

PRODUCT DATASHEET

ES-LA-C00-S017-V001

Precision Linear Motion Assembly

Micro Servo Electric Cylinder | Electric Actuator Platform 17 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	4	mm/s
Maximum Push/Pull Force	105	N
Maximum Self-locking Force	150	N

Technical Specifications

PARAMETER	SPECIFICATION	UNIT	NOTES
PERFORMANCE			
Full-load Speed	4	mm/s	Speed Class: 02
Maximum Push/Pull Force	105	N	
Maximum Self-locking Force	150	N	Speed Class: 02
Repeat Positioning Accuracy	± 0.03	mm	
Stall Push/Pull Force	150	N	Speed Class: 02
ELECTRICAL			
No-load Current	0.53	A	Speed Class: 02
Operating Voltage	$8 \pm 10\%$	V	
Peak Current	2	A	
Static Current	0.05	A	
Electrical Interface	LVTTL serial interface		Model Code Token: D

Technical Specifications

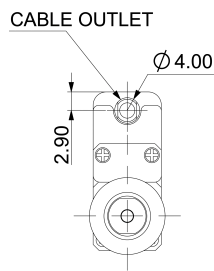
PARAMETER	SPECIFICATION	UNIT	NOTES
MECHANICAL			
Cable Diameter	2.3	mm	
Cable Length	200	mm	
Stroke	16	mm	
Weight	36	g	
INTERFACES			
Mechanical Interface	Joint bearing		Model Code Token: 4
ENVIRONMENTAL			
Operating Temperature	-10 to +60	°C	
ADDITIONAL SPECIFICATIONS			
Speed Grade	2		Model Code Token: 02
Force Sensor Resolution	1	N	
No-load Speed	13	mm/s	Speed Class: 02
Protection Rating	IP40		

Dimensional & Integration Overview

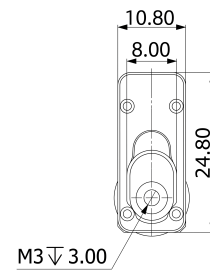
Mechanical Overview

PARAMETER	VALUE	UNIT
Cable Diameter	2.3	mm
Cable Length	200	mm
Stroke	16	mm
Weight	36	g

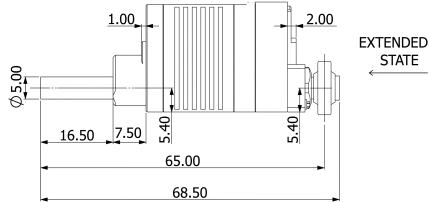
Dimensional Drawings



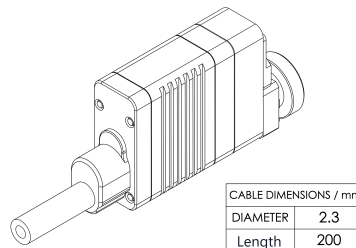
Mechanical View 1



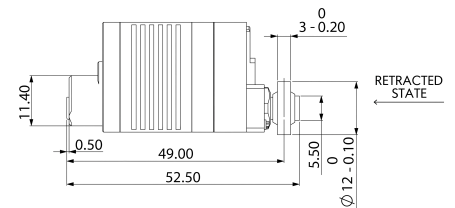
Mechanical View 2



Mechanical View 3



Mechanical View 4



Mechanical View 5

2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 2	Overall outer width	Overall outer width 10.80 mm
	Mounting hole center spacing or inner mounting width	Mounting spacing 8.00 mm
	Overall height	Overall height 24.80 mm
	M3 threaded hole depth	M3 thread, depth 3.00 mm
Mechanical View 3	Left-side axial step offset	1.00 mm
	Right-side axial end offset	2.00 mm
	Operating state label	Extended state
	Left output shaft diameter	Diameter 5.00 mm
	Middle body local vertical size	5.40 mm
	Left stepped shaft section length	7.50 mm
	Left output shaft protrusion length	16.50 mm
	Extended-state reference length to joint center	65.00 mm
	Overall length in extended state	68.50 mm
	Left-end small shoulder length	0.50 mm
Mechanical View 5	Length to right joint-bearing centerline	49.00 mm
	Retracted-state overall length	52.50 mm
	Right joint-bearing small feature size	5.50 mm
	Right-side diameter tolerance values	+0/-0.10 tolerance; nominal diameter not captured by OCR source

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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.