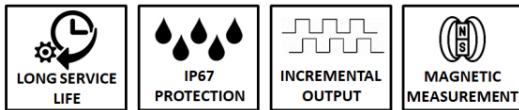




- High accuracy and repeatability
- Magnetic measurement
- Contactless / non-friction system
- High tolerance to vibration and shocks
- Measuring up to 20 meters
- Resistant to dust, oil and moisture
- No maintenance required
- Slim, robust aluminum body
- IP67 protection class
- Easy installation

MLC 330 magnetic linear encoder systems measure non-contactly and gives the output signal as an incremental encoder pulse.

They are not affected by external factors due to its compact design. The MLC 330 sensor is housed along the aluminum profile. The fact that it has a sealed protection system provides extra protection from dust, dirt and chips. It is the ideal solution for machining environments. It can be produced up to a measuring length of 20.000 mm.



#### MLC 330 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...

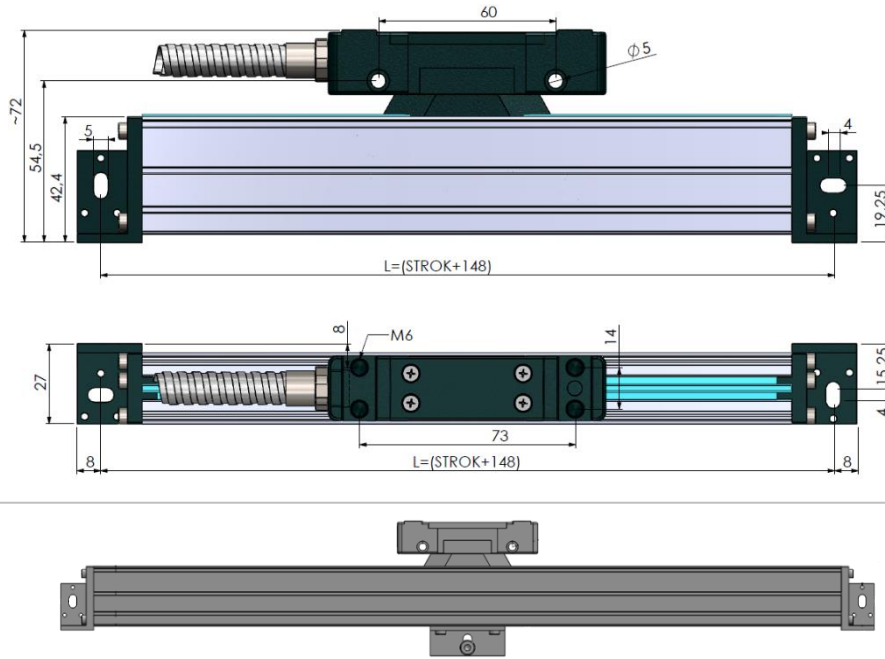
Technical Specifications	
<b>Resolution</b>	5µm, 10µm, 25µm, 50 µm, 62.5µm, 100µm (optional other resolutions)
<b>Measuring Principle</b>	Magnetic
<b>Output Type</b>	Push-Pull or TTL RS422 Line Driver
<b>Output Signals</b>	A, /A, B, /B, Z, /Z
<b>Input Current</b>	Maximum 40 mA per Channel
<b>Supply Voltage</b>	PPL: 10..30 VDC or TTL: 5 VDC
<b>Body Material</b>	Sensor: Nickel Plated Aluminum Scale Profile: Anodized Aluminum
<b>Electrical Connection</b>	D-Sub 9 Pin, 5 or 8 x 0,14 mm <sup>2</sup> shielded cable
<b>Tape Reading Distance</b>	0,1 mm to 2 mm
<b>Accuracy</b>	± 40 µm/m max.
<b>Operating Speed</b>	3 m/s
<b>Repeatability</b>	± 1 Pulse
<b>Operating Temperature</b>	-25°C ... +85°C
<b>Protection Class</b>	IP67

