

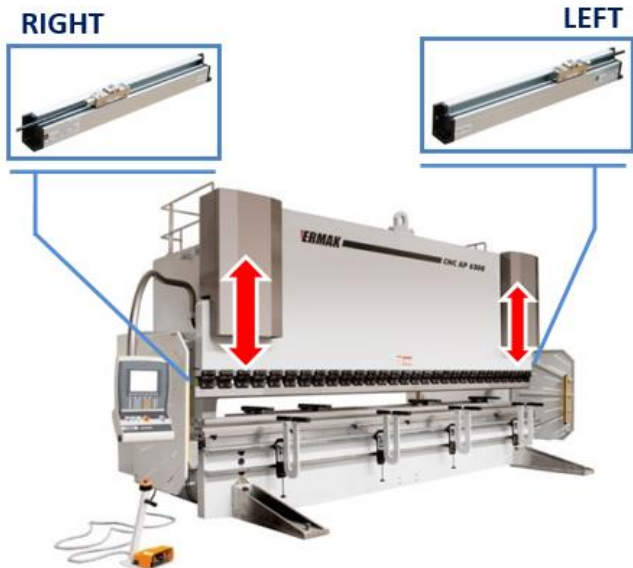
MAGNETIC LINEAR ENCODER SYSTEM

MLC 410

“For Press Brake and Bending Machines”



- Self-bearing integrated ball system
- Magnetic measurement
- Contactless / non-friction system
- High tolerance to vibration and shocks
- Easy mounting with wide mounting tolerances
- Stroke up to 4 meters
- Resistant to dust, oil and moisture
- Robust aluminum body
- Excellent Stability
- IP67 Protection Class
- Compatible with Delem, Cybelec, ESA and STEP



Designed and manufactured entirely in Türkiye by ATEK Sensor, the MLC 410 Series Magnetic Linear Encoders operate on a non-contact measurement principle and provide the measurement signal as an incremental encoder pulse output.

Developed to ensure high measurement stability under vibrating operating conditions, the MLC 410 Series scales are equipped with 4 bearing wheels and specially designed for press brake applications. Thanks to their advanced bearing structure, measurement errors caused by vibration are minimized.

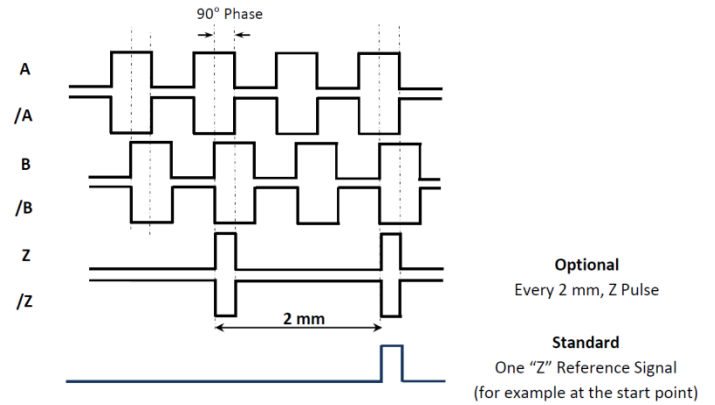
The MLC 410 Series is used in press brakes for position control and synchronization of the right and left hydraulic cylinders. In addition, it can be reliably used in various industrial applications where vibration is present.

TECHNICAL SPECIFICATION

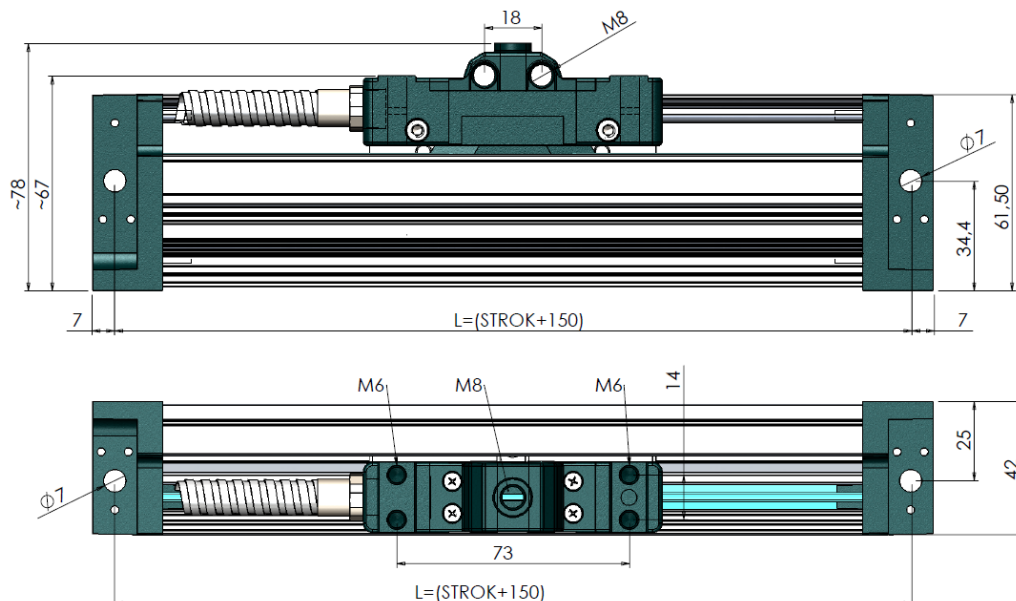
Resolution	1µm, 5µm, 10µm, 25µm, 50 µm, 62.5µm, 100µm (Or on request)
Output Type	Push-Pull or TTL RS422 Line Driver
Output Signals	A, /A, B, /B, Z, /Z
Input Current	40 mA/channel max.
Accuracy	± 40 µm/m max.
Power Supply	PPL:10..30 VDC or TTL:5 VDC
Body Material	Sensor: Nickel Plated Aluminum Scale Profile: Anodized Aluminum
Magnetic Tape	B5
Operating Speed	3 m/s
Repeatability	± 1 Pulse
Operating Temperature	-25 ile +85°
Electrical Connection	D-Sub 9 Pin socket, 5 or 8 x 0,14 mm2 shielded cable
Protection Class	IP67
Compatible Systems	ESA, DELEM, CYBELEC

ELECTRICAL CONNECTION

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



MECHANICAL DIMENSIONS (mm)



www.ateksensor.com

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

ORDER CODE

MLC410

-

X

X

-

X

X

-

X

X

X

-

X

-

X

X

-

X

-

X

X

X

mm

-

X

Model

Resolution

05 : 5µm | 10 : 10µm

25 : 25µm | 50 : 50µm

62 : 62,5µm | 100 :100µm

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.

Sensor/Cable Type

C : PUR Cable

S : Spiral

LEFT / RIGHT

L : Left

R : Right

Signal Output Type

2 : A, B

3 : A, B, Z

4 : A, /A, B, /B

6 : A, /A, B, /B, Z, /Z

Standard, single Z reference signal

Optional, Z signal at every 2 mm

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
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15M : 15 meters
 * Please ask for other options

Measuring Stroke

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

MLC410																-	X	X	-	X	X	-	X	X	X	-	X	-	X	X	X	X	mm	-	X
Model		Resolution				Signal Output Type				Sensor/Cable Type				LEFT / RIGHT																					
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