

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. When properly intsalled to specifications, this encoder has an Ingress Protection Rating of 67 (IP67), leaving this measurement system virtually unaffected by environmental contaminats (i.e.

oil, coolant, etc.). With the incorporation of the included mounting coupling on the scanning head, high mounting tolerances can be realized — especially for longer measuring lengths. Durable, dependable and affordable all-inone package.

Product Features

Available in lengths from 3,150mm (124") to 18,270mm (719") in 180mm (7") increments

Accuracy Grade ±20µm

Distance Coded Reference Marks

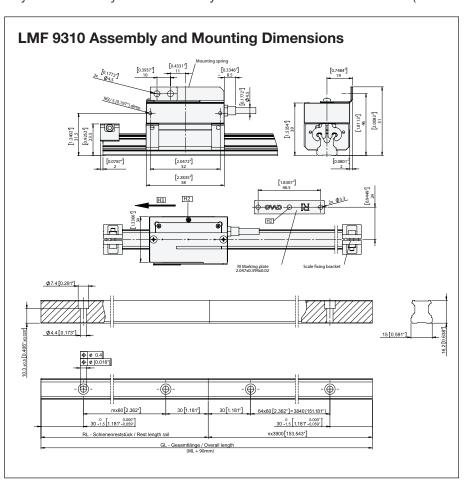
5v Incremental TTL Signals

Durable and Rugged Scale Case

Traversing Speed = 3m/s

Overall width under 35mm (1.4") wide

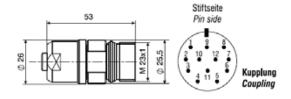
IP67 Protection Rating



LMF 9310 Technical Data

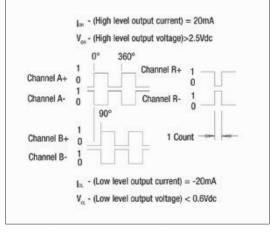
	LMF 9310	
Measuring standard	Steel rail with inductive incremental scanning	
Accuracy grade	±20µm	
Measuring length ML*	3,150mm to 18,270mm in 180mm increments	
Incremental signals	ſIJ πL	
Grating period Integrated interpolation Signal period	1000μm 50-fold 5μm	
Measuring step	5µm	
Reference marks	Distance-coded	
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	OV	Blue
11	0V-Sensor	Blue-White
12	+5V	Red





HEIDENHAIN CORPORATION

333 East State Parkway Schaumburg, IL 60173-5337 USA

(847) 490-1191 (847) 490-3931