

PRODUCT DATASHEET

ES-LA-C00-S008-V003

Precision Linear Motion Assembly

Micro Servo Electric Cylinder | Electric Actuator Platform 08 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	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	± 0.06	mm	
Stall Push/Pull Force	80	N	Speed Class: 02
ELECTRICAL			
No-load Current	0.3	A	Speed Class: 02
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

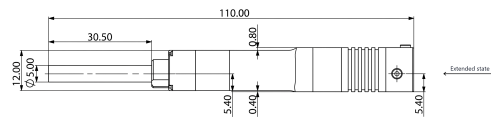
PARAMETER	SPECIFICATION	UNIT	NOTES
MECHANICAL			
Cable Diameter	2.3	mm	
Cable Length	200	mm	
Stroke	30	mm	
Weight	30	g	
INTERFACES			
Mechanical Interface	Octagonal interface		Model Code Token: 3
ENVIRONMENTAL			
Operating Temperature	-10 to +60	°C	
ADDITIONAL SPECIFICATIONS			
Speed Grade	2		Model Code Token: 02
No-load Speed	17	mm/s	Speed Class: 02
Protection Rating	IP40		

Dimensional & Integration Overview

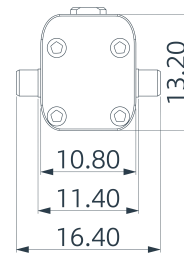
Mechanical Overview

PARAMETER	VALUE	UNIT
Cable Diameter	2.3	mm
Cable Length	200	mm
Stroke	30	mm
Weight	30	g

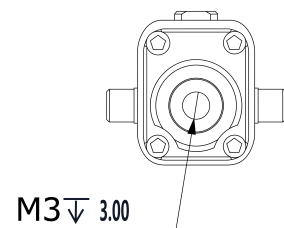
Dimensional Drawings



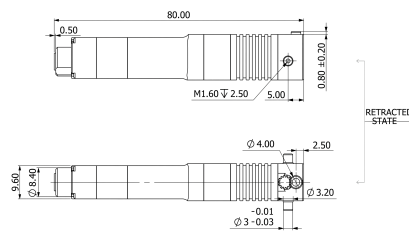
Mechanical View 1



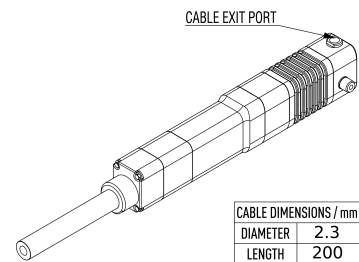
Mechanical View 2



Mechanical View 3



Mechanical View 4



Mechanical View 5

2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 1	Overall length in extended state	110.00 mm
	Extension rod length	30.50 mm
	Upper step height offset	0.80 mm
	Extension rod diameter	Diameter 5.00 mm
	Left rod/interface outside height	12.00 mm
	Operating state label	Extended state
	Middle body lower height	5.40 mm
	Lower step height offset	0.40 mm
Mechanical View 2	mounting ear interface vertical overall height	13.20 mm
	mounting ear interface inner width	10.80 mm
	mounting ear interface intermediate width	11.40 mm
	mounting ear interface overall width	16.40 mm
Mechanical View 3	M3 threaded hole depth	M3 threaded hole, depth 3.00 mm

2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 4	Retracted overall length	80.00 mm
	End step offset	0.50 mm
	Top protrusion height tolerance	0.80 ± 0.20 mm
	Threaded hole size and depth	M1.60 thread, depth 2.50 mm
	Side hole center distance from end face	5.00 mm
	State label	Retracted state
	Side hole diameter	Diameter 4.00 mm
	Top boss center offset	2.50 mm
	Left end shaft diameter	Diameter 8.40 mm
	Left end outside height	9.60 mm
	Bottom hole diameter	Diameter 3.20 mm
	Lower axial dimension upper deviation	Upper deviation -0.01 mm
	Lower diameter with lower deviation	Diameter 3 mm, lower deviation -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.