

PRODUCT DATASHEET

ES-LA-C00-S010-V001

Precision Linear Motion Assembly

Micro Servo Electric Cylinder | Electric Actuator Platform 10 Series

Product Overview

Precision Linear Motion Assembly with mechanical Interface Joint bearing, speed Grade 2 and cable Diameter 2.3 mm.

Key Specifications

PARAMETER	VALUE	UNIT
Mechanical Interface	Joint bearing	
Speed Grade	2	
Cable Diameter	2.3	mm
Cable Length	200	mm
Electrical Interface	LVTTL serial interface	
Force Sensor Resolution	1	N
Full-load Speed	8	mm/s
Maximum Push/Pull Force	70	N
Maximum Self-locking Force	100	N

Technical Specifications

PARAMETER	SPECIFICATION	UNIT	NOTES
PERFORMANCE			
Full-load Speed	8	mm/s	Speed Class: 02
Maximum Push/Pull Force	70	N	Speed Class: 02
Maximum Self-locking Force	100	N	Speed Class: 02
Repeat Positioning Accuracy	± 0.02	mm	
Stall Push/Pull Force	100	N	Speed Class: 02
ELECTRICAL			
No-load Current	0.23	A	Speed Class: 02
Operating Voltage	$8 \pm 10\%$	V	
Peak Current	2	A	
Static Current	0.05	A	
Electrical Interface	LVTTTL serial interface		Model Code Token: D

Technical Specifications

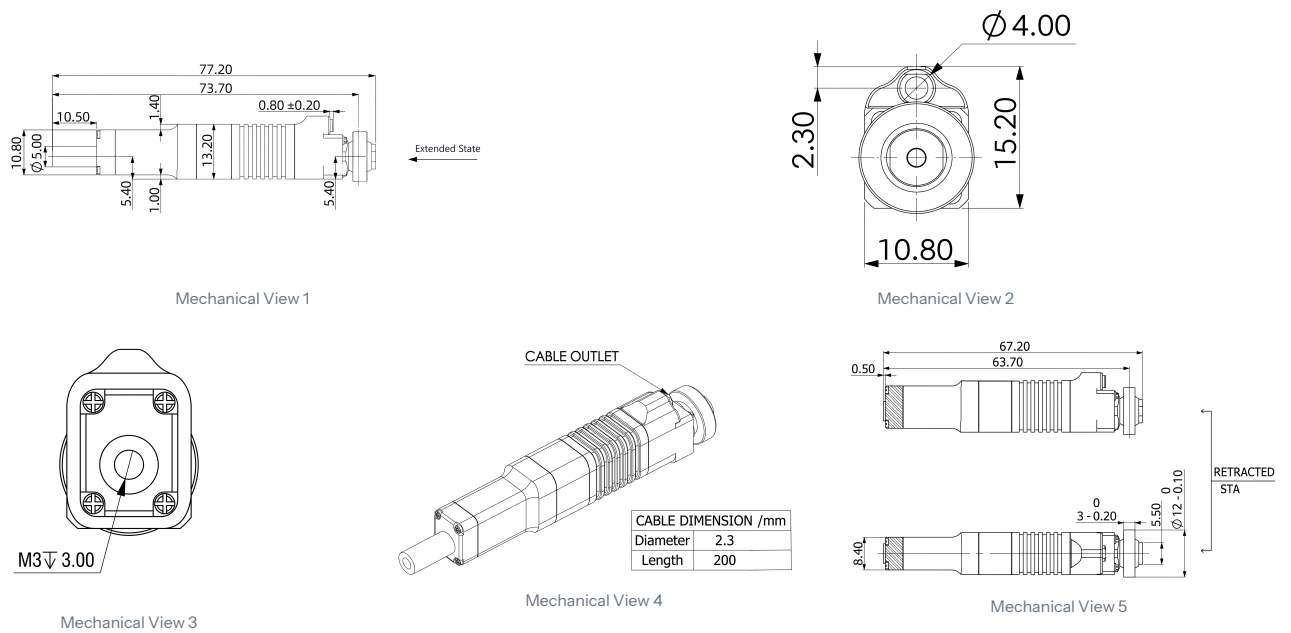
PARAMETER	SPECIFICATION	UNIT	NOTES
MECHANICAL			
Cable Diameter	2.3	mm	
Cable Length	200	mm	
Stroke	10	mm	
Weight	29	g	
INTERFACES			
Mechanical Interface	Joint bearing		Model Code Token: 4
ENVIRONMENTAL			
Operating Temperature	-10 to +60	°C	
ADDITIONAL SPECIFICATIONS			
Speed Grade	2		Model Code Token: 02
Force Sensor Resolution	1	N	
No-load Speed	18	mm/s	Speed Class: 02
Protection Rating	IP40		

Dimensional & Integration Overview

Mechanical Overview

PARAMETER	VALUE	UNIT
Cable Diameter	2.3	mm
Cable Length	200	mm
Stroke	10	mm
Weight	29	g

Dimensional Drawings



2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 1	Overall length in extended state	Overall extended length 77.20 mm
	Extended state body length	Extended body length 73.70 mm
	End axial clearance or travel allowance	0.80 ± 0.20 mm
	Shoulder step offset	Step offset 1.40 mm
	Left shaft interface axial length	Left shaft interface length 10.50 mm
	Left shaft diameter	Diameter 5.00 mm
	Left end outer height	Outer height 10.80 mm
	Middle body outer height	Middle body outer height 13.20 mm
	State label	Extended state
	Left lower local height	Local height 5.40 mm
	Right end local height	
	Lower step offset	Lower step offset 1.00 mm
Mechanical View 2	Top small hole diameter	Diameter 4.00
	Left local vertical dimension	2.30
	Right overall vertical dimension	15.20
	Bottom width dimension	10.80
Mechanical View 3	M3 threaded hole depth	M3 thread, depth 3.00

2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 5	Retracted overall length	67.20
	Retracted internal length to end feature	63.70
	End offset dimension	0.50
	Retracted state label	Retracted state
	Joint bearing interface diameter with tolerance	Diameter 12, upper tolerance 0, lower tolerance -0.10
	Interface spacing dimension	5.50
	End step width with tolerance	3, upper tolerance 0, lower tolerance -0.20
	Left end height dimension	8.40

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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.