PRODUCT DATASHEET

ES-LA-C00-S011-V003

Precision Linear Motion Assembly

Micro Servo Electric Cylinder | Electric Actuator Platform 11 Series

Product Overview

Precision Linear Motion Assembly with mechanical Interface Joint bearing, speed Grade 7 and cable Diameter 2.3 mm.

Key Specifications

PARAMETER	VALUE	UNIT
Mechanical Interface	Joint bearing	
Speed Grade	7	
Cable Diameter	2.3	mm
Cable Length	200	mm
Electrical Interface	LVTTL serial interface	
Force Sensor Resolution	1	N
Full-load Speed	21	mm/s
Maximum Push/Pull Force	42	N
Maximum Self-locking Force	50	N

Technical Specifications

PARAMETER	SPECIFICATION	UNIT	NOTES
PERFORMANCE			
Full-load Speed	21	mm/s	Speed Class: 07
Maximum Push/Pull Force	42	N	Speed Class: 07
Maximum Self-locking Force	50	N	Speed Class: 07
Repeat Positioning Accuracy	± 0.03	mm	
Stall Push/Pull Force	60	N	Speed Class: 07
ELECTRICAL			
No-load Current	0.53	A	Speed Class: 07
Operating Voltage	8 ± 10%	V	
Peak Current	2	A	
Static Current	0.05	A	
Electrical Interface	LVTTL serial interface		Model Code Token: D

Technical Specifications

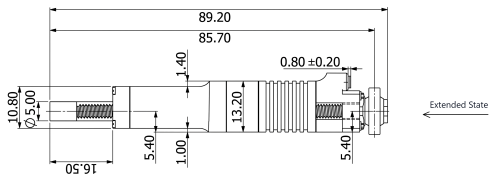
PARAMETER	SPECIFICATION	UNIT	NOTES
MECHANICAL			
Cable Diameter	2.3	mm	
Cable Length	200	mm	
Stroke	16	mm	
Weight	33	g	
INTERFACES			
Mechanical Interface	Joint bearing		Model Code Token: 4
ENVIRONMENTAL			
Operating Temperature	-10 to +60	°C	
ADDITIONAL SPECIFICATIONS			
Speed Grade	7		Model Code Token: 07
Force Sensor Resolution	1	N	
No-load Speed	50	mm/s	Speed Class: 07
Protection Rating	IP40		

Dimensional & Integration Overview

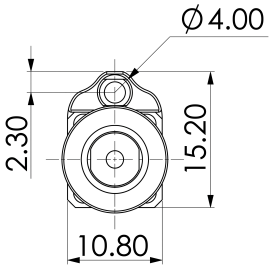
Mechanical Overview

PARAMETER	VALUE	UNIT
Cable Diameter	2.3	mm
Cable Length	200	mm
Stroke	16	mm
Weight	33	g

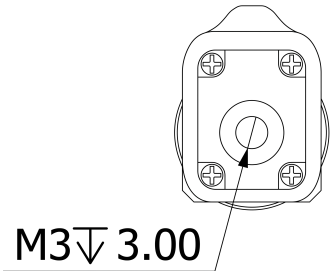
Dimensional Drawings



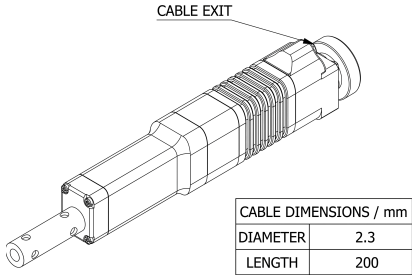
Mechanical View 1



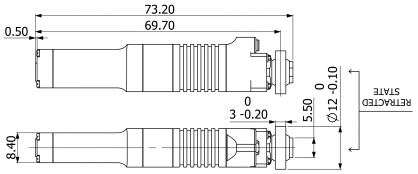
Mechanical View 2



Mechanical View 3



Mechanical View 4



Mechanical View 5

2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 1	Overall length in extended state	Overall length = 89.20 mm
	Body length in extended state	Body length = 85.70 mm
	Shoulder step dimension	Shoulder step = 1.40 mm
	Left shaft diameter	Diameter = Φ5.00 mm
	State label	Extended state
	Left end outside height	Outside height = 10.80 mm
	Main body outside height or diameter	Main body outside height/diameter = 13.20 mm
	Left mounting end local height	Local height = 5.40 mm
	Lower step dimension	Lower step = 1.00 mm
	Left shaft protrusion length	Shaft protrusion length = 16.50 mm
Mechanical View 2	Top joint hole diameter	Diameter 4.00 mm
	Left local height dimension	2.30 mm
	Right overall height dimension	15.20 mm
	Bottom mounting width	10.80 mm
Mechanical View 3	Mounting threaded hole size and depth	M3 thread, depth 3.00 mm

2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 5	Retracted overall length	73.20 mm
	Retracted body length	69.70 mm
	End step offset	0.50 mm
	Joint bearing interface diameter with tolerance	Diameter 12 mm, tolerance +0/-0.10 mm
	State label	Retracted state
	Rod end height	8.40 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.