

LA11 absolute magnetic encoder system

LAII is an absolute magnetic linear encoder system designed for motion control applications as a position and velocity control loop feedback element. The encoder system is highly reliable due to contactless absolute measuring principle, built-in safety algorithms and high quality materials/components used.

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Why choose LA11?

FEATURES:

- ✓ True absolute
- ✓ System accuracy to ±40 µm/m
- ✓ Resolution to 0.244 µm
- Speeds up to 7 m/s at 1 µm resolution
- Lengths up to 16.3 m

BENEFITS:

- Simple and fast installation
- ✓ Built-in self-monitoring
- ✓ Integrated status LED
- ✓ SSI, SPI or BiSS
- Excellent degree of protection to IP68



SMT PICK ANE PLACE



PRINTIN TECHNOL



ACHINE TOOLS

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ASSEMBLY LINES

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LA11 technical specifications

SYSTEM DATA		
Maximum length for AS scale	16.3 m	
Incremental pole length	2 mm	
System accuracy	±40 µm/m	
Short range accuracy	< ±10 µm/10 mm	
Coefficient of thermal expansion	17 ±1 μm/m/K	
Repeatability	Unit of resolution	
Hysteresis	< 2 µm at 0.1 mm ride height	
ELECTRICAL DATA		
Supply voltage	Option A: From 4.75 V to 5.75 V - Voltage on readhead, consider voltage drop over cable Option B: From 8 V to 30 V	
Reverse polarity protection	For option A only	
Set-up time after switch-on	< 350 ms	
Current consumption (without load)	< 150 mA at 5 V power supply	
Voltage drop over cable	~ 80 mV/m - without load	
MECHANICAL DATA		
Cable	PUR high flexible cable, drag-chain compatible, double-shielded	
ENVIRONMENTAL DATA		
Temperature	Operating	0 °C to +55 °C
	Storage	–20 °C to +70 °C

LA11 dimensions



All dimensions in mm.

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