PRODUCT DATASHEET

ES-LA-C00-S009-V003

Precision Linear Motion Assembly

Micro Servo Electric Cylinder | Electric Actuator Platform 09 Series

Product Overview

Precision Linear Motion Assembly with mechanical Interface Octagonal interface, speed Grade 2 and cable Diameter 1 mm.

Key Specifications

PARAMETER	VALUE	UNIT
Mechanical Interface	Octagonal interface	
Speed Grade	2	
Cable Diameter	1	mm
Cable Length	200	mm
Electrical Interface	LVTTL serial interface	
Full-load Speed	8	mm/s
Maximum Push/Pull Force	50	N
Maximum Self-locking Force	80	N
No-load Current	0.3	A

Technical Specifications

PARAMETER	SPECIFICATION	UNIT	NOTES
PERFORMANCE			
Full-load Speed	8	mm/s	Speed Class: 02
Maximum Push/Pull Force	50	N	Speed Class: 02
Maximum Self-locking Force	80	N	Speed Class: 02
Repeat Positioning Accuracy	± 0.1	mm	
Stall Push/Pull Force	80	N	Speed Class: 02
ELECTRICAL			
No-load Current	0.3	A	Speed Class: 02
Operating Voltage	8 ± 10%	V	
Peak Current	2	A	
Static Current	0.02	A	
Electrical Interface	LVTTL serial interface		Model Code Token: D

Technical Specifications

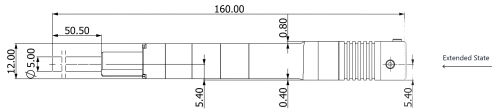
PARAMETER	SPECIFICATION	UNIT	NOTES
MECHANICAL			
Cable Diameter	1	mm	
Cable Length	200	mm	
Stroke	50	mm	
Weight	42	g	
INTERFACES			
Mechanical Interface	Octagonal interface		Model Code Token: 3
ENVIRONMENTAL			
Operating Temperature	-10 to +60	°C	
ADDITIONAL SPECIFICATIONS			
Speed Grade	2		Model Code Token: 02
No-load Speed	17	mm/s	Speed Class: 02
Protection Rating	IP40		

Dimensional & Integration Overview

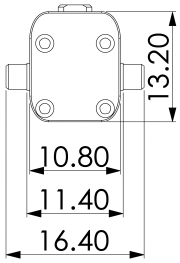
Mechanical Overview

PARAMETER	VALUE	UNIT
Cable Diameter	1	mm
Cable Length	200	mm
Stroke	50	mm
Weight	42	g

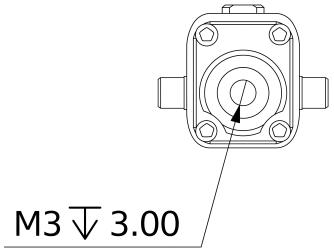
Dimensional Drawings



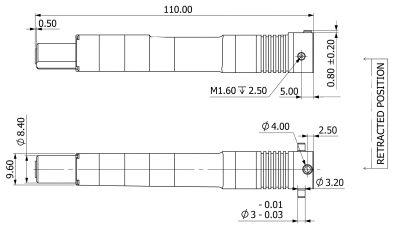
Mechanical View 1



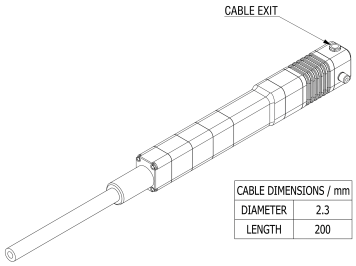
Mechanical View 2



Mechanical View 3



Mechanical View 4



Mechanical View 5

2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 1	Extended-state overall length	160.00 mm
	Upper surface step offset	0.80 mm
	Rod extension length	50.50 mm
	State label	Extended state
	Rod diameter	Diameter 5.00 mm
	Left end outside height	12.00 mm
	Left lower step clearance	5.40 mm
	Middle lower step offset	0.40 mm
	Right lower step clearance	5.40 mm
Mechanical View 2	Ear interface vertical envelope dimension	13.20 mm
	Interface inner width	10.80 mm
	Interface mounting width	11.40 mm
	Ear interface overall width	16.40 mm
Mechanical View 3	Mounting hole thread and depth for ear interface	M3 thread, depth 3.00

2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 4	Retracted overall length	110.00 mm
	End shoulder offset length	0.50 mm
	End cap vertical offset tolerance	0.80 ± 0.20 mm
	Threaded hole specification and depth	M1.60 thread, depth 2.50 mm
	Side hole axial locating distance	5.00 mm
	View state label	Retracted position
	Upper side hole diameter	Diameter 4.00 mm
	Rod end diameter	Diameter 8.40 mm
	Boss axial locating distance	2.50 mm
	Rod end outer diameter or vertical size	9.60 mm
	Lower side hole diameter	Diameter 3.20 mm
	Bottom pin hole diameter with unilateral tolerances	Diameter 3 mm, upper deviation -0.01 mm, lower deviation -0.03 mm
Mechanical View 5	Cable dimensions table unit	Cable dimensions are specified in millimeters

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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.