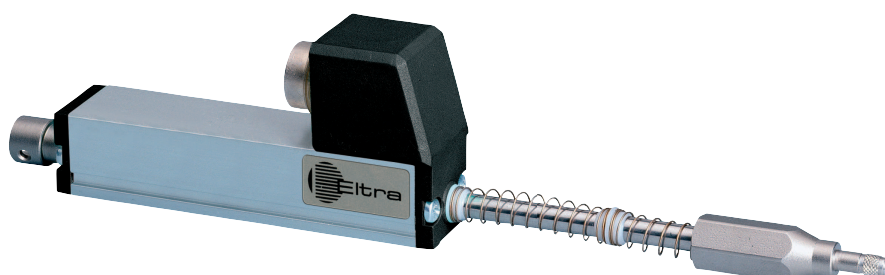


Main Characteristics

EPLT is an absolute linear potentiometer transducer.

This model is characterized by the absence of cursor and the presence of a sensing system, composed by a moving rod, stainless steel sphere mounted on a threaded prod and a spring.

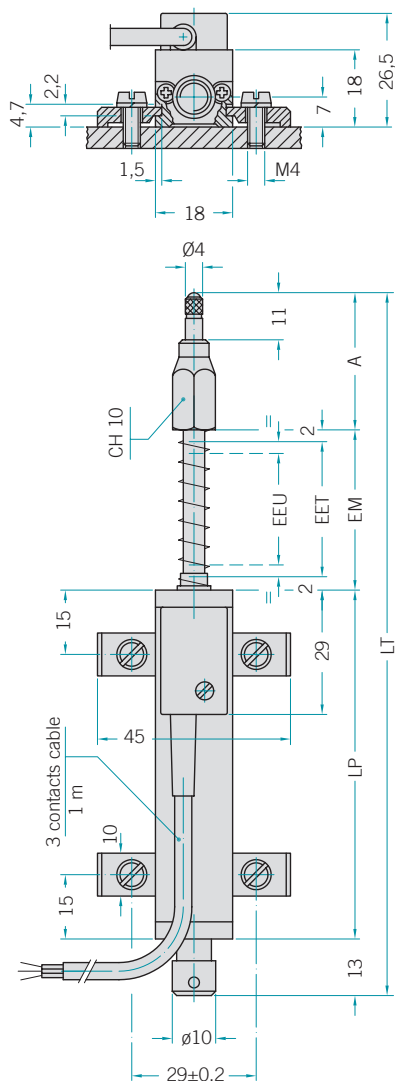
This transducer is suitable for applications where short strokes are requested. Moreover, the connector output is disaligned respect to the axis of the device in order to allow the through rod structure and giving greater robustness. The presence of the spring assures an automatic head positioning making this device suitable for being used in precise applications on cams or on product outputs coming from automatic production lines. EPLT is also characterized by the absence of variations on the electrical output signal outside of the theoretical electrical stroke.



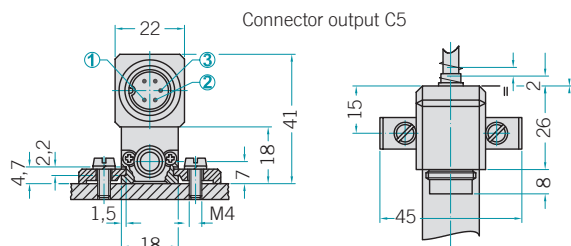
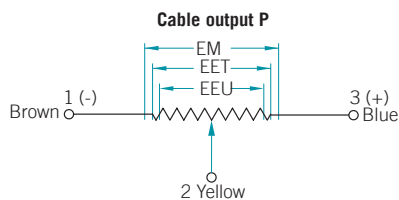
Ordering code

EPLT 100 X 10 P A				
model of linear potentiometer	EPLT			OUTPUT DIRECTION
				A axial
	STROKE (mm)			OUTPUT TYPE
	10 / 25 / 50 / 75 / 100			P standard length 1 m
<i>Please contact our offices for versions and range availability</i>				
	ENCLOSURE RATING			C5 5 contacts round connector (IP 40)
	standard IP 40	X		DISPLACEMENT SPEED
				10 max speed 10 m/s

Mechanical dimensions



Electrical connections



Technical characteristics

Displacement speed	10 m/s max
Displacement force	4 N max
Electrical insulation	>100 MΩ, 500 VDC, 1 bar, 2 s
Dielectric rigidity	<100 μA, 500 VAC, 50 Hz, 1bar, 2 s
Enclosure rating	IP 40
Life	> 100 x 10 ⁶ uses
Working temperature	-30° ... +100°C
Storage temperature	-50° ... +120°C
Thermal coefficient of the output voltage	<1,5 ppm/°C
Vibrations	20 G, 5 ... 2000 Hz
Shock rating	50 G for 11 ms
Resistance tolerance	± 20 %
Recommended cursor current	0,1 μA max
Max cursor current	10 mA max
Housing material	anodized aluminium Nylon 66 G 25
Rod material	stainless steel AISI 303
Mounting	brackets with variable interaxis

Important: these data are corrected if the transducer is used as voltage divider with a maximum applicable current of 0,1μA.

Electrical / mechanical data

Model	mm	10	25	50	75	100
Useful electric stroke (EEU) (+1/-0 mm)	mm	10	25	50	76	101
Theoretical electric stroke (EET) (±1 mm)	mm	11	26	51	76	101
Mechanical stroke (EM)	mm	15	30	55	81	106
Case length (LP)	mm	48	63	88	114	139
Sensing probe length	mm	32	32	40	40	40
Total length (LT)	mm	108	138	196	221	246
Max applicable voltage	V	14	25	60	60	60
Independent linearity	%	± 0,3	± 0,2	± 0,1	± 0,1	± 0,1
Resistance (on EET)	kΩ	1	1	5	5	5
Power dissipation 40 °C	W	0,2	0,6	1,2	1,8	2,4

*For further versions and strokes please contact our offices.