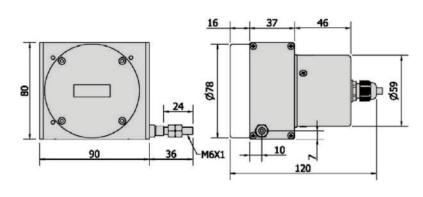
## FFUBA MLS-M拉線式譯碼器 MLS系列





# 4-M3X0.5 Deep 5 [Mounting Hole]

#### **ELECTRICAL SPEC.**

Detection System	Incremental 增量型						
Output Wave 輸出波形	Square Wave 方波						
Stroke (mm) 量測行程	500, 1000, 2000, 3000, 4000, 5000						
Standard Resolution (mm/pulse) 解析	1, 0.5, 0.2, 0.1, *0.05 mm/pulse (*0.05 mm/pulse only for stroke: 500, 1000, 2000 mm)						
Accuracy 精度	(stroke 500 ~ 1000 mm) ±0.03% FS, ±1 count; (stroke 2000 ~ 5000 mm) ±0.05% FS, ±1 count						
Output Phase 輸出相	AB phase or ABZ phase						
Electronics 電路特性	NPN Voltage, NPN Open Collector, Push Pull or Line Driver						
Power Supply 供應電源	DC 8~26V, DC 5V fixed						
Current Consumption 消耗電流	≤ 60 mA						
Output Capacity 輸出容量	Sync. Current: 20 mA, Residual Voltage: 0.5V or less						
Max. Response 最大嚮應頻率	10K Hz ~ 50K Hz						
Phase Different 相位差	A, B phase different 90°±45° (T/4±T/8), Z phase T±T/2						
Wave Form Rise / Fall 波形上下時間	2 μs or less						
Polarity 極性保護	Against Reverse Protection (not with DC 5V)						

#### MECHANICAL SPEC.

Material: SUS304 with nylon coating (stroke < 3 m) Diameter: 0.6 mm; Breaking load: 16 Kg (stroke ≥ 3 m) Diameter: 0.7 mm; Breaking load: 23 Kg				
1,000 mm / sec.				
10g (10±1,500 Hz)				
20g per 11 ms				
Ø5.4, 100 cm long				
< 1,000g				
(stroke < 2 m) Max. 600 g; (stroke ≥ 2 m) Max. 900 g				

### **ENVIRONMENTAL SPEC.**

Operating Temp. / Humidity 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	IP64: Dust & Dripping Proof (only for encoder housing)	
Life 喜会	Typical > 1 X 10 <sup>8</sup> cycles	

Life 壽命

#### ORDERING INFORMATION

MLS-M	-
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-[	Measuring Range 量測行程					Output Phase 輸出相	-	Electronics 電路特性		Supply Voltage 供應電源	-	Connection 連接器
	<b>05</b> : 500 mm	30 : 3000 mm	1 : 1 mm	Blank: AB phase	-202 18	Blank: NPN Voltage	Е	Blank: 8~26Vdc		Blank: Axial Cable		
	10: 1000 mm	40 : 4000 mm	05: 0.5 mm	*Z: ABZ phase		C: NPN Open-Collector	5	V: 5Vdc fixed		*R7: Radial 7 pin		
	20 : 2000 mm	50: 5000 mm	02: 0.2 mm			PP: Push-Pull				*R10: Radial 10 pin		
			01: 0.1 mm			*L: Line Driver 5Vdc						
			005: 0.05 mm			*HL: Line Driver 5~26Vdc						

\*0.05 mm/pulse only for stroke: 500, 1000, 2000 mm