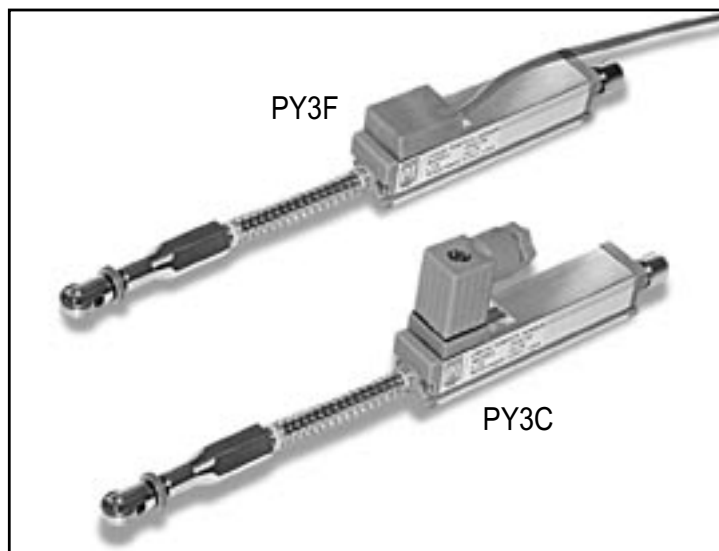


# PY3

## LINEAR MOTION POSITION SENSORS

### STANDARD 10-50mm

## Roller Head Pre-loaded Spring Type



This mini position transducer is designed for direct absolute measurement and available in stroke length up to 50mm. The mini design is suitable for mounting in instruments or machines with limited space and specially design for moving stock application.

An improved technique for making connection to resistance track (Double Trimming Technique) ensures the higher degrees of reliability and linearity, while multi-fingers wipers stabilize output signals, even in the most adverse working conditions.

The fixing feet are adjustable to the desired position.

The bearing roller is suitable for measurement of moving pile stock thickness along moving direction.

### Unique Features

- Harden steel bearing roller head for measurement of moving pile stock thickness
- Mini design for limited space
- Anodised Aluminium Housing
- Double slide and bearing
- Very Long Life
  - >100 x 10<sup>6</sup> Cycles
  - >25 x 10<sup>6</sup> m
- Stroke : 10-450mm
- Outstanding Linearity up to :  $\pm 0.1\%$
- High Resolution : Infinite
- Excellent Repeatability :  $\pm 0.01\text{mm}$
- Max operating speed : 5m/s max.
- PY3C - 4 pin C193 connector
- PY3FS - standard 1m cable
- Sealing IP 40 standard (IP 65 optional)
- Fuse Protected Optional

### Technical Specifications

Sealing - PY3C/PY3FS	IP40
Sealing - optional	IP65
Current	Resistance $\leq 10\text{mA}$
	Wiper $\leq 1\text{mA}$
Operating Force	$\leq 1.2\text{N}$ (IP40)
	$\leq 5\text{N}$ (IP65)
Power Consumption	3W-10W
Output Smoothness	$< \pm 0.1\%$ against input voltage
Input Voltage	60 V Max
Insulation Voltage	500V-1 min Residue $< 5 \mu\text{A}$
Vibration	IEC 68-2-6:1982 10g
Shock	IEC 68-2-29:1968 40g

# PY3