



## MAIN CHARACTERISTICS

EPLC is an absolute linear potentiometer transducer without internal rod.

This transducer is characterized by a cursor with integrated coupling sliding on the axis.

The main characteristic is the absence of variations on the electrical output signal outside of the theoretical electrical stroke.



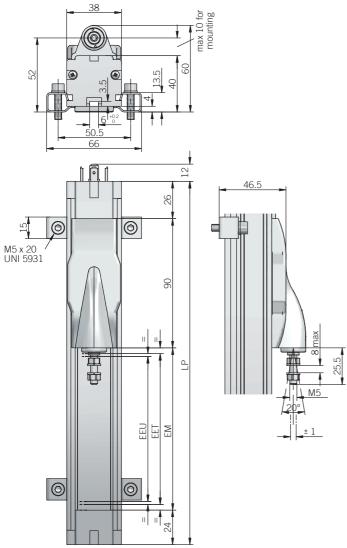




ORDERING CODE	EPLC	500	X	4	C4	A
	rodless linear potentiometer model EPLC  mm from 10  see table for stroke a	STROKE 0 to 1500 vailability ENCLOSUR	E RATING IP 40 X TRAVE nax speed			
		max speed 10 m/s 10    OUTPUT TYPE  DIN 43650-A 4 pin connector C4  M16 DIN 43322 5 pin connector C5  OUTPUT DIRECTIO  axial		RECTION axial A		



## **EPLC**



dimensions in mm

- · fixing kit (brackets, screws, grower) included
- female connector not included, for ordering P/N please refer to Accessories section

CONNECTIONS			
Function	Cable output	4 pin C4 output	5 pin C5 output
+	blue	3	3
-	brown	1	1
output	yellow	2	2
nc	/	/	/
nc	/	/	/
÷	shield	<del>-</del>	/

C4 connector (4 pin) DIN 43650-C solder side view FV



C5 connector (5 pin) DIN 45322 solder side view FV

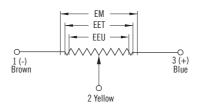


Important: datas are valid if the transducer is used as a ratiometric device with a maximum applicable current  $\leq 0.1~\mu\text{A}$ 

ELECTRICAL SPECIFICATIONS		
Resolution	virtually infinite	
Independent linearity	± 0,05 %	
Repeatability	0,01 mm	
Resistance tolerance	± 20 %	
Recommended cursor current	< 0,1 μΑ	
Resistance temperature coefficient	-200 200 ppm / °C typical	
Output voltage temperature coefficient	≤ 5 ppm / °C typical	
Power dissipation	3 W at 40 °C / 0 W at 120 °C	
Max cursor current	10 mA max	
Applicable voltage	60 V max	
Electrical insulation	$>$ 100 M $\Omega$ , 500 VDC, 1 bar, 2 s	
Dielectric strenght	t < 100 μA, 500 VAC, 50 Hz, 1bar, 2 s	

MECHANICAL SPECIFICATIONS				
Stroke	100 - 150 - 200 - 300 - 400 - 500 - 600 - 700 - 850 - 900 - 1000 - 1250 - 1500 mm			
Useful electric stroke (EEU) (+3/-0 mm)	see model (mm)			
Theoretical electric stroke (EET) (±1 mm)	-   6     mm (6    )			
Mechanical stroke (EM)	FE			
Resistance (on the EET)	·   111 k( ) (/1111   1111111)			
Case length (LP)	Case length (LP)   EET + 150mm (100 1500)			
Travel speed	4 = 4 m/s max 10 = 10 m/s max			
Acceleration	200 m/s <sup>2</sup> max			
Enclosure rating	IP 40 (IEC 60529)			
Shock	50 G, 11 ms (IEC 60068-2-27)			
Vibration	20 G, 5 2000 Hz (IEC 60068-2-6)			
Displacement force	≤ 1,2 N max			
Housing material	anodized aluminium / Nylon 66 G 25			
Mounting brackets with variable center-to-center of with M6 screw ISO4017 - DIN933				
Operating temperature	-30° +100°C (-22° +212°F)			
Storage temperature	-50° +120°C (-58° +248°F)			

## **ELECTRICAL CONNECTIONS**



## Installation warning instructions:

- · connect the transducer according to the reported connections
- DO NOT use it as a variable resistance
  the transducer calibration has to be done setting the stroke in order to have an output signal between 1% and 99% of the voltage level



