

PRODUCT DATASHEET

ES-LA-C00-S006-V004

Precision Linear Motion Assembly

Micro Servo Electric Cylinder | Electric Actuator Platform 06 Series

Product Overview

Precision Linear Motion Assembly with mechanical Interface Standard interface, speed Grade 7 and cable Diameter 2.3 mm.

Key Specifications

PARAMETER	VALUE	UNIT
Mechanical Interface	Standard interface	
Speed Grade	7	
Cable Diameter	2.3	mm
Cable Length	200	mm
Electrical Interface	LVTTTL serial interface	
Full-load Speed	21	mm/s
Maximum Push/Pull Force	42	N
Maximum Self-locking Force	50	N
No-load Current	0.5	A

Technical Specifications

PARAMETER	SPECIFICATION	UNIT	NOTES
PERFORMANCE			
Full-load Speed	21	mm/s	Speed Class: 07
Maximum Push/Pull Force	42	N	Speed Class: 07
Maximum Self-locking Force	50	N	Speed Class: 07
Repeat Positioning Accuracy	± 0.02	mm	
Stall Push/Pull Force	60	N	Speed Class: 07
ELECTRICAL			
No-load Current	0.5	A	Speed Class: 07
Operating Voltage	$8 \pm 10\%$	V	
Peak Current	2	A	
Static Current	0.02	A	
Electrical Interface	LVTTTL serial interface		Model Code Token: D

Technical Specifications

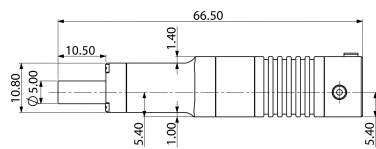
PARAMETER	SPECIFICATION	UNIT	NOTES
MECHANICAL			
Cable Diameter	2.3	mm	
Cable Length	200	mm	
Stroke	10	mm	
Weight	21	g	
INTERFACES			
Mechanical Interface	Standard interface		Model Code Token: 1
ENVIRONMENTAL			
Operating Temperature	-10 to +60	°C	
ADDITIONAL SPECIFICATIONS			
Speed Grade	7		Model Code Token: 07
No-load Speed	50	mm/s	Speed Class: 07
Protection Rating	IP40		

Dimensional & Integration Overview

Mechanical Overview

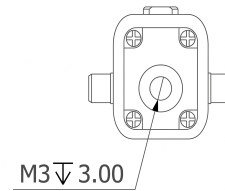
PARAMETER	VALUE	UNIT
Cable Diameter	2.3	mm
Cable Length	200	mm
Stroke	10	mm
Weight	21	g

Dimensional Drawings

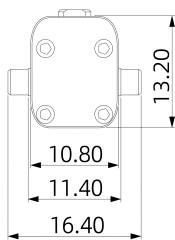


Mechanical View 1

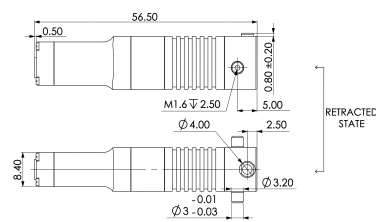
EXTENDED STATE



Mechanical View 2

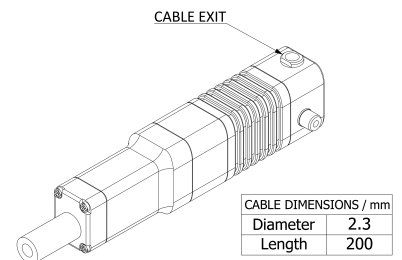


Mechanical View 3



Mechanical View 4

RETRACTED STATE



Mechanical View 5

CABLE DIMENSIONS / mm	
Diameter	2.3
Length	200

2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 1	Extended-state overall length	Overall extended length 66.50 mm
	Extended state label	Extended state
	Left shaft axial length	Left protruding section length 10.50 mm
	Left shaft diameter	Diameter 5.00 mm
	Left end outside height	Outside height 10.80 mm
	Upper shoulder offset	Upper shoulder offset 1.40 mm
	Left lower half-height offset	Left lower offset 5.40 mm
	Lower shoulder offset	Lower shoulder offset 1.00 mm
	Right mounting hole center to lower edge distance	Hole center to lower edge distance 5.40 mm
Mechanical View 2	Lugged interface threaded hole size and depth	M3 threaded hole, depth 3.00
Mechanical View 3	Vertical mounting hole center spacing	13.20 mm
	Horizontal mounting hole center spacing	10.80 mm
	Mounting ear inner width	11.40 mm
	Overall width across ear interface	16.40 mm

2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 4	Retracted overall length	Overall length in retracted state = 56.50 mm
	End step offset	End step offset = 0.50 mm
	Ear thickness tolerance	Ear thickness = 0.80 ± 0.20 mm
	Threaded hole size and depth	M1.6 threaded hole, depth 2.50 mm
	Mounting hole center offset from end face	Mounting hole center offset from end face = 5.00 mm
	Hole diameter	Hole diameter = $\Phi 4.00$ mm
	End feature offset	End feature offset = 2.50 mm
	Body height	Body height = 8.40 mm
	Hole diameter	Hole diameter = $\Phi 3.20$ mm
	Shaft diameter with unilateral tolerance	Shaft diameter = $\Phi 3$ mm, upper deviation -0.01 mm, lower deviation -0.03 mm
Mechanical View 5	Cable dimensions table unit	Cable dimensions listed in mm

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01 Specifications are subject to change without notice. Verify the current product configuration before final design release.

02 2D drawings, CAD files and integration documentation are controlled documents and are supplied separately on request.