



- ▶ **Pulling Rod Type**
- ▶ **Mini design for limited space**
- ▶ **Ø 19 Section, Standard 10-250 mm**
- ▶ **Anodised Aluminium Housing**
- ▶ **Long Life, High Resolution**
- ▶ **Excellent Repeatability**
- ▶ **Three mounting methods**

This mini position transducer is designed for direct absolute measurement and available in stroke length up to 250 mm. The mini design is suitable for mounting in instruments or machines with limited space. An improved technique for making a connection to the 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.

There are three ways of mountings to suit different applications:

- ▶ The PZ34S can be mounted by two adjustable brackets
- ▶ The PZ34S can be mounted by self-aligning ball joints
- ▶ The PZ34S can be flange mounted

Specifications	
<b>Mechanical</b>	
Typical Life Cycle	> 100 x 10 <sup>6</sup> cycles, > 25 x 10 <sup>6</sup> m
Stroke	10 - 50 mm
Linearity up to	± 0.1 %
High Resolution	Infinite
Repeatability	± 0.01 mm
Max. operating speed	5 m/s
<b>Environmental</b>	
Housing	Anodised Aluminium Housing
Operating Temperature	-30... +100° C
Storage Temperature	-50...+120° C
Vibration	IEC 68-2-6:1982 10g
Shock	IEC 68-2-29:1968 40g
Rating	IP60, optional IP65
<b>Electrical</b>	
Current resistance	≤ 10mA
Current wiper	≤ 1 mA
Operating Force	≤ 0,3N (IP60) ≤ 5N (IP65)
Power Consumption	3W - 10W
Output Smoothness	<± 0.1% against input voltage
Input Voltage	60 V max
Insulation Voltage	500V - 1min Residue < 5 µ A

# PZ34 - LINEAR MOTION POSITION SENSORS

## Ordering information

(Please use the characters in the chart below to construct your product code)

**Sample Code:** PZ34 - S - 250 - P - 3M

<b>Series</b>	PZ34	<b>Cable length</b>	3M 3 m screened cable
<b>Mounting type</b>	S Mounting by brackets A Mounting by selfaligning ball-joints F Mounting by flange FS Cable	<b>Rating</b>	P Water Proof IP65 Blank IP60 (Standard)
<b>Length</b>	10 10 mm 25 25 mm 50 50 mm 75 75 mm 100 100 mm 125 125 mm 150 150 mm 200 200 mm 250 250 mm		

## Ordering information cont.

PZ34 series			10	25	50	75	100	125	150	200	250
Total Electrical Travel (T.E)	mm		11	26	51	76	101	126	151	201	251
Active Electrical Travel (A.E)	mm		10	25	50	75	100	125	150	200	250
Resistance ±20%	kΩ		1	1	2	3	4	5	5	8	10
Independent Linearity	±%		0.3	0.2	0.1	0.1	0.1	0.05	0.05	0.05	0.05
Mechanical Travel (M.T)	mm		15	30	55	80	105	130	155	205	255
Resolution			infinite								
Recommended Cursor Current	μA		< 1								
Temperature Range	°C		-30 to +100								
Dimensions (A) PZ34-S	mm		68.5	83.5	108.5	133.5	158.5	183.5	208.5	258.5	308.5
Dimensions (A) PZ34-A	mm		95	110	135	160	185	210	235	285	335
Dimensions (A) PZ34-F	mm		68.5	83.5	108.5	133.5	158.5	183.5	208.5	258.5	308.5
Dimensions (B)	mm		32	47	72	97	122	147	172	222	272
Dimensions (C)	mm		148	163	188	213	238	263	288	338	388
Net Weight PZ34-S	gm		70	90	105	130	160	175	190	215	245
Net Weight PZ34-A	gm		90	110	125	150	180	195	210	235	260
Net Weight PZ34-F	gm		80	100	115	140	170	185	200	225	255

\* Dimensions for reference only

## Dimensions and Electrical connections

