PRODUCT DATASHEET

ES-LA-C00-S014-V003

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 10 and cable Diameter 2.3 mm.

Key Specifications

PARAMETER	VALUE	UNIT
Mechanical Interface	Octagonal interface	
Speed Grade	10	
Cable Diameter	2.3	mm
Cable Length	200	mm
Electrical Interface	LVTTL serial interface	
Full-load Speed	39	mm/s
Maximum Push/Pull Force	31.5	N
Maximum Self-locking Force	30	N
No-load Current	0.5	A

Technical Specifications

PARAMETER	SPECIFICATION	UNIT	NOTES
PERFORMANCE			
Full-load Speed	39	mm/s	Speed Class: 10
Maximum Push/Pull Force	31.5	N	
Maximum Self-locking Force	30	N	Speed Class: 10
Repeat Positioning Accuracy	± 0.02	mm	
Stall Push/Pull Force	45	N	Speed Class: 10
ELECTRICAL			
No-load Current	0.5	A	Speed Class: 10
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

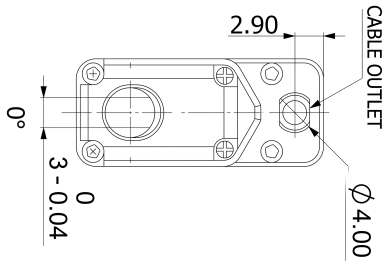
PARAMETER	SPECIFICATION	UNIT	NOTES
MECHANICAL			
Cable Diameter	2.3	mm	
Cable Length	200	mm	
Stroke	10	mm	
Weight	24	g	
INTERFACES			
Mechanical Interface	Octagonal interface		Model Code Token: 3
ENVIRONMENTAL			
Operating Temperature	-10 to +60	°C	
ADDITIONAL SPECIFICATIONS			
Speed Grade	10		Model Code Token: 10
No-load Speed	62	mm/s	Speed Class: 10
Protection Rating	IP40		

Dimensional & Integration Overview

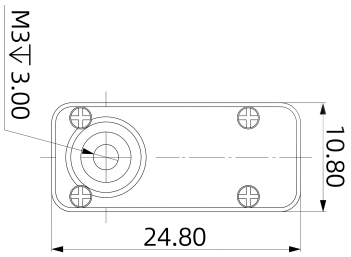
Mechanical Overview

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

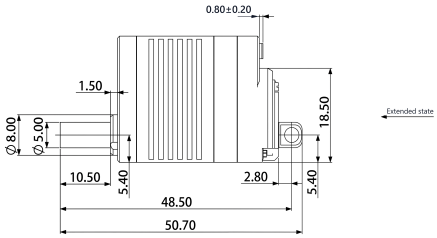
Dimensional Drawings



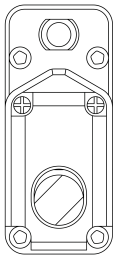
Mechanical View 1



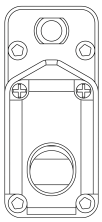
Mechanical View 2



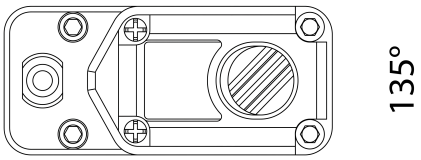
Mechanical View 3



Mechanical View 4



Mechanical View 5



Mechanical View 6

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.