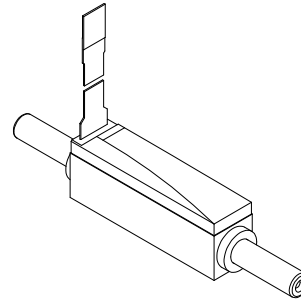


LM 0830...01 with Analog Hall Sensors

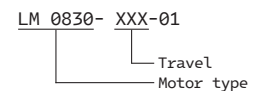
- 推力 : 1.03 N
- 瞬間推力 : 2.74 N
- 解析度 : 2.9 μm (使用內建 Analog Hall Sensor)
- 最高連續移動速度 : 2.4 m/s (依行程不同)



德國 Faulhaber LM 微型伺服線性馬達
內建 Analog Hall Sensor 做位置回饋

搭配控制器做閉迴路力量，速度與位置控制
同時具備多種通訊界面供選擇

建議搭配光學尺和線軌發揮更佳的位置精度與重現性



Technical Specification			Values at 22°C
Continuous force	$F_{e \max.}$	1.03	N
Peak force	$F_{p \max.}$	2.74	N
Continuous current	$I_{e \max.}$	0.53	A
Peak current	$I_{p \max.}$	1.41	A
Back-EMF constant	k_E	1.58	V/m/s
Force constant	k_F	1.94	N/A
Terminal resistance, phase-phase	R	7.37	Ω
Terminal inductance, phase-phase	L	117	μH
Terminal resistance	R_{th1}/R_{th2}	6.6 / 37.4	K/W
Terminal time constant	τ_{w1} / τ_{w2}	4 / 291	s
Operation temperature range		-20 ... +125	°C
Magnetic pitch	τ_m	12	mm
Rod bearings		polymer sleeves	
Housing material		metal, non-magnetic	
Direction of movement		electronically reversible	

		015-01	040-01	
Stroke length	S_{\max}	15	40	mm
Repeatability	O_r	40	40	μm
Accuracy	O_a	120	140	μm
Acceleration	$a_{e \max.}$	206.9	147.8	m/s^2
Speed	$v_{e \max.}$	1.8	2.4	m/s
Rod length	L1	58	82	mm
Rod mass	m_m	5	7	g
Total mass	m_t	15	17	g

Note: These motors are for operation with DC-voltage < 50 V DC. The given values are for free standing motors.

Other rod lengths available on request.

