

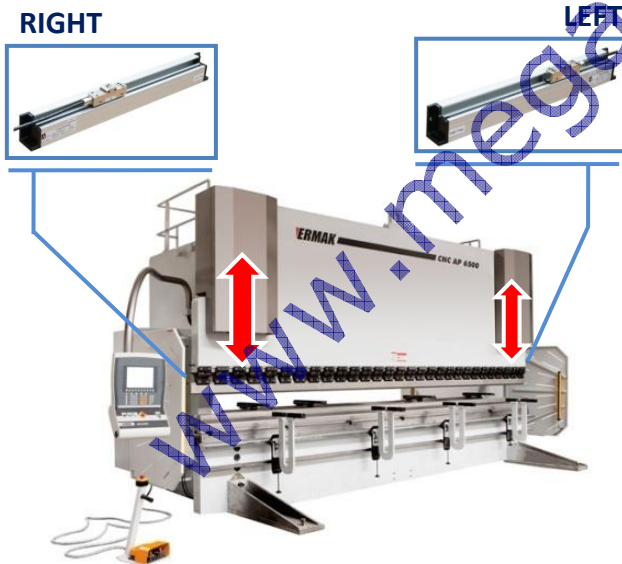


- RS422 Differential Quadrature Output
- Excellent Stability of the Signals
- Contactless System
- Robust Shielded Metal Enclosure
- Fully Sealed, Protection Class IP67
- Resistant to Dirt, Humidity and Dust
- Withstands Shock and Vibration
- Single Reference Marker
- Compressed Air Inlet at the Scale End Blocks
- Double Protection Along the Sliding Side (Four Lip Seals)

The large forces required in metal forming operations can provoke machine deformation which in turn puts strain on the linear encoder. This strain will affect the performance of the linear encoder and may lead to a reduction of accuracy or repeatability in the forming operation. In order to solve this problem is designed the MLC 410 incremental linear encoder, especially for press brake applications.

Especially it is recommended for applications with a measuring length of up to 2040 mm in high speed and high vibration environments and small places. The special design of the mounting points minimizes accuracy errors due to temperature changes. On the other hand, the MLC 410 series includes a special support that further improves its behavior against the vibrations caused by the machine.

The reader head of this linear encoder has a connector. The linear encoder is supplied as a pre assembled unit. The linear encoder and reader sensor are connected to the aluminum support and it can be connected directly to the machine.

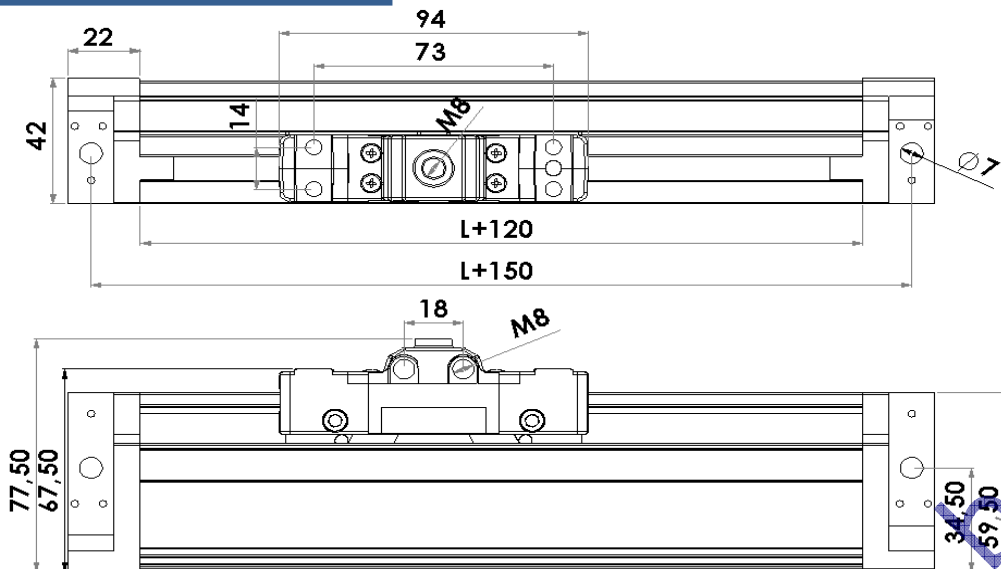


Technical Specifications	
Resolution	Standard: 5µm, 10µm, 25µm, 62.5µm (Or on request)
Output Type	Push-Pull or TTL RS422 Line Driver
Output Signals	A, /A, B, /B, Z, /Z
Input Current	Maximum 40 mA (per Channel)
Power Supply	PPL:10..30 VDC or TTL:5 VDC
Housing Material	Sensor: Nickel Plated Aluminum Scale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

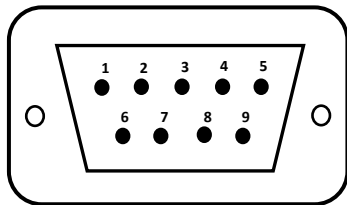
### Measurement Stroke (mm)

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  
**PP** : 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  
2.000 mm)

MLC410 - X X - X X - X X X - X - X X - X - X X X mm - X

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

\* Optional One Z Reference  
Signal

Sensor Type

C : Cable  
S : Spiral

LEFT /  
RIGHT

L : Left  
R : Right



## ATEK SENSOR TECHNOLOGY AG

Cevizli Mah. Bagdat Cad. Guven Sok. No:11 34846 Maltepe-Istanbul / TURKEY

Tel: 0216 399 44 04

Fax: 0216 399 44 02

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

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

