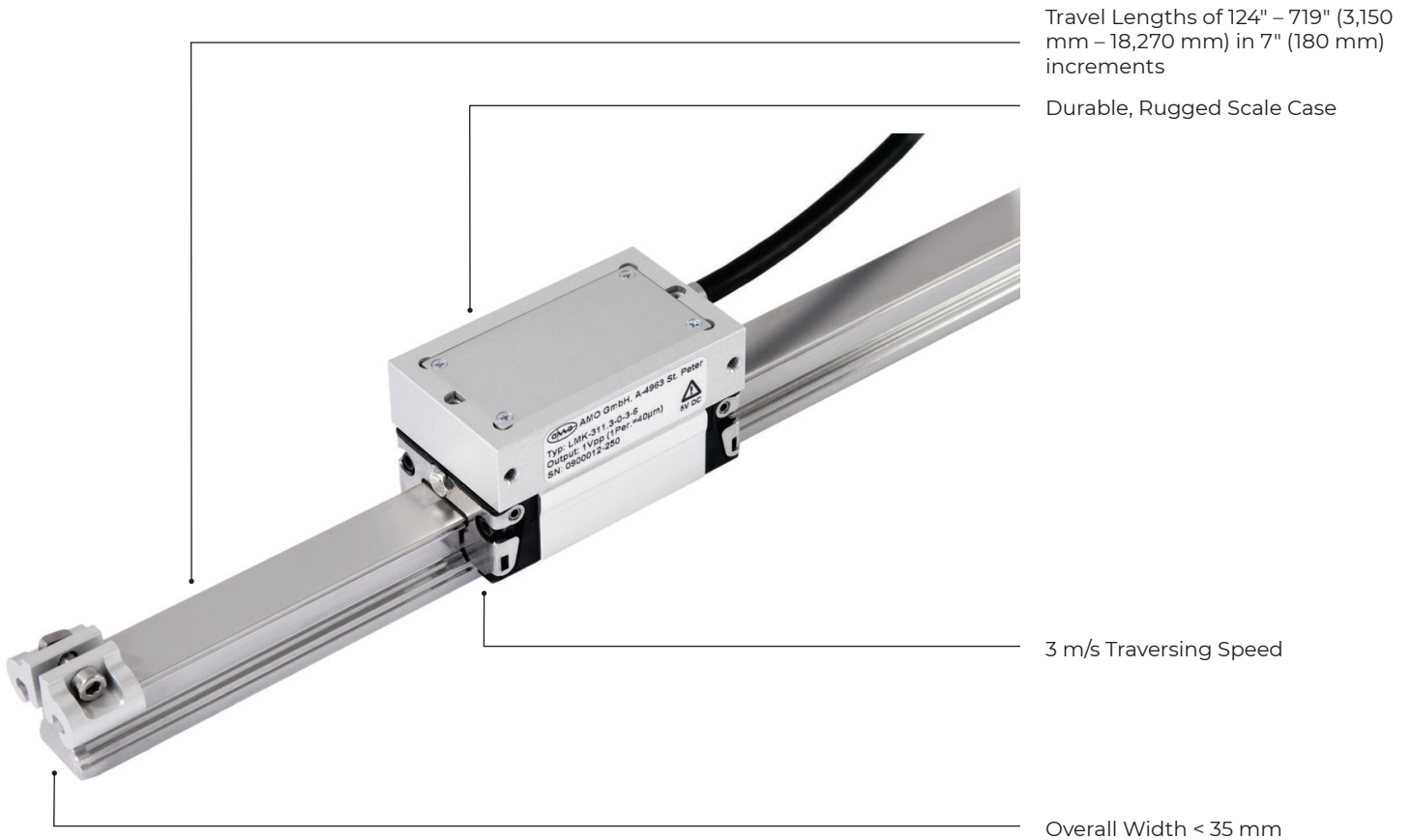


LMF 9310

Multi-Section Inductive Encoder



Engineered for Precision on Large Machines

The LMF 9310 Multi-Section Inductive Encoder is a guided measuring system that uses an LMK scanning head with TTL incremental signals and an inductive measuring tape clamped on an integrated guiderail.

Maximize Precision and Productivity

High-resolution position feedback helps improve machining accuracy, increase throughput, and maintain consistent performance. The LMF 9310 provides the precision needed for large machine tool applications.

Precision Built for Large Machine Tools

Built for precision and long-term reliability, the LMF 9310 combines a durable scale with a compact scanning head that minimizes wear while delivering dependable performance. Its robust design makes it ideal for high-performance machine tools.

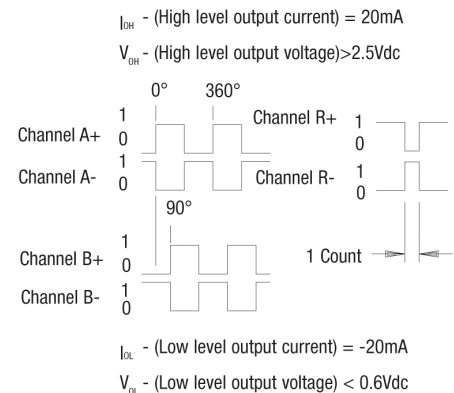
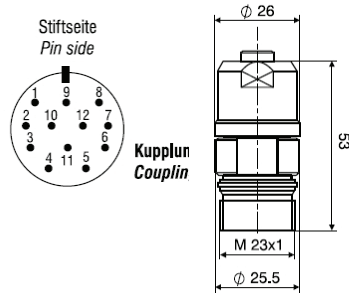
LMF 9310 Technical Data

Measuring Standard	Steel rail with inductive incremental scanning
Accuracy Grade	±20µm
Measuring Length ML*	3,150mm to 18,270mm in 180mm increments
Incremental Signals	□□ TTL
Grating Period Integrated Interpolation Signal Period	1000µm 50-fold 5µm
Measuring Step	5µm
Reference Marks	Distance-coded
Voltage Supply Without Load	5V DC ±0.1 V/< 260mA
Electronic Connection	PUR, with a M23, 12-pin male coupling
Cable Length	0.3m fixed with a 2m - 12m extensions available
Traversing Speed	3 m/s
Required Moving Force	≤ 5N
Operating Conditions	0°C to 80°C
Conditions For Storage	-20°C to 100°C
Protection EN 60529	IP67 when mounted as per Mounting Instructions
Mass	Rail 1.4 kg/m and head 0.2 kg

* Please indicate when ordering

12-Pin Male Coupling for TTL

Pin	Signal	Wire
1	B-	White
2	5V-Sensor	Red-White
3	RI+	Pink
4	RI-	Grey
5	A+	Green
6	A-	Yellow
7	LL	Violet
8	B+	Brown
9	LR	Black
10	0V	Blue
11	0V-Sensor	Blue-White
12	+5V	Red



ACU-RITE SOLUTIONS creates precision CNC control and digital readout systems that accelerate efficiency and capability for manual machine tool operators. Our advanced technologies are backed by the continuous innovation of HEIDENHAIN and are designed, built, and supported in the USA. acu-ritesolutions.com



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