



MAIN FEATURES

EPLA is an absolute linear potentiometer assuring great reliability even in tough applications with heavy vibrations and shocks.

The groove on the enclosure of the transducer represents an excellent alternative to the usual system of fastening with brackets.

Installation is also made simpler by the absence of variations on the electrical output signal outside of the theoretical electrical stroke.

EPLA is the right solution in machinery for material processing such as injection presses for plastic, rubber and so on.







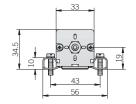


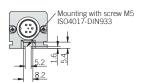
ORDERING CODE	EPLA	200	X	10	C5	A
	SERIES linear potentiometer model EPLA					
	mm from 5	STROKE 50 to 900				
	see table for stroke a	availability				
	t .	NCLOSUR	IP 60 X			
			IP 65 S			
				L SPEED 0 m/s 10		
				OUTP	UT TYPE	
				andard leng		
		DI		3 pin conn		
		DII I	N 43650-A DIN 43322	4 pin conn 5 pin conn	ector C4 ector C5	
				0	UTPUT DIR	
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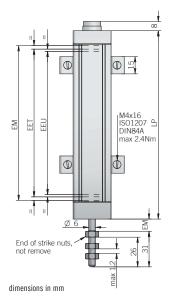




EPLA







CONNECTIONS					
Function	Cable	3 pin C3	4 pin C4	5 pin C5	
+	blue	3	3	3	
-	brown	1	1	1	
output	yellow	2	2	2	
nc	/	/	/	/	
nc	/	/	/	/	
÷	shield	/	÷	/	

C3 connector (3 pin) solder side view FV

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

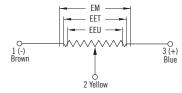
C5 connector (5 pin) DIN 45322 solder side view FV







- · fixing kit (brackets, screws) included
- $\cdot\,$ female connector not included, please refer to Accessories section



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

Important: data are valid if the transducer is used as a ratiometric device with a maximum applicable current $\leq 0.1 \, \mu A$

MECHANICAL SPECIFICATIONS		
Stroke	50 - 100 - 150 - 200 - 300 - 350 - 400 - 450 - 500 - 600 - 750 - 900 mm	
Useful electric stroke (EEU) (+ 3 / - 0 mm)	see model (mm)	
Theoretical electric stroke (EET) (±1 mm)	EEU + 3 mm (50 150), EEU + 4 mm (200 300), 355 mm (350), 406 mm (400), 457 mm (450), 508 mm (500), 609 mm (600), 762 mm (750), 914 mm (900)	
Mechanical stroke (EM)		
Resistance (on the EET)		
Case length (LP)	EEU + 63 mm (50 150), EEU + 64 mm (200 300), 415 mm (350), 466 mm (400), 517 mm (450), 572 mm (500), 673 mm (600), 826 mm (750), 978 mm (900)	
Travel speed	10 m/s max	
Acceleration	200 m/s ² max	
Enclosure rating	X = IP 60 (IEC 60529) S = IP 65 (IEC 60529)	
Shock	50 G, 11 ms (IEC 60068-2-27)	
Vibration	20 G, 5 2000 Hz (IEC 60068-2-6)	
Displacement force	e 3,5 N typical (IP 60) / 15 N typical (IP 65)	
Housing material	anodized aluminium / Nylon 66 G	
Pull shaft material	1 1.4305 / AISI 303 stainless steel	
Mounting	brackets with variable center-to-center distance or M5 ISO4017 - DIN933 screw	
Life	$> 25 \times 10^6$ m strokes or $> 100 \times 10^6$ manoeuvres	
Operating temperature	-30° +100°C (-22° +212°F)	
Storage temperature	Storage temperature -50° +120°C (-58° +248°F)	

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



