel element.

ELAP complete instrument program is available for all these types !

+ PC software from DasyLab



ELAP PD - INCREMENTAL LINEAR TRANSDUCER



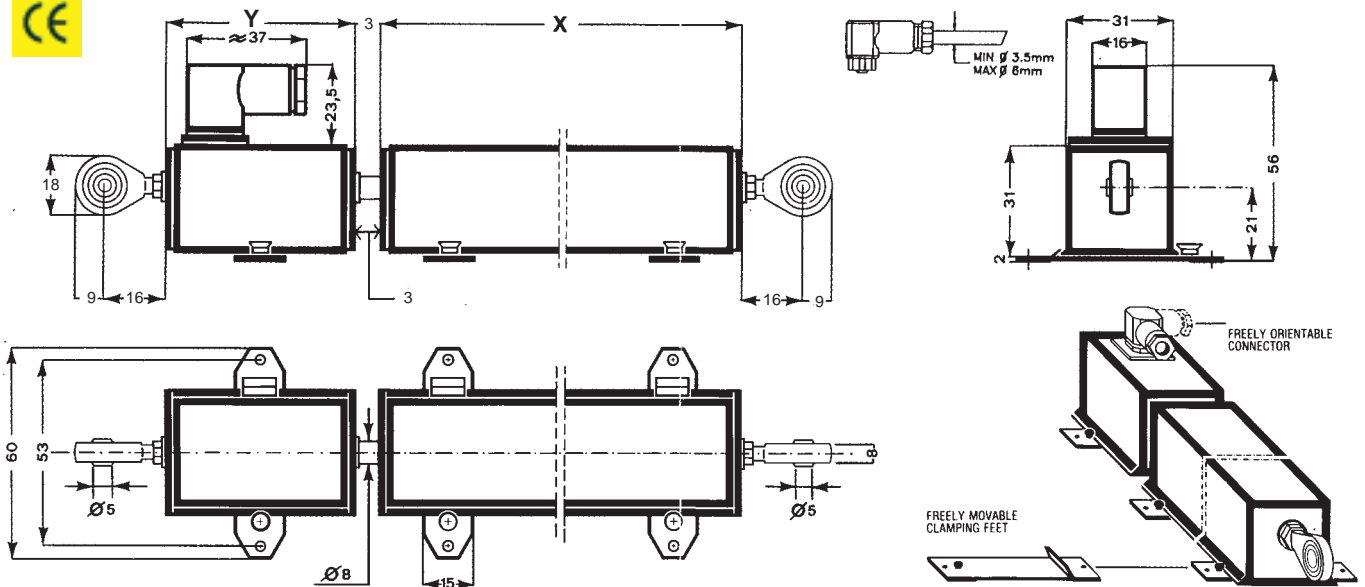
NORDISK TRANSDUCER

PD100 / 500 - GENERAL SPECIFICATIONS

Operating principle: optoelectronic reading on float glass scale
 Grating pitch: 20 + 20 micron (PD500 10 + 10 micron)
 Reading resolution: PD100 = 0.01mm
 PD500 = 0.005mm
 after electronic quadrupling
 Zero pulses (option) Standard 1 at mid-stroke, or placed according to requirements with 1 or several points.
 Thermal expansion of the glass measuring element: $18 \times 10^{-6} / ^\circ\text{C}$
 Lighting source: LED
 Supply: 10 - 24 VDC
 5VDC for line driver output
 Current consumption: PD100 Max. 50mA, 90 mA for line driver
 PD500 Max. 125mA for line driver out
 Output signal: 2 square waves 90 ± 15 electr. degree out of phase
 Reference (zero) signal: 0.05mm wide.
 Electronic output: PD100 push-pull (max.50 mA),
 Open collector NPN (max. 50mA 30V)
 Line driver PD100 / 500 (26LS31)

PD - MECHANICAL SPECIFICATIONS

Protection degree: IP65
 Max. speed: 60m/min
 Max. acceleration: 40m/sec²
 Zero pulse max. speed 12m/min
 Progress strength: 1 - 3 N
 Stem: Stainless steel 8 mm
 Case: In Anodised aluminium
 Fixing: Metal clamping feet placed along the body / or possibility to apply ball joints at both ends.
 Operating Temperature: 0 -50°C



PD - CONNECTOR SIGNAL

Open collector / push pull output

- 1 signal A
- 2 signal B
- 3 0 V
- 4 + V supply
- 5 shield
- 6 signal Z



PD - CONNECTOR SIGNAL

Line driver output

- A signal A
- B signal \bar{A}
- C signal B
- D signal \bar{B}
- E signal Z
- F signal \bar{Z}
- G
- H shield
- J 0 V
- K + V supply



| Type | Stroke | X |
|---------------|--------|-----|
| 100 or 500 | | |
| PD 100 060 PP | 60 | 153 |
| PD 100 120 PP | 120 | 213 |
| PD 100 170 PP | 280 | 263 |
| PD 100 200 PP | 200 | 293 |
| PD 100 220 PP | 220 | 313 |
| PD 100 255 PP | 255 | 348 |
| PD 100 280 PP | 280 | 372 |
| PD 100 360 PP | 360 | 512 |
| PD 100 440 PP | 440 | 592 |
| PD 100 520 PP | 520 | 673 |
| PD 100 650 PP | 650 | 813 |
| PE 100 750 PP | 750 | 913 |

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Total length = X + 3mm + Y + 1 or 2 Rod end bearings

Y dimension depending on type

PD 100 Y = 65mm

PD 500 Y = 82mm