

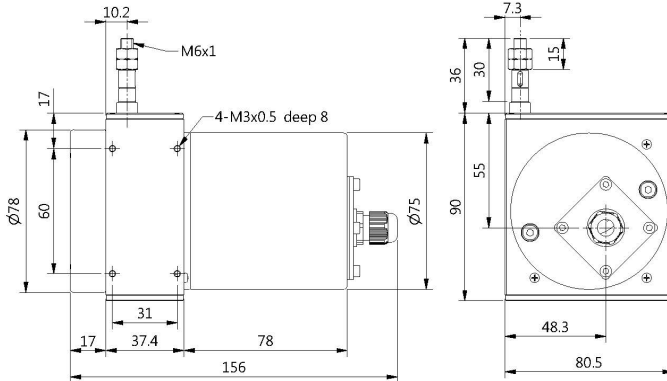
MLA-FA

MAGNETIC SENSOR LINEAR WIRE MODEL Analog Output



- Stroke 行程: 500, 750, 1000, 1500, 2000, 3000, 4000 mm
- Output Type 輸出種類: 4-20 mA / 0-5V / 0-10V
- High Resolution 高解析值: 12 bit
- Application 適合: 角度 Angle、位置 Position
張力 Tension、速度 Speed

DIMENSION



ORDERING INFORMATION

MLA-FA -	Stroke 行程	Signal Output 輸出信號	Signal Sequence 信號輸出序列
	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 供應電源	[4-20 mA / 0-5V] DC 12~28V; [0-10V] DC 15~28V
Stroke (mm) 量測行程	500, 750, 1000, 1500, 2000, 3000, 4000
Output Type 輸出信號	[standard] 4-20mA / 0-5V / 0-10V(increasing); [option] 20-4mA / 5-0V / 10-0V(decreasing)
Sensor Resolution 解析	12 bit (4096)
Response Time 輸出反應時間	20 ms (0-90%)
Output Loading 輸出負載	[4-20 mA] $RL \leq 750\Omega$, $RL: (V-12)/20 \text{ mA}$; [0-5V / 0-10V] $I_{out} \geq 1 \text{ mA}$, $RL \geq 10K\Omega$
Insulation Strength 耐壓強度(Vrms)	1KV / min.
Insulation Resistance 絕緣阻抗(M Ω min.)	100 M Ω / 500 Vdc
Temp. Coefficient 溫度系數(ppm/°C)	250 ppm/°C
Current Consumption 消耗電流	$\leq 80 \text{ mA}$

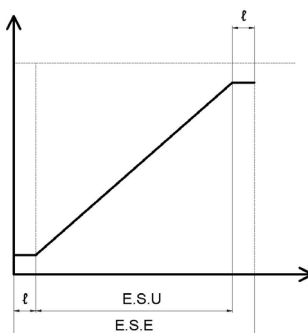
MECHANICAL SPEC.

Wire Specification 線徑規格	SUS304 with nylon coating Diameter: 0.7 mm, Breaking Load: 23 Kgs
Wire Life 壽命	Typical > 1X10 ⁶ cycles
Vibration 震動	10-55 Hz / 1.5 mm Vpp / 10 G (max.)
Starting Torque on Spring 拉力	Max. 900 g
Cable 電線	Ø4.5, 1000 mm long
Weight 重量	$\leq 1000 \text{ g}$

ENVIRONMENTAL SPEC.

Operating Temp. 操作溫度 / 濕度	-10°C ~ 60°C RH 35% ~ 90% (No Condensation)
Storage Temp. 儲存溫度	-20°C ~ 80°C
Protection 保護等級	IP 64: Dust & Dripping Proof (only for sensor housing)

Output Curve



E.S.E.有效電子行程 (mm)	500	750	1000
E.S.U.使用電子行程 (mm)	10~490	10~740	10~990
Max. Travel Speed 最大位移速度(mm/sec.)	50	75	100
Nonlinear Error 非線性誤差	$\pm 0.45\%FS$		
Repeatability Error 重複性誤差	$\pm 0.40\%FS$		

E.S.E.有效電子行程 (mm)	1500	2000	3000	4000
E.S.U.使用電子行程 (mm)	10~1490	10~1990	20~2980	20~3980
Max. Travel Speed 最大位移速度(mm/sec.)	150	200	300	400
Nonlinear Error 非線性誤差	$\pm 0.25\%FS$			
Repeatability Error 重複性誤差	$\pm 0.25\%FS$			

Electrical Connection

