Displacement encoder
MLO-POT-500-TLF

Part number: 152629

General operating condition

Data sheet

Feature	Value
CE marking (see declaration of conformity)	As per EU EMC directive
Measuring principle of linear potentiometer	Analog
Ambient temperature	-30 °C ... 100 °C
Recommended contact current	<1 µA
Max. short-time slider current	10000 µA
Max. travel speed	10 m/s
Max. travel acceleration	200 m/s²
Displacement resolution	0.01 mm
Independent linearity	0.05 %
Temperature coefficient	5 ppm/K
Stroke	500 mm
Output signal	Analog
Connection resistance	5 kOhm
Connection resistance tolerance	20 %
Nominal operating voltage DC	10 V
Max. operating voltage DC	42 V
Permissible voltage fluctuations	< 1 %
Max. current consumption	4 mA
Electrical connection	4-pin Form A Plug as per DIN 43650 Rectangular design
Structural design	with cover strip with sliding carriage Open profile
Coupling parallel quick coupling	± 1.5 mm
Moment compensator angular offset	± 1 °
Mounting position	Any
Product weight	1300 g
Housing material	Wrought aluminum alloy Anodized
Covering material	Steel
Slide carriage housing material	Die-cast aluminum Polymer
Slide carriage coupling material	Steel
Cover material	Polymer
Material of assembly brackets	PEI

Feature	Value
Degree of protection at top	as per IEC 60529
Bottom degree of protection	as per IEC 60529
Vibration resistance to DIN/IEC 68 Part 2-6	Tested as per severity level 2
Continuous shock resistance to DIN/IEC 68 Part 2-82	Tested as per severity level 2
LABS (PWIS) conformity	VDMA24364-B2-L