#### Standard Stroke Lengths (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

\*Please contact for other strokes

## Mechanical Dimensions

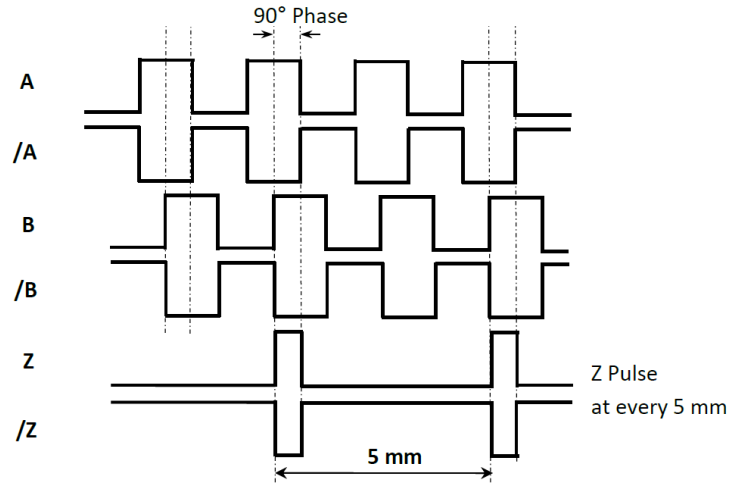


↓ “L” connection component

In the installation of long-scales, it may not be sufficient to fix the ruler only on both sides. In such cases, it is necessary to fix the center points with the “L” connection component on the underside of the ruler profile. “L” connection part can be pulled from left to right and can be connected at any place. This prevents the long rulers from making a measurement error by stretching.

## Electrical Connections

SIGNAL	CABLE COLOR	D-SUB 9 PIN / SOCKET PIN NO
A	Yellow	1
/B	White	2
+V	Red	3
0V	Black	4
/A	Blue	5
B	Green	6
/Z	Grey	7
Z	Pink	8
-	Shield	9



## Order Details

### Magnetic Tape

B5

### Power Supply and Output

**TTL** : 5VDC Supply Voltage,  
5 VDC TTL RS422 Line Driver Signal Output  
**PP** : 10...30 VDC Supply Voltage,  
10...30 VDC Push-Pull Signal Output  
**HTL** : 10...30 VDC Supply Voltage,  
5 VDC TTL RS422 Line Driver Signal Output  
**HPL** : 5...30 VDC Supply Voltage,  
5...30 VDC Push-Pull Signal Output

### Cable Length

**3M** : 3 meters  
**3.5M** : 3,5 meters  
**4M** : 4 meters  
**5M** : 5 meters  
**6M** : 6 meters  
**7M** : 7 meters  
**8M** : 8 meters  
**9M** : 9 meters  
**10M** : 10 meters  
**15M** : 15 meters  
\* Please ask for other options

### Measuring Stroke

See standard stroke lengths table, contact for other stroke lengths.

MLC330 - X X - X X - X X X - X - X X - X X - X - X X X mm

### Model

### Resolution

**05** : 5µm | **10** : 10µm  
**25** : 25µm | **50** : 50µm  
**62** : 62,5µm | **100** : 100µm

### Signal Output Types

**2** : A, B | **3** : A, B, Z  
**4** : A, /A, B, /B | **6** : A, /A, B, /B, Z, /Z  
Standard, Z Signal at every 5 mm

### Cable Type

**C** : PUR Cable  
**S** : Spiral

Atek Elektronik Sensör Teknolojileri Sanayi ve Ticaret A.Ş.

Gebze OSB, 800. Sokak, No:814 Gebze/KOCAELİ/TURKEY

Tel: +90 262 673 76 00

Fax: +90 262 673 76 08

[www.ateksensor.com](http://www.ateksensor.com)

[info@ateksensor.com](mailto:info@ateksensor.com)



DS-MLC.006 Rev No:2