

PRODUCT DATASHEET

ES-LA-C00-S014-V001

Precision Linear Motion Assembly

Micro Servo Electric Cylinder | Electric Actuator Platform 14 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	4	mm/s
Maximum Push/Pull Force	105	N
Maximum Self-locking Force	150	N
No-load Current	0.2	A

Technical Specifications

PARAMETER	SPECIFICATION	UNIT	NOTES
PERFORMANCE			
Full-load Speed	4	mm/s	Speed Class: 02
Maximum Push/Pull Force	105	N	Speed Class: 02
Maximum Self-locking Force	150	N	Speed Class: 02
Repeat Positioning Accuracy	± 0.02	mm	
Stall Push/Pull Force	150	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		Model Code Token: D

Technical Specifications

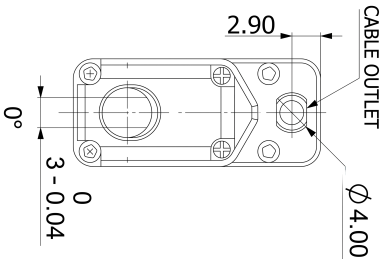
PARAMETER	SPECIFICATION	UNIT	NOTES
MECHANICAL			
Cable Diameter	2.3	mm	
Cable Length	200	mm	
Stroke	10	mm	
Weight	24	g	
INTERFACES			
Mechanical Interface	Octagonal interface		Model Code Token: 3
ENVIRONMENTAL			
Operating Temperature	-10 to +60	°C	
ADDITIONAL SPECIFICATIONS			
Speed Grade	2		Model Code Token: 02
No-load Speed	13	mm/s	Speed Class: 02
Protection Rating	IP40		

Dimensional & Integration Overview

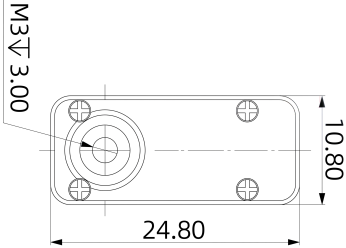
Mechanical Overview

PARAMETER	VALUE	UNIT
Cable Diameter	2.3	mm
Cable Length	200	mm
Stroke	10	mm
Weight	24	g

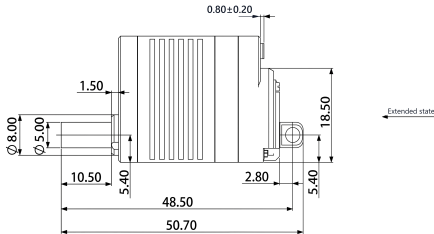
Dimensional Drawings



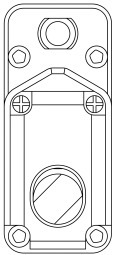
Mechanical View 1



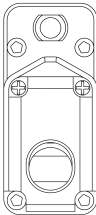
Mechanical View 2



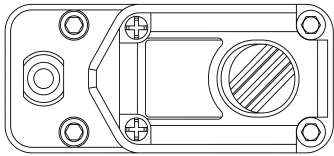
Mechanical View 3



45°
Mechanical View 4



90°
Mechanical View 5



Mechanical View 6

135°

2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 1	Mounting or cable outlet related vertical dimension	2.90
	Mounting interface dimension with tolerance	3 mm, +0/-0.04
	Interface orientation angle	0 degrees
	Cable outlet diameter	Diameter 4.00
Mechanical View 2	Mounting screw hole callout	M3 screw callout with 3.00 mm associated depth/countersink indication
	Upper mounting width dimension	10.80 mm
	Overall height	24.80 mm
Mechanical View 3	Rear end protrusion tolerance	0.80 ± 0.20
	Front shoulder thickness	1.50
	Extended state label	Extended state
	Shaft outer diameter	Diameter 8.00
	Shaft inner section diameter	Diameter 5.00
	Front shaft protrusion length	10.50
	Left-side local vertical offset	5.40
	Body-to-right feature length	48.50
	Overall length	50.70
Mechanical View 4	Octagonal interface mounting orientation angle	45 degrees
Mechanical View 5	Octagonal interface orientation angle	90 degrees

2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 6	Octagonal interface orientation label	135

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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.