COMPLYING WITH STANDARDS

SPECIFICATIONS PE050

ELECTRICAL SPECIFICATIONS

- Operating principle: Optoelectronic reading on glass graduated scale 2 mm thick
- Grating pitch: 20 + 20 micron
- Grating accuracy: ±3 micron/m
- Reading resolution: 0.01 mm
- Reference pulses: Standard: 1 at mid-stroke or 1 each 25 mm. On request: placed according to the customer's requirements
- Measuring element material: Floatglass
- Thermal expansion of the measuring element: 8 x 10^-6/°C

MECHANICAL SPECIFICATIONS

- Dimensions: 8 x 10^-6/°C
- Stems: Stainless steel diameter 8 mm
- Protection degree: High protection degree (IP65)
- Max acceleration: ±30 m/s²
- Max speed: 60 m/min. - 120 m/min.
- Tracking: ±0.01 mm
- Reference search: ±0.05 mm
- Max speed: 30 V, line driver (5 or 10/24 Vdc)

SPECIFICATIONS PE050

- Operating principle: Optoelectronic reading on polymer film graduated scale 0.18 mm thick
- Grating pitch: 10 + 10 micron
- Grating accuracy: ±0.005 mm
- Reading resolution: 0.005 mm
- Reference pulses: 0.005 mm
- Measuring element material: Film polyester
- Thermal expansion of the measuring element: 18 x 10^-6/°C

GENERAL SPECIFICATIONS

- PD100: reading resolution 0.01 mm
- PD500: reading resolution 0.005 mm
- PE050: reading resolution 0.05 mm

TYPICAL APPLICATIONS:

- Measuring thickness (of glass panes, wood plates, paper sheets)
- Control of strokes
- Wood-working machinery, glass/marble-working, sheet, plastics, paper machinery
- Hydraulic and pneumatic motion systems
- Control of lengths
- Wood-working machinery, glass/marble-working, sheet, plastics, paper machinery

DIMENSIONS PD/PE SERIES

- There are three versions available, each one with or without zero pulse:
  - PD100: version with amplifier
  - PD500: version with cable connection
  - PE050: version with connection for compressed air

- Control of strokes: 60 to 990 mm
- Calibration: ±10% for all full line circuits
- Max reading: ±0.05 mm

VARIATIONS ADMITTED WITHOUT NOTICE     REV. 02/03

ELAP PD/PE INCREMENTAL LINEAR TRANSDUCERS

- High reading resolution (up to 0.005 mm)
- Easy mounting method
- High protection degree (IP65)

Accurate, strong, easy to mount, and weatherproof, transducers series PD and PE are the ideal solution when you need to measure thickness or control linear displacement on any kind of industrial machine. There are three versions available, each one with or without zero pulse:

- PD100: reading resolution 0.01 mm
- PD500: reading resolution 0.005 mm
- PE050: reading resolution 0.05 mm

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