

MAGNETIC READER SENSORS

MLS 120 / 121

"Soketli veya Kablolu / Küçük Yapı"





- Model with socket (MLS 120) or cable (MLS 121)
- Model with scraper or without scraper
- Easy mounting
- Resolution from 1 μm to 100 μm
- High accuracy
- Spiral or cable option
- Dust, oil and moisture resistant
- Robust aluminum body
- IP67 protection class

ML 12X series sensor sensors can be used with magnetic stripe tape as well as PS1 profile system and PS2 profile system. Without touching the magnetic tape, it moves position 0,1 - 2 mm and precisely reads the position information and sends it as encoder pulse. Its small structure provides maximum installation convenience to the user. Due to optional integrated scraper on the sensor body, it is extra protected from dust, dirt, sawdust, etc. which may be formed on the magnetic tape or profile that it moves on. Models with socket (MLS 120) and cable (MLS 121) are available. Cable type can be requested as PUR or spiral cable.

Applications:

- Machining Centers
- PVC Cutting Machines
- Wood Cutting Machines
- Lathes, Milling, Drilling, Grinding Machines
- Sheet Metal Working Machines
- Marble Machines
- Welding Machines
- Bending Machines
- Electrical Discharge Machines
- Robotics / Material Handling
- Glass Working Machinery etc...

DS-MLS.004 Rev No:0



- With PUR Cable -

- With PUR Cable -

MLS-121 (Model with cable)



- With Spiral Cable -

- Without Scraper -



- With Spiral Cable -

- Without Scraper -

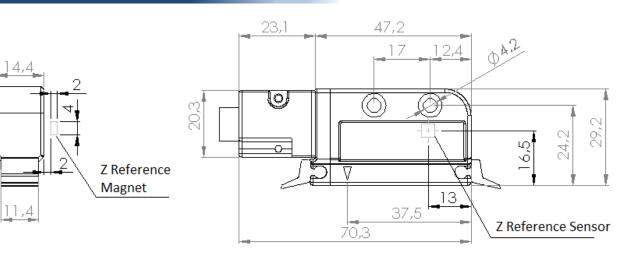




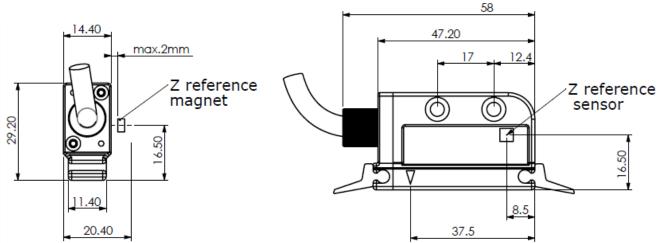


MECHANICAL DIMENSIONS (mm)

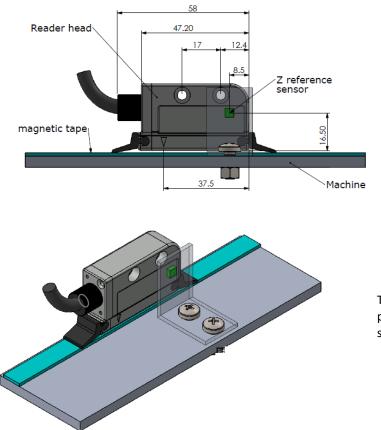
MLS-120 (with socket)

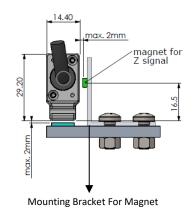


MLS-121 (with cable)



EXTERNAL Z REFERENCE SIGNAL





The magnet and Z reference sensor must be parallel to each other for the external Z reference signal.

WARNING (!) The sensor and magnetic tape must be away from magnetic areas. The proximity of the band with comparator, magnet or similar instruments having a magnetic effect, disrupts the working structure of the band.

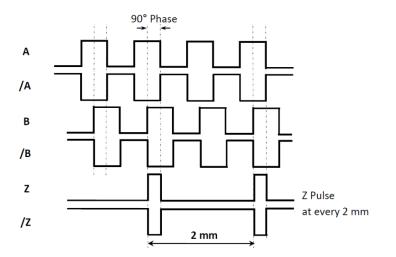
TECHNICAL FEATURES						
Measurement Principle	Magnetic, non-contact					
Resolution	1µm, 5µm, 10µm, 25µm, 50µm, 62.5µm, 80µm, 100µm (Optional others)					
Supply And Output		РР	TTL	HTL	HPL	
	Supply	1030 VDC	5 VDC	1030 VDC	530 VDC	
	Output	1030 VDC Push-pull	5 VDC TTL RS422 Line Driver	5 VDC TTL RS422 Line Driver	530 VDC Push-pull	
Output Signals	A, /A, B, /B, Z, /Z					
Current Consumption	40 mA / channel max.					
Repeatabiliy	± 1 Pulse					
Gap between tape and sensor	0,1 mm to 2 mm					
Operating Speed	3 m/s					
Operating Temperature	-25+85 °C					
Storage Temperature	-40+100 °C					
Electrical Connection	D-Sub 9 pin connector, 5 or 8 x 0,14 mm ² shielded cable					
IP Protection Class	IP67					
Material	Aluminum					

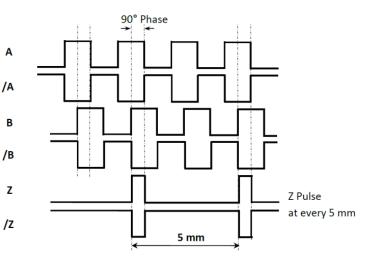
SIGNAL	CABLE COLOR	D-SUB 9 PIN / SOCKET PIN NO
A	YELLOW	1
/В	WHITE	2
+V	RED	3
0V	BLACK	4
/A	BLUE	5
В	GREEN	6
/Z	GREY	7
Z	PINK	8
-	SHIELD	9

In the left table the cable colors of sensors output signals are given. If the control circuit is suitable in the Line Driver sensors of the not output signals (/A, /B, /Z) have to be added to the system. If it is not suitable /A, /B, /Z signal cables must be fixed as insulated separately. Don't forget that these edges have electricity too.

- B5 Tape -







MAGNETIC TAPE AND PROFILE SYSTEMS USED WITH MLS 120 SERIES



- PS1 Profile System
- PS2 Profile System
- B2 or B5 Magnetic Tape

