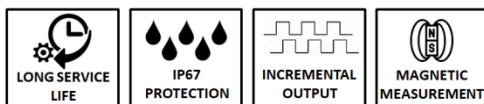




- High accuracy and repeatability
- Magnetic measurement
- Contactless / non-friction system
- Slim profile structure
- High tolerance to vibration and shocks
- Resistant to dust, oil and moisture
- No maintenance required
- Robust aluminum body
- IP67 protection class
- Easy installation

MLC 320 magnetic linear encoder systems measure non-contact and gives an output signal as an incremental encoder pulse.

They are not affected by external factors due to its slim and compact design. MLC 320 sensor is housed along the aluminum profile. Extra protection from dust, dirt and chips is provided by having a seal protection system. It is the ideal solution for machining environments. It can be produced up to a measuring length of 20.000 mm.



MLC 320 Series Linear Encoders Are Mainly Used In:

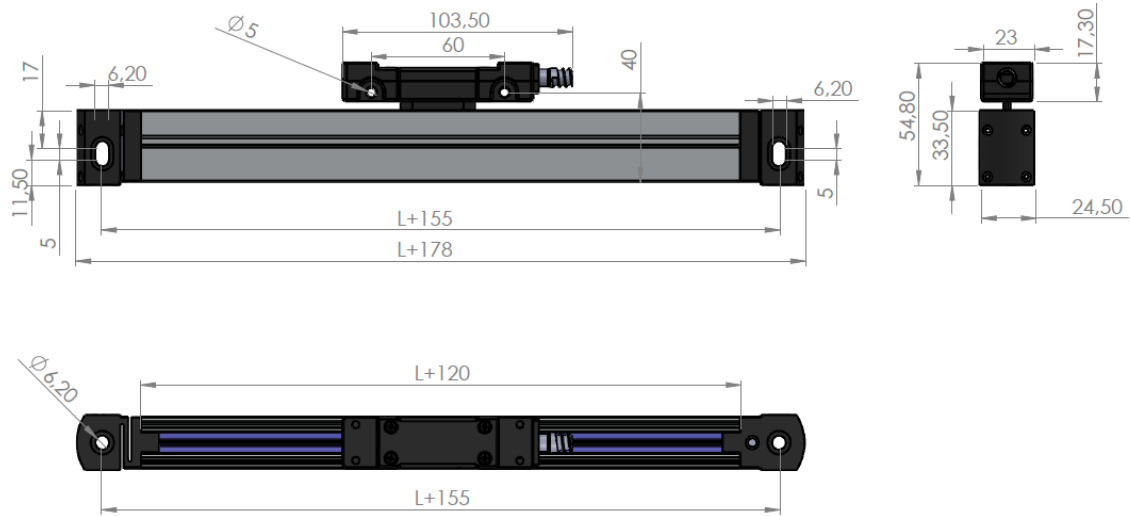
- Lathes, Milling, Drilling, Grinding Machines
- Sheet Metal Working Machines
- Welding Machines
- Bending Machines
- Robotics/Materials Handling
- Marble Machines
- Wood Cutting Machines
- PVC Profile Cutting Machines
- Glass Working Machinery
- Etc...**

Technical Specifications	
Resolution	1µm, 5µm, 10µm, 25µm, 50 µm, 62.5µm, 80µm (optional other resolutions)
Measuring Principle	Magnetic
Output Type	Push-Pull or TTL RS422 Line Driver
Output Signals	A, /A, B, /B, Z, /Z
Input Current	Maximum 40 mA per Channel
Supply Voltage	PPL: 10..30 VDC or TTL: 5 VDC
Body Material	Sensor: Nickel Plated Aluminum Scale Profile: Anodized Aluminum
Electrical Connection	D-Sub 9 Pin, 5 or 8 x 0,14 mm ² shielded cable
Tape Reading Distance	0,1 mm to 2 mm
Accuracy	± 40 µm/m or ± 20 µm/m
Operating Speed	3 m/s
Repeatability	± 1 Pulse
Operating Temperature	-25°C ... +85°C
Protection Class	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	

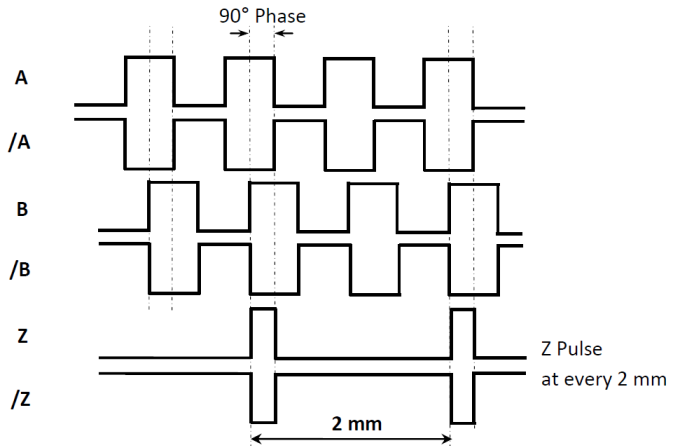
*Please contact for other strokes.

Mechanical Dimensions



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

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.

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

Magnetic Tape

82

MLC320

XX

XX

XXX

X

XX

X

XXX mm

Model

Resolution

01 : 1µm | **05** : 5µm
10 : 10µm | **25** : 25µm
50 : 50µm | **62,5** : 62,5µm
80 : 80µm

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 2 mm

Cable Type

C : PUR Cable
S : Spiral

Atek Sensor Technologies



DS-MLC.003 Rev No:1

Tuzla Kimya Sanayicileri Org. San. Bolg. Melek Aras Bulvari, No:67 34956 Tuzla - Istanbul / TURKEY

Tel: +90 216 399 44 04

Fax: +90 216 399 44 02

www.ateksensor.com

info@ateksensor.com