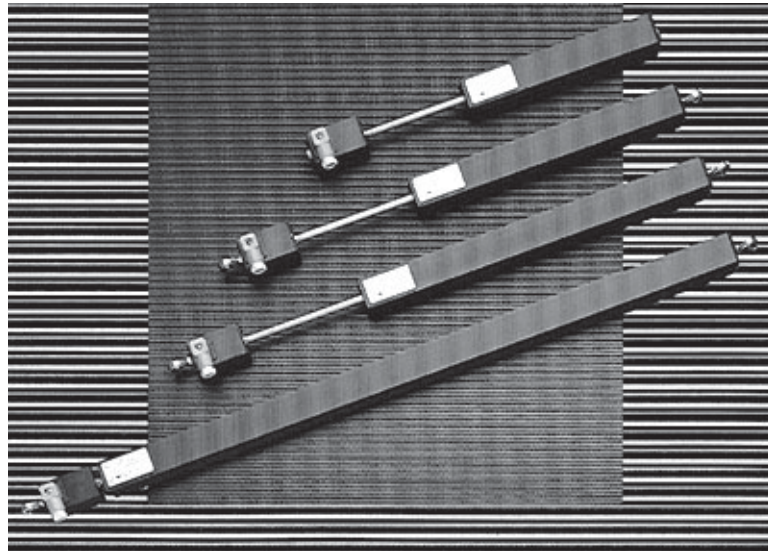


Serie PE 0.1mm elap Incremental Transducers



SERIE PE

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:

PD 100, 20 + 20 micron = 0.01mm indication, max. 750mm, glass graduated scale.

PD 500, 10 + 10 micron = 0.005mm indication, max. 750mm, glass 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.

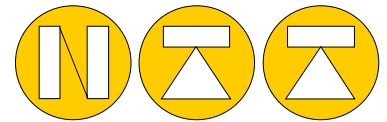
KD 1000, 40:10 micron, = 0.001mm indication, max. 1.500mm, stainless steel element.

ELAP complete instrument program is available for all these types !

+ PC software from DasyLab



ELAP PE - INCREMENTAL LINEAR TRANSDUCER



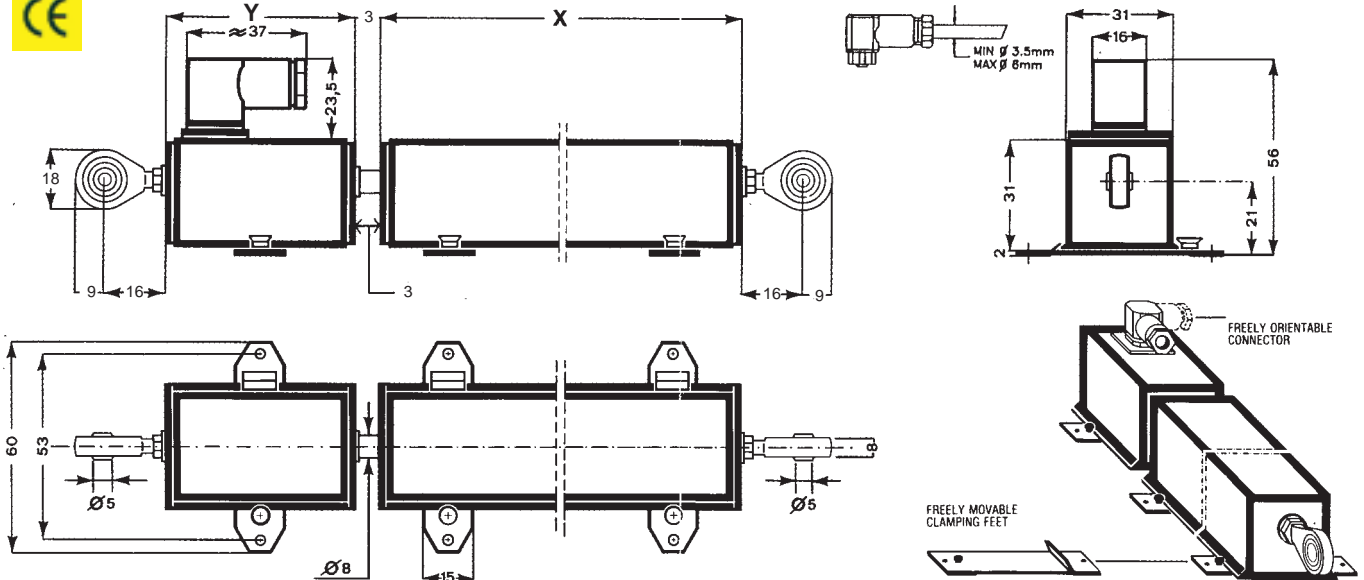
NORDIC TRANSDUCER

PE - GENERAL SPECIFICATIONS

Operating principle: optoelectronic reading on graduated scale
 Grating pitch: 200 + 200 micron
 Reading resolution: 0.1mm 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 plastic measuring element: 18x10⁻⁶/°C
 Lighting source: LED
 Supply: 10 - 24 VDC
 5VDC for line driver output
 Current consumption: Max. 50mA
 Max. 90 mA for line driver output
 Output signal: 2 square waves 90 ± 15 electr. degree out of phase
 Reference (zero) signal: 0.05mm wide.
 Electronic output: push-pull (max.50 mA),
 Open collector NPN (max. 50mA)
 Line driver (26LS31)

PE - MECHANICAL SPECIFICATIONS

Protection degree: IP65
 Max. speed: 120m/min
 Max. acceleration: 40m/sec²
 Zero pulse max. speed 24m/min
 Progress strength: 1 - 3 N
 Stem: Stainless steel 8 mm
 Case: In Anodised aluminium
 Fixing: Metal clamping feet placed along the body / or possibly to apply ball joints at both ends.
 Operating Temperature: 0 -50°C



PE - CONNECTOR SIGNAL

OC without zero pulse

1 signal A
 2 signal B
 3 0 V
 4 + V supply



OC with zero pulse / push pull output

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



PE - 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
PE 050 060 PP	60	137
PE 050 120 PP	120	197
PE 050 200 PP	200	277
PE 050 280 PP	280	357
PE 050 360 PP	360	497
PE 050 440 PP	440	577
PE 050 520 PP	520	657
PE 050 580 PP	580	717
PE 050 750 PP	750	887
PE 050 990 PP	990	1127

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

Y dimension depending on signal type

Open collector No zero pulse Y = 55mm
 On All other combinations is Y = 65mm

Nordisk Transducer Teknik

Als Odde, DK-9560 Hadsund Denmark

Tel.: +45 98581444, Fax.: +45 98581866

E-mail: ntt@ntt.dk WEB: www.ntt.dk