

**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.

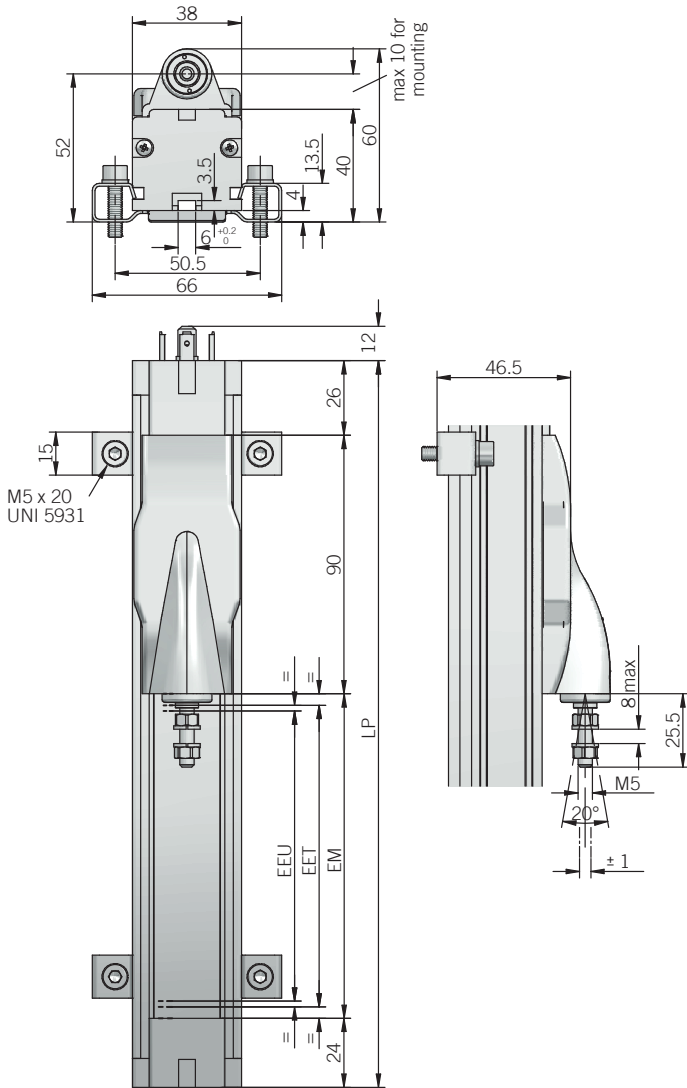


**ORDERING CODE**

**EPLC 500 X 4 C4 A**

<b>SERIES</b> rodless linear potentiometer model <b>EPLC</b>					
<b>STROKE</b> mm from 100 to 1500 see table for stroke availability					
<b>ENCLOSURE RATING</b> IP 40 X					
<b>TRAVEL SPEED</b> max 4 m/s 4 max 10 m/s 10					
<b>OUTPUT TYPE</b> DIN 43650-A 4 pin connector C4 M16 DIN 43322 5 pin connector C5					
<b>OUTPUT DIRECTION</b> axial A					

EPLC



dimensions in mm

CONNECTIONS

Function	4 pin C4	5 pin C5
+	3	3
-	1	1
OUTPUT	2	2
NC	4	4
NC	/	5

C4 connector (4 pin)  
DIN 43650-C  
front view



C5 connector (5 pin)  
DIN 45322  
front view



- fixing kit (brackets, screws, grower) included
- socket connector not included, please refer to Accessories

ELECTRICAL SPECIFICATIONS

<b>Resolution</b>	virtually infinite
<b>Independent linearity</b>	± 0,05 %
<b>Repeatability</b>	0,01 mm
<b>Resistance tolerance</b>	± 20 %
<b>Recommended cursor current</b>	< 0,1 µA
<b>Resistance temperature coefficient</b>	-200 ... 200 ppm / °C typical
<b>Output voltage temperature coefficient</b>	≤ 5 ppm / °C typical
<b>Power dissipation</b>	3 W at 40 °C / 0 W at 120 °C
<b>Max cursor current</b>	10 mA max
<b>Applicable voltage</b>	60 V max
<b>Electrical insulation</b>	> 100 MΩ, 500 V DC, 1 bar, 2 s
<b>Dielectric strenght</b>	< 100 µA, 500 V AC, 50 Hz, 1bar, 2 s
<b>RoHS</b>	according to 2011/65/EU directive

Important: data are valid if the transducer is used as a ratiometric device with a maximum applicable current ≤ 0,1 µA

MECHANICAL SPECIFICATIONS

<b>Stroke</b>	100 - 150 - 200 - 300 - 400 - 500 - 600 - 700 - 850 - 900 - 1000 - 1250 - 1500 mm
<b>Useful electric stroke (EEU) (+3/-0 mm)</b>	see stroke (mm)
<b>Theoretical electric stroke (EET) (±1 mm)</b>	103 mm (100), 153 mm (150), 204 mm (200), 305 mm (300), 406 mm (400), 509 mm (500), 611 mm (600), 713 mm (700), 865 mm (850), 915 mm (900), 1017 mm (1000), 1271 mm (1250), 1521 mm (1500)
<b>Mechanical stroke (EM)</b>	EET + 10mm (100 ... 1500)
<b>Resistance (on the EET)</b>	5 kΩ (100 ... 300) 10 kΩ (400 ... 1000) 20 kΩ (1250 ... 1500)
<b>Case length (LP)</b>	EET + 150mm (100 ... 1500)
<b>Travel speed</b>	4 = 4 m/s max 10 = 10 m/s max
<b>Acceleration</b>	200 m/s <sup>2</sup> max
<b>Enclosure rating</b>	IP 40 (IEC 60529)
<b>Shock</b>	50 G, 11 ms (IEC 60068-2-27)
<b>Vibration</b>	20 G, 5 ... 2000 Hz (IEC 60068-2-6)
<b>Displacement force</b>	≤ 1,2 N (0,27 lbs) max
<b>Housing material</b>	anodized aluminium / Nylon 66 G 25
<b>Mounting</b>	brackets with variable center-to-center distance with M6 screw ISO4017 - DIN933
<b>Operating temperature<sup>1,2</sup></b>	-30° ... +100°C (-22° ... +212°F)
<b>Storage temperature<sup>2</sup></b>	-50° ... +120°C (-58° ... +248°F)

<sup>1</sup> measured on transducer

<sup>2</sup> condensation not allowed

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

