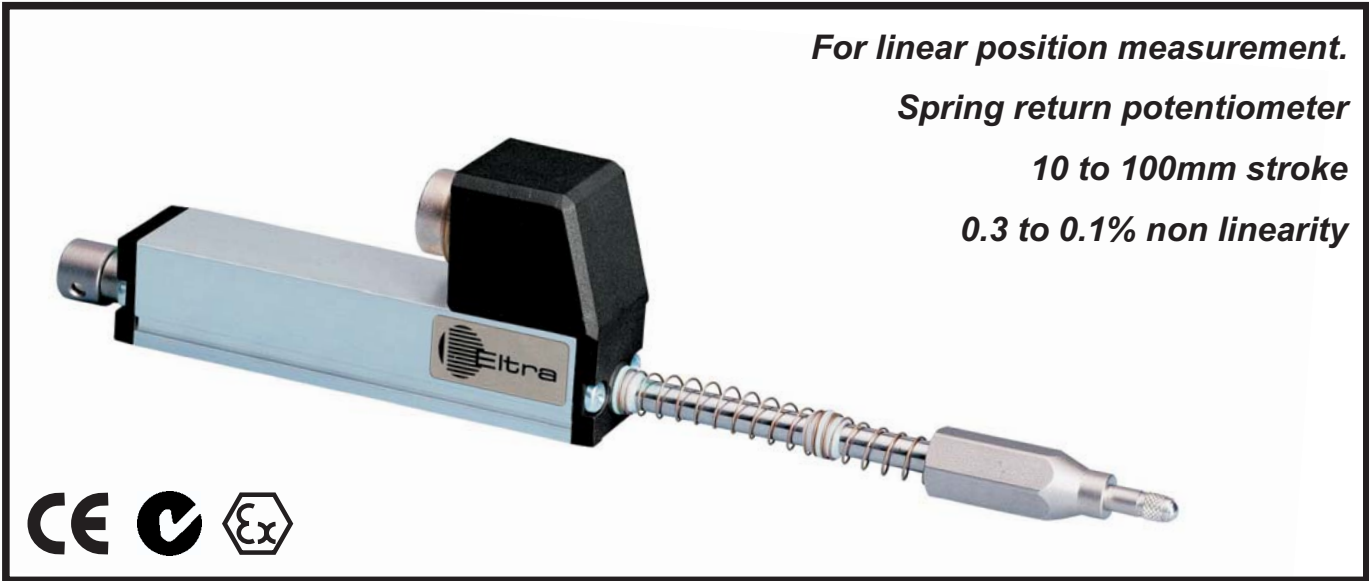




EPLT SPRING LOADED LINEAR POTENTIOMETER



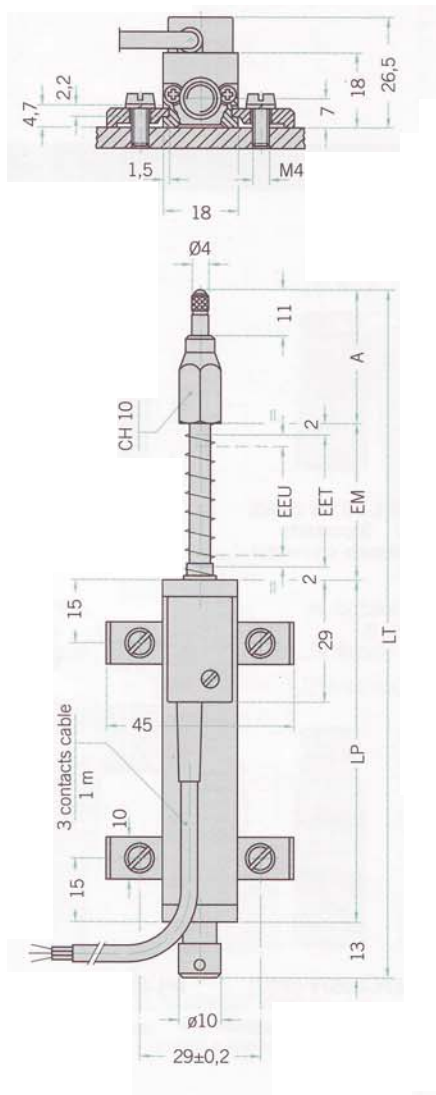
The EPLT is a high precision rectilinear potentiometer for industrial applications. It has a 3 wire analog resistive output which is absolute so the reading is maintained after loss of power. It is designed for position measurement in materials handling, mining, process control and test equipment.

It has a compression spring so it will return to its neutral position after an external force is removed. The shaft is fitted with a stainless steel spherical striker to compensate for slightly off centre loads. This model is well suited to testing equipment where small displacements must be measured.

ORDERING INFORMATION

	EPLT	25	X	10	P	A
POTENTIOMETER MODEL						
<i>EPLT</i>						
ELECTRICAL STROKE						
<i>10,25,50,75,100mm</i>						
PROTECTION						
<i>standard IP40: X</i>						
DISPLACEMENT SPEED						
<i>maximum speed 10m/sec: 10</i>						
OUTPUT TYPE						
<i>flying cable (1 metre): P</i> <i>5 pin round connector (IP40): C5</i>						
OUTPUT POSITION						
<i>radial: A</i>						

DIMENSIONS

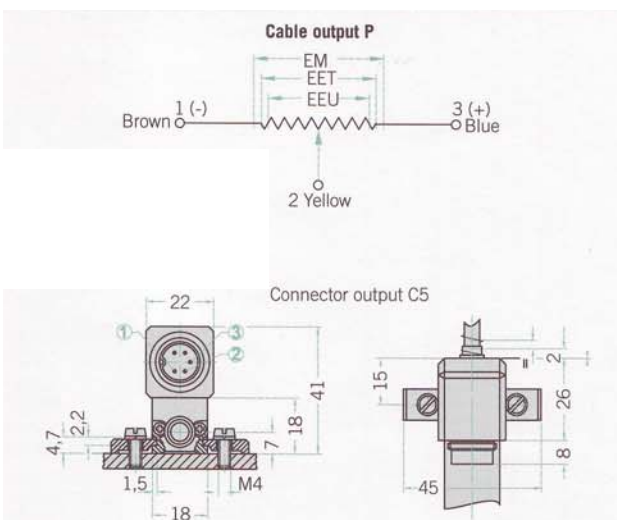


SPECIFICATIONS

Displacement speed	10 m/s max
Displacement force	4 N max
Electrical insulation	>100 MΩ a 500 VDC, 1 bar, 2 s
Dielectric rigidity	<100 μA a 500 VAC, 50 Hz, 1 bar, 2 s
Protection class	IP40
Explosion proof	According to ATEX CEI EN 50020 2003 (par. 5.4 a)
Life	>100x10 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
Enclosure 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 voltage of 0,1μA.

CONNECTIONS



ELECTRICAL/MECHANICAL DATA

Model	mm	10	25	50	75	100
Useful electric stroke (EEU) (+1/-0mm)	mm	10	25	50	76	101
Theoretical electric stroke (EET) ±1mm	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

AUTOMATED MOTION SYSTEMS PTY.LTD.

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