

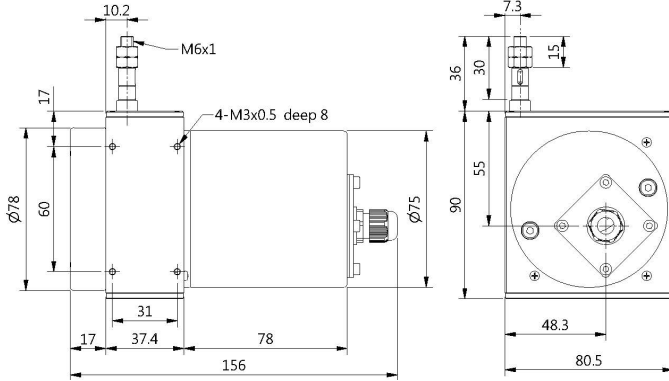
MLA-FA

MAGNETIC SENSOR
LINEAR WIRE MODEL
Analog Output



- Stroke : 500, 750, 1000, 1500, 2000, 3000, 4000 mm
- Output Type : 4-20 mA / 0-5V / 0-10V ● High Resolution : 12 bit
- Application Angle \ Position - Tension \ Speed

DIMENSION



ORDERING INFORMATION

MLA-FA -	Stroke	Signal Output	Signal Sequence
	05 : 500 mm	420 : 4-20 mA	*W : Reversed
	075 : 750 mm	5V : 0-5V	
	10 : 1000 mm	10V : 0-10V	*OPTION
	15 : 1500 mm	(Standard Sequence)	
	20 : 2000 mm		
	30 : 3000 mm		
	40 : 4000 mm		

ELECTRICAL SPEC.

Power Supply	[4-20 mA / 0-5V] DC 12~28V; [0-10V] DC 15~28V
Stroke (mm)	500, 750, 1000, 1500, 2000, 3000, 4000
Output Type	[standard] 4-20mA / 0-5V / 0-10V(increasing); [option] 20-4mA / 5-0V / 10-0V(decreasing)
Sensor Resolution	12 bit (4096)
Response Time	20 ms (0-90%)
Output Loading	[4-20 mA] RL ≤ 750Ω, RL: (V-12)/20 mA; [0-5V / 0-10V] Iout ≥ 1 mA, RL ≥ 10KΩ
Insulation Strength (Vrms)	1KV / min.
Insulation Resistance (MΩ min.)	100 MΩ / 500 Vdc Temp.
Coefficient (ppm/°C)	250 ppm/°C
Current Consumption	≤ 80 mA

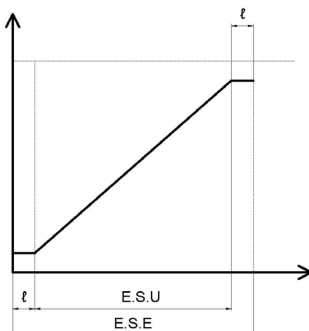
MECHANICAL SPEC.

Wire Specification	SUS304 with nylon coating Diameter: 0.7 mm, Breaking Load: 23 Kgs
Wire Life	Typical > 1X10 ⁶ cycles
Vibration	10-55 Hz / 1.5 mm Vpp / 10 G (max.)
Starting Torque on Spring	Max. 900 g
Cable	Ø4.5, 1000 mm long
Weight	≤ 1000 g

ENVIRONMENTAL SPEC.

Operating Temp	-10°C ~ 60°C RH 35% ~ 90% (No Condensation)
Storage Temp.	-20°C ~ 80°C
Protection	IP 64: Dust & Dripping Proof (only for sensor housing)

Output Curve



E.S.E. (mm)	500	750	1000
E.S.U (mm)	10~490	10~740	10~990
Max. Travel Speed(mm/sec.)	50	75	100
Nonlinear Error	±0.45%FS		
Repeatability Error	±0.40%FS		

E.S.E. (mm)	1500	2000	3000	4000
E.S.U. (mm)	10~1490	10~1990	20~2980	20~3980
Max. Travel Speed(mm/sec.)	150	200	300	400
Nonlinear Error	±0.25%FS			
Repeatability Error	±0.25%FS			

Electrical Connection

