

MAGNETIC LINEAR ENCODER SYSTEM

MLC 420

“For Press Brake and Bending Machines”



- Incremental Encoder Output A, B, Z, / A, / B, / Z
- Portable Reference Point
- Stroke Values up to 2000 mm
- Socket Building
- Perfect Retention System
- High Stability
- IP65 Protection Class
- Easy Installation
- Same Ruler Available Right or Left
- Compatible with Delem, Cybelec, ESA and STEP

Developed by ATEK Sensor R&D engineers and manufactured entirely in Türkiye, the MLC 420 Series Magnetic Linear Encoders provide reliable and precise measurement performance in linear measurement applications up to 2000 mm, even under high-speed and high-vibration operating conditions.

Thanks to their specially designed mounting structure and mechanical design, measurement errors caused by temperature variations are minimized. In addition, specific design measures have been implemented to reduce the effects of machine-induced vibrations on measurement performance.

With its ergonomic and compact design, the cable outlet does not interfere with the movement or operation of the measuring scale. As a result, the MLC 420 delivers high stability, accuracy, and reliability even under demanding operating conditions.

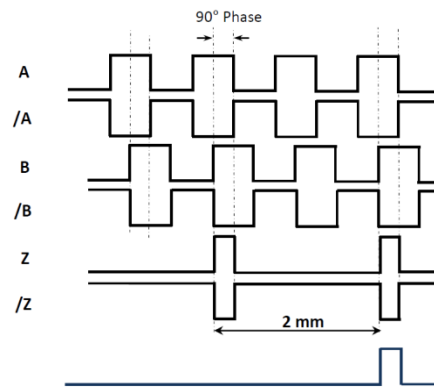
The direction of the scale can be easily changed by the user.

TECHNICAL SPECIFICATION

Resolution	1µm, 5µm, 10µm, 25µm, 50 µm
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	Aluminum
Magnetic Tape	B2
Operating Speed	3 m/s
Repeatability	± 1 Pulse
Operating Temperature	-25 ile +85°
Electrical Connection	5 or 8 x 0,14 mm ² D-Sub 9 Pin compatible with Delem, Cybelelec, ESA
Protection Class	IP65

ELECTRICAL CONNECTION

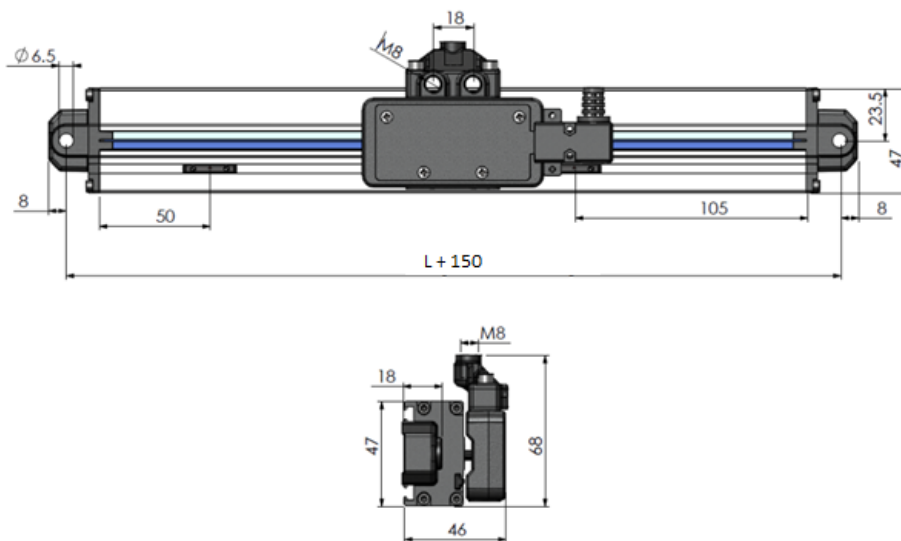
SIGNAL	CABLE COLOR	D-SUB 9 PIN / SOCKET PIN NO
A	Yellow	1
/B	White	2
+V	Red	3
0V	Black	4
/A	Blue	5
B	Green	6
/Z	Grey	7
Z	Pink	8
-	Shield	9



Optional
Every 2 mm, Z Pulse

Standard
One "Z" Reference Signal
(for example at the start point)

MECHANICAL DIMENSIONS (mm)



Standard Stroke Lengths (L) (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		

ORDER CODE

Magnetic Tape										Power Supply and Output										Cable Length										Measuring Stroke																			
B2										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										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										See standard stroke lengths table, contact for other stroke lengths.																			
MLC420										-	X	X	-	X	X	-	X	X	X	-	X	-	X	X	-	X	-	X	X	X	mm	-	X																
Model										Resolution										Signal Output Type										Sensor/Cable Type										LEFT / RIGHT									
										01 : 1µm 05 : 5µm 10 : 10µm 25 : 25µm 50 : 50µm										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										C : PUR Cable										L : Left R : Right									