SANYO DENKI

SANNOTION

LINEAR SERVO MOTOR

Compact Cylinder Linear Servo Motor

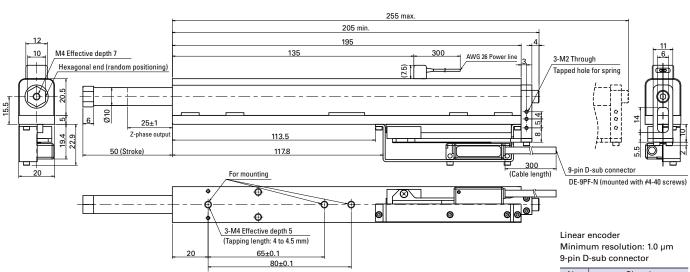
📕 Features

- This 20 mm wide linear motor is an all-in-one product with a built-in linear encoder and linear guide. It has a stroke length of 50 mm and a maximum thrust of 50 N.
- A peak acceleration of 416 m/s² has been achieved. Its improved acceleration and deceleration performance can shorten the cycle time of customer equipment.
- By minimizing magnetic interaction, multiple linear motors can be installed next to each other. The motors can be configured more freely, allowing systems to be downsized and simplified.



Applications

Semiconductor manufacturing equipment, inspection equipment, assembly equipment, lens mounters, flexible printed circuit board (FPC) bonders



Dimensions (Unit: mm)

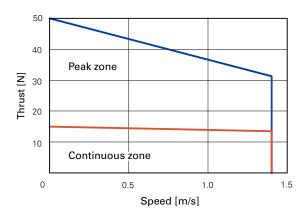
Note: Consult with us or your point of sale for the installation method before finalizing the system design.

No.	Signal	
2	Channel Z	
3	Channel B	
4	Channel A	
5	+5 VDC	
6	Channel Z	
7	Channel B	
8	Channel A	
9	GND	

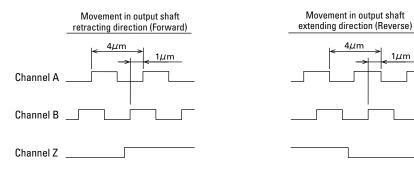
Specifications

ltems	Symbol	Unit	Specification
Model no.			DE0BC005A05CX00
Driving method			Sinusoidal
Excitation method			Permanent magnet
Rated			Continuous
Rated thrust	F _R	Ν	15
Continuous stall thrust	Fs	N	15
Maximum thrust	Fp	N	50
Rated current	I _R	Arms	1.0
Continuous stall current	I _s	Arms	1.0
Maximum current	l _p	Arms	3.2
Rated speed	V _R	m/s	0.7
Maximum speed	V _{max}	m/s	1.4
Mass of movable element	Mc	g	120
Motor mass	W	g	450
Linear encoder			Incremental encoder
Linear encoder resolution (when multiplied by 4)		μm	1

Thrust - Speed Characteristics (48 VDC)



Linear Encoder Signal Output



Compatible Servo Amplifiers

Can be combined with our SANMOTION R servo amplifiers.

Items	Specification				
Model no.	RF2G21L8A10	RS2K04AAHA5	RF2J24A8HL5		
Number of controllable axes		4			
Amplifier capacity	40 A				
Input voltage (main/control circuit)	48/5 VDC 48/2		48/24 VDC		
Interface	Pulse input	EtherCAT			
Dimensions	30×116×70 mm	40 × 160 × 85 mm	50 × 200 × 130 mm		

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