

LinACE™ Flat-Board

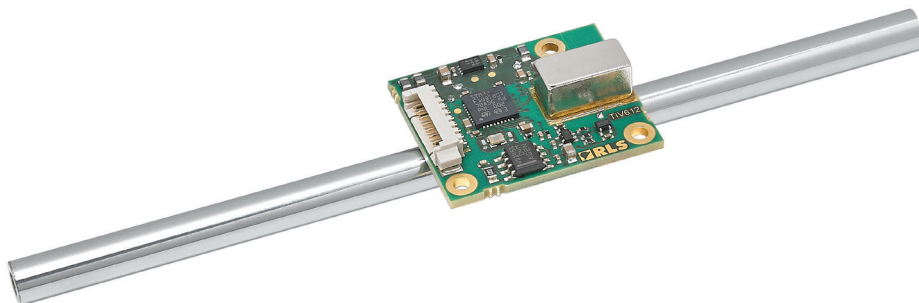
InAxis Linear Absolute Magnetic Shaft Encoder

LinACE™ Flat-Board is a board-level absolute linear magnetic encoder system designed for motion control applications as a position and velocity control loop element. The readhead length only 30 mm and low weight of the encoder system make it suitable for applications with limited space.

TRUE
ABSOLUTE
SYSTEM

HIGH
ACCURACY

DIGITAL
OUTPUTS



Why choose LinACE™ Flat-Board?

FEATURES:

- ✓ Non-contact technology for high reliability
- ✓ Absolute position upon power-on
- ✓ Resolutions up to 0.5 μm
- ✓ Measuring lengths up to 300 mm

BENEFITS:

- ✓ Built-in self monitoring
- ✓ Excellent resistance to stray magnetic fields
- ✓ Stable across temperature
- ✓ Suitable for highly dynamic control loops
- ✓ Small footprint 30 × 25 × 8.5 mm



PROCESS AND
CONTROL



INDUSTRIAL
AUTOMATION



MACHINE TOOLS



MEDICAL



SERVO
MECHANISMS

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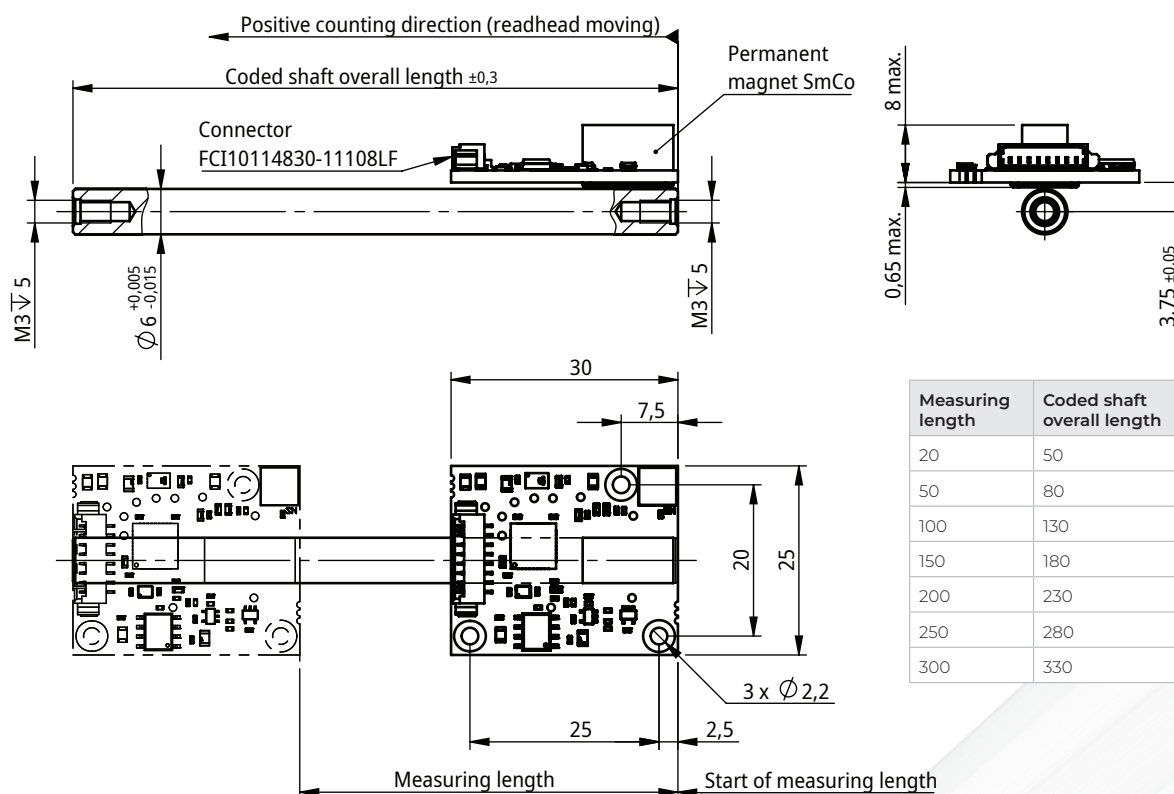
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LinACE™ Flat-Board technical specifications

SYSTEM DATA	
Maximum measuring length	300 mm
Shaft diameter	6 mm
System accuracy	±5 µm – only available for measuring lengths up to 100 mm ±10 µm, ±25 µm, ±50 µm, ±100 µm – for measuring lengths up to 300 mm
Maximum speed	5 m/s
Repeatability	Less than unit of resolution
Hysteresis	Less than unit of resolution (without mechanical assembly influence)
ELECTRICAL DATA	
Supply voltage	4.5 V to 5.5 V – voltage on readhead.
Output load	Asynchronous serial, SSI and BiSS ±40 mA
Set-up time	5 ms (after switch-on)
Current consumption	Typ. 115 mA, max. 150 mA (without output load)
Voltage drop over cable	~ 55 mV/m (without output load)
MECHANICAL DATA	
Material	Shaft Carbon steel, Hard chrome coating 800 HV to 1100 HV
	Readhead Assembled PCB
ENVIRONMENTAL DATA	
Operating and storage temperature	-40 °C to +105 °C

LinACE™ Flat-Board dimensions

All dimensions in mm.



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