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Specifications/linear scale encoder (detection portion)

Type name

70 36 • ω _4 78 A5 3-M4 depth 4 equal arrangement φ4.2 1M input/output cord position PCD=70 φ78 \oplus 51 787 16 132 Detail of hook portion П \oplus 00 φ4

Note: Usage warning: The wire may stop midway through retracting. When this happens, slowly pull out the full length and then slowly retract again before using.

Output circuit diagram

Outside dimensions



	Pulse Output circuit number €C=open collector output €C=open collector output €E=line driver output €C4=open collector output DC24V	
Item	MLS- 50-540-2000	MLS- 50-540-4000
Measuring range mm	2,000	4,000
Output pulse/1mm	2.5	2.5
Stroke speed mm/sec	1,000	1,000
Absolute accuracy mm	±2	± 4
Minimum resolution mm	0.4	0.4
Supply voltage	DC5~12V±10% DC24V±10%(option)	
Current consumption	60mA or less (under no load)	
Output phase	A phase, B phase	
Output form	Square wave	
Output capacity	Sink current 20mA or less, residual voltage 0.5V or less (at 10mA)	
Response frequency	100kHz	
Output phase	A, B phase difference 90°±45°	
Waveform rise/fall time	2µsec or less	
Wire tensile force	3.9N~6.8N(400~700gf)	
Working ambient temperature/humidity	0℃~50℃/RH35%~90%	
Storage ambient temperature	−20~80°C	
Vibration resistance	Endurance 10 to 55Hz Double amplitude 2 hours each in X, Y, and Z directions	
Impact resistance	50G	
Cable	Insulated shield wire Outside diameter ϕ 4.2 4-core vinyl wire	
Mass	850g	
Note: The output pulse or resolution is possible to 4 multiple with the counter		

Specifications/micro linear scale (detecting portion + indicating portion)

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Type name	MLS- 50-01-2000	MLS- 50-01-4000
Measuring range mm	2,000	4,000
Output pulse/1mm	10	10
Counter accuracy pulse	±1	±1
Minimum reading	0.1	0.1
Power	AC100V 50/60Hz 180mA max	
Counter mode	10 Decimal	
Count indication	0~±999999.9	
Reset	Reset switch provided *External signal resetting possible	
External output	*BCD parallel output	
Mass	1,350g	
Power cord	2m with plug	

Note: For counter specifications, see DC Series. * indicates option.





A capacitor (0.1 μ F) is connected between 0V and FG (frame ground)