



- Contactless and Wear-Free System
- High Tolerance to Shock and Vibration
- Measuring Lengths of Up to 20 Meters
- Resistant to Dirt, Humidity and Dust
- Requires No Cleaning or Maintenance
- Robust Shielded Metal Enclosure
- Protection Class IP67
- Compact Design

The encoder forms a compact unit. The scanning unit is guided within the housing along scale.

Long life linear motion guide system. The scale, scanning unit and guide are protected against contamination by an aluminum extrusion and elastic sealing lips.

The coupling elements between the scanning carriage and transfer web are designed to transfer motion in the measuring direction only.

Pitch or other motion of the connecting web in a direction perpendicular to measurement is compensated without affecting accuracy.

### Technical Specifications

<b>Resolution</b>	5µm, 10µm, 25µm, 62.5µm (or on request)
<b>Output Type</b>	Push-Pull or TTL RS422 Line Driver
<b>Output Signals</b>	A, /A, B, /B, Z, /Z
<b>Input Current</b>	Maximum 40 mA per Channel
<b>Power Supply</b>	PPL: 10..30 VDC or TTL: 5 VDC
<b>Housing Material</b>	Sensor: Nickel Plated Aluminum Scale Profile: Anodized Aluminum
<b>Electrical Connection</b>	Max. 50 m Cable
<b>Magnetic Tape Pole Length</b>	5 mm, 2 mm, 1mm
<b>Travel Velocity</b>	3 m/s
<b>Repeatability</b>	± 1 Pulse
<b>Operating Temperature</b>	-25 to +85°
<b>Protection Class</b>	IP67

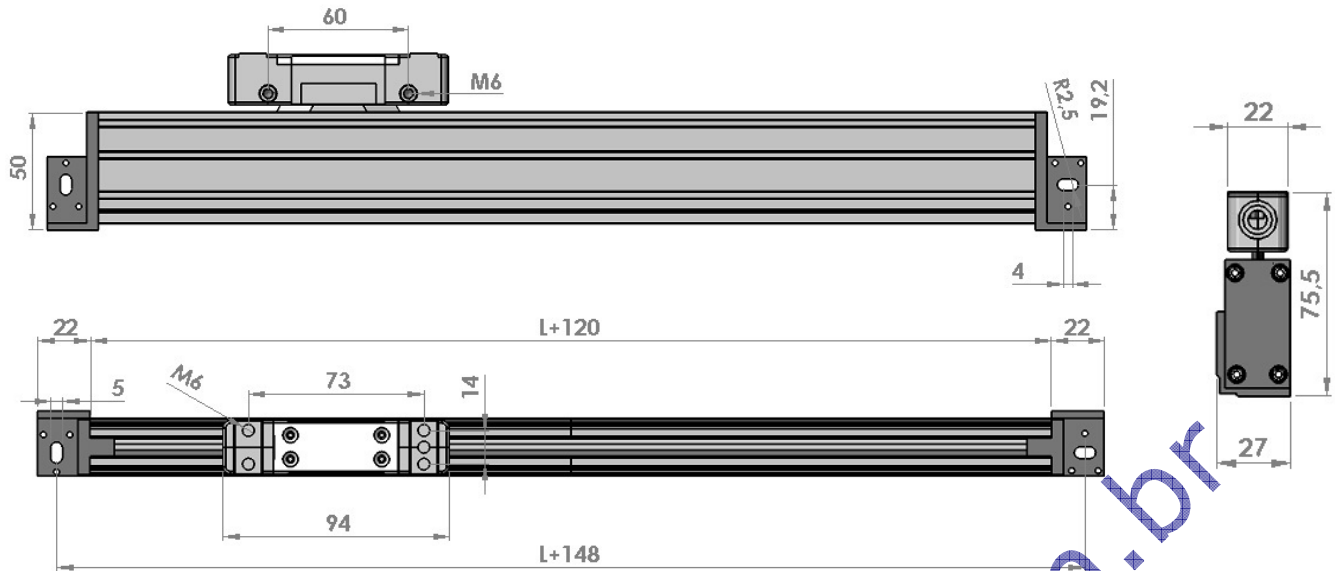
### MLC 310 Series Linear Encoders Are Mainly Used In:

- Lathes, Milling, Drilling, Grinding Machines
- Sheet Metal Working Machines
- Welding Machines
- Bending Machines
- Robotics/Materials Handling
- Marble Machines
- Wood Cutting Machines
- PVC Profile Cutting Machines
- Glass Working Machinery  
Etc...

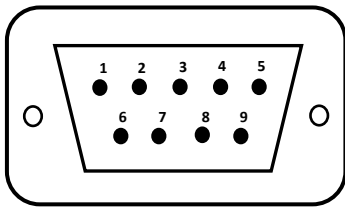
### Measurement Stroke (mm)

100	120	150	170	200	220	250	270	300	320
350	370	400	420	450	470	500	520	550	570
600	650	700	750	800	850	900	950	1000	1100
1200	1300	1400	1500	1600	1700	1800	2000	3000	4000

## Mechanical Dimensions



## Pin Connections



Pin Number	Cable Colour	Signal
1	Yellow	A
2	White	/B
3	Red	POWER SUPPLY
4	Black	0 V
5	Blue	/A
6	Green	B
7	Grey	/Z
8	Pink	Z
9	Shield	GROUND

## Order Code

### Magnetic Tape

B5  
B2  
B1

### Power Supply and Output

TTL : 5VDC ± 5% Power Supply  
5 VDC TTL RS422 Line Driver Output  
PPL : 24 VDC ± 20% Power Supply  
24 VDC Push-Pull Output  
HTL : 24 VDC ± 20% Power Supply  
5 VDC TTL RS422 Line Driver Output

### Cable Length

3M : 3 Meters  
5M : 5 Meters  
8M : 8 Meters  
10M : 10 Meters  
\* Optional Between 5m to 50m

### Measuring Stroke

Optional, User Defined  
(Several Standard  
Lengths from 50mm to  
20.000 mm)

MLC310 - X X - X X - X X X - X - X X - X - X X X mm

### Model

### Resolution

01 : 1µm | 05 : 5µm  
10 : 10µm | 25 : 25µm  
62 : 62,5µm | 80 : 80µm  
100 : 100µm

### Signal Output Type

2 : A, B  
3 : A, B, Z  
4 : A, /A, B, /B  
6 : A, /A, B, /B, Z, /Z

### Sensor Type

C : Cable  
S : Spiral



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