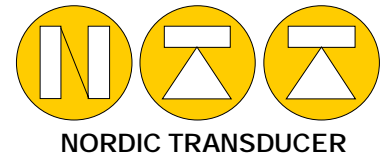


# ELAP PLS / PL2S - LINEAR POTENTIOMETER TRANSDUCERS



## 2 TYPES: PLS & PL2S

### PLS & PL2S

are used to transform the mechanical linear motions into the corresponding electrical signals. They can fulfil every need in the field of measuring and positioning control on automatic machines in the industrial sector. They are supplied with freely movable clamping feet and freely adjustable connector. They are IP65 protected for usage in industrial environment.

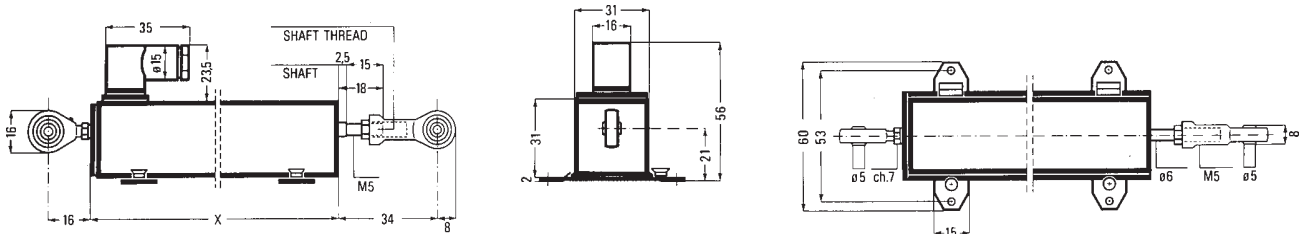


PLS with fixed montings and connector at rear end.

PL2S with ball bearings in both ends and connector on top at rear end.

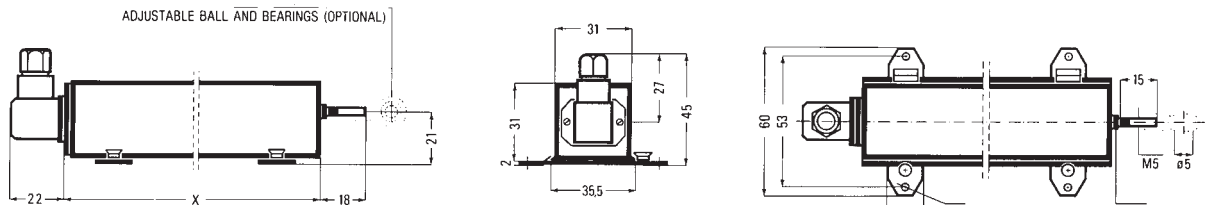
all dimensions in mm

### DIMENSIONS PL2S



PL2S can be supplied in following lengths: 50 - 100 - 150 - 200 - 250 - 300 - 400 - 500 mm  
 X measure: 127 177 227 277 327 377 477 577 mm

### DIMENSIONS PLS



PLS can be supplied in following lengths: 50 - 100 - 150 - 200 - 250 - 300 - 400 - 500 - 750 - 950 mm  
 X measure: 130 180 230 280 333 380 480 580 830 1030mm

PL2S +/- 0.075% to 500mm  
 Standard 5kOhm resistance.  
 Length from 50mm to 500mm.  
 Shaft  $\varnothing$  6mm. Thread M5  
 Ball joints both ends as standard.  
 Case 31x31mm  
 IP65 protection

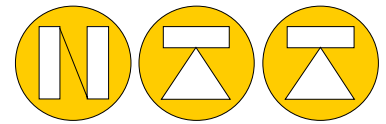
PLS +/- 0.075% to 500mm, 0.1% 750 & 950mm  
 Standard 5kOhm resistance.  
 Length from 50mm to 500mm.  
 Shaft  $\varnothing$  6mm. Thread M5  
 Ball joints as option at shaft end.  
 Case 31x31mm  
 IP65 protection

### FOR ALL TYPES:

<b>Resistance Element:</b>	Conductive Plastic	<b>Slider:</b>	Noble material with multiple elements
<b>Total resistance tolerance:</b>	Standard +/-20%	<b>Resolution:</b>	Infinite
<b>Max. stem linear speed:</b>	1m/sec.	<b>Sliding friction:</b>	0.1kg
<b>Insulation resistance:</b>	<1.000 Mohm 500 Vdc	<b>Connection:</b>	Freely rotating connector
<b>Case:</b> Anodized Aluminium with Nylon + Glass closing flanges.			

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NORDIC TRANSDUCER

## SPECIFICATIONS    LINEAR MOTION POTENTIOMETERS TYPES PLS - PL2S -PL231

STROKE mm	50	100	150	200	250	300	400	500	750	950
RESISTIVE ELEMENTS	CONDUCTIVE PLASTIC									
CURSOR	NOBLE METAL WITH MULTIPLE ELEMENTS									
STANDARD RESISTANCE VALUES	STANDARD 5K									
TOTAL RESISTANCE TOLERANCE	STANDARD 20%									
INDEPENDENT LINEARITY	+/-0,075%					0,1%				
RESOLUTION	INFINITE									
OUTPUT SMOOTHNESS	< 0,1% AGAINST INPUT VOLTAGE									
CONTACT RESISTANCE VARIATION	<2% C.R.V.									
POWER RATING	0,5	1	1,75	2	2,25	2,5	3	4	4	4,75
TEMPERATURE COEFFICIENT	+/- 400P.P.M./°C									
INSULATION RESISTANCE	>1000MOhm at 500Vdc									
ELECTRICAL CONNECTIONS	FREELY ROTATING CONNECTOR									
CASE	ANODISED ALUMINIUM WITH NYLON+GLASS CLOSING FLANGES									
MOTION STEM SLIDING	STAINLESS STEEL ON AUTOLUBRICATING ALEBOX FREE ROTATION									
SLIDING FRICTION	0,1KG <0,5Kg TYPES WITH SPRINGS									
MAX. STRAIN ON CLOSING FLANGES	10kg									
FIXING	FREELY MOVABLE METAL CLAMPING FEET OR BALL BEARINGS									
LIFE EXPECTANCY	20 MILL. MOTIONS NO LOAD									
OPERATING TEMPERATURE	-25..... +85°C									
PROTECTION DEGREE	IP65									
STEM MAX. LINEAR SPEED	1 m/sec									
WEIGHT kg	0,13	0,25	0,4	0,5	0,55	0,75	1,0	1,25	1,9	2,4

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