Displacement encoder
MLO-POT-450-LWG

Part number: 152648



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	10 mA
Max. travel speed	5 m/s
Max. travel acceleration	200 m/s²
Displacement resolution	0.01 mm
Independent linearity	0.05%
Temperature coefficient	5 ppm/K
Stroke	450 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	16 mm 4-pin Plug Rectangular design
Structural design	Round profile With connecting rod
Moment compensator angular offset	±12.5°
Mounting position	Any
Product weight	900 g
Housing material	Wrought aluminum alloy Anodized
Cover material	PBT-reinforced
Material of connecting rod	high-alloy stainless steel
Material of bearing seal	NBR
Material of rod seal	PTFE

Feature	Value
Degree of protection	IP65 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