

PRODUCT DATASHEET

ES-LA-C00-S007-V003

Precision Linear Motion Assembly

Micro Servo Electric Cylinder | Electric Actuator Platform 07 Series

Product Overview

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

Key Specifications

PARAMETER	VALUE	UNIT
Mechanical Interface	Octagonal interface	
Speed Grade	2	
Cable Diameter	2.3	mm
Cable Length	200	mm
Electrical Interface	LVTTL serial interface	
Full-load Speed	8	mm/s
Maximum Push/Pull Force	70	N
Maximum Self-locking Force	100	N
No-load Current	0.2	A

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	± 0.03	mm	
Stall Push/Pull Force	100	N	Speed Class: 02
ELECTRICAL			
No-load Current	0.2	A	Speed Class: 02
Operating Voltage	$8 \pm 10\%$	V	
Peak Current	2	A	
Static Current	0.02	A	
Electrical Interface	LVTTTL serial interface		

Technical Specifications

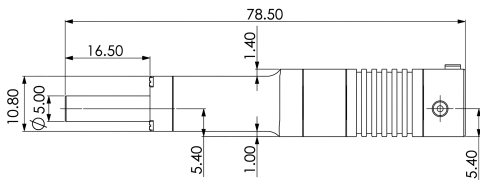
PARAMETER	SPECIFICATION	UNIT	NOTES
MECHANICAL			
Cable Diameter	2.3	mm	
Cable Length	200	mm	
Stroke	16	mm	
Weight	23	g	
INTERFACES			
Mechanical Interface	Octagonal interface		Model Code Token: 3
ENVIRONMENTAL			
Operating Temperature	-10 to +60	°C	
ADDITIONAL SPECIFICATIONS			
Speed Grade	2		Model Code Token: 02
No-load Speed	18	mm/s	Speed Class: 02
Protection Rating	IP40		

Dimensional & Integration Overview

Mechanical Overview

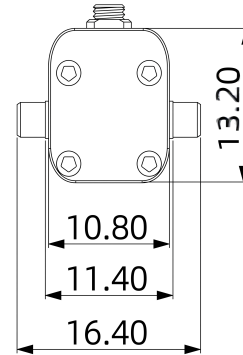
PARAMETER	VALUE	UNIT
Cable Diameter	2.3	mm
Cable Length	200	mm
Stroke	16	mm
Weight	23	g

Dimensional Drawings

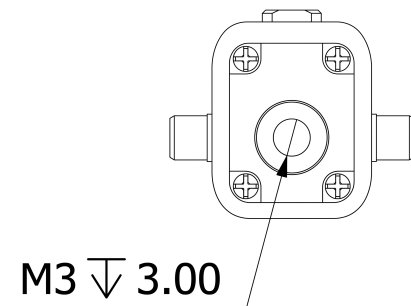


Mechanical View 1

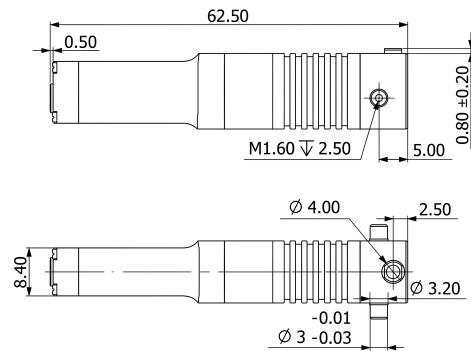
Extended state



Mechanical View 2



Mechanical View 3



Mechanical View 4

RETRACTED POSITION
RETRACTED POSITION

2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 1	Total length in extended state	78.50 mm
	Front section partial length (extended end)	16.50 mm
	Neck / transition section width	1.40 mm
	Output shaft diameter	Ø5.00 mm
	Body outer diameter (visible in extended state)	10.80 mm
	View state label	Extended state
	Left step section axial length (lower dimension line)	5.40 mm
	Center step section axial length	1.00 mm
	Right step section axial length (lower dimension line)	5.40 mm
Mechanical View 2	Mounting face height (vertical)	13.20 mm
	Inner span width (smaller horizontal dimension)	10.80 mm
	Middle span width (intermediate horizontal dimension)	11.40 mm
	Overall width (largest horizontal dimension)	16.40 mm
Mechanical View 3	Shaft-end tapped hole specification and depth	M3 tapped hole, depth 3.00 mm

2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 4	Overall length (retracted)	62.50 mm
	End protrusion / step length	0.50 mm
	Threaded hole depth tolerance	0.80 ±0.20 mm
	Thread specification and depth	M1.60, depth 2.50 mm
	Right-end segment length	5.00 mm
	View state label	Retracted Position
	Output shaft diameter	Φ4.00 mm
	Right-end segment length (lower view)	2.50 mm
	Left-end feature length	8.40 mm
	Output shaft small-end diameter	Φ3.20 mm
	Output shaft diameter with tolerance	Φ3 -0.01/-0.03 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.