PRODUCT DATASHEET

ES-LA-C00-S015-V001

Precision Linear Motion Assembly

Micro Servo Electric Cylinder | Electric Actuator Platform 15 Series

Product Overview

Precision Linear Motion Assembly with mechanical Interface Standard interface, speed Grade 2 and cable Diameter 2.3 mm.

Key Specifications

PARAMETER	VALUE	UNIT
Mechanical Interface	Standard interface	
Speed Grade	2	
Cable Diameter	2.3	mm
Cable Length	200	mm
Electrical Interface	LVTTL serial interface	
Full-load Speed	6	mm/s
Maximum Push/Pull Force	80	N
Maximum Self-locking Force	110	N
No-load Current	0.3	A

Technical Specifications

PARAMETER	SPECIFICATION	UNIT	NOTES
PERFORMANCE			
Full-load Speed	6	mm/s	Speed Class: 02
Maximum Push/Pull Force	80	N	Speed Class: 02
Maximum Self-locking Force	110	N	Speed Class: 02
Repeat Positioning Accuracy	± 0.06	mm	
Stall Push/Pull Force	110	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

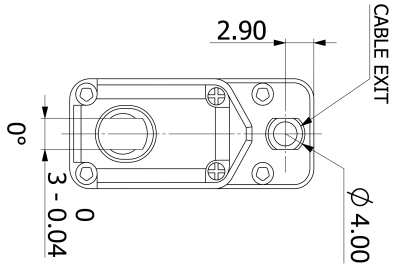
PARAMETER	SPECIFICATION	UNIT	NOTES
MECHANICAL			
Cable Diameter	2.3	mm	
Cable Length	200	mm	
Stroke	30	mm	
Weight	35	g	
INTERFACES			
Mechanical Interface	Standard interface		Model Code Token: 1
ENVIRONMENTAL			
Operating Temperature	-10 to +60	°C	
ADDITIONAL SPECIFICATIONS			
Speed Grade	2		Model Code Token: 02
No-load Speed	13	mm/s	Speed Class: 02
Protection Rating	IP40		

Dimensional & Integration Overview

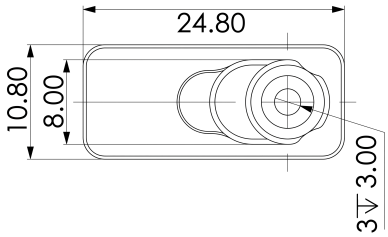
Mechanical Overview

PARAMETER	VALUE	UNIT
Cable Diameter	2.3	mm
Cable Length	200	mm
Stroke	30	mm
Weight	35	g

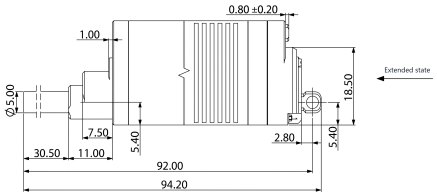
Dimensional Drawings



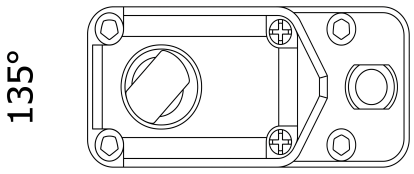
Mechanical View 1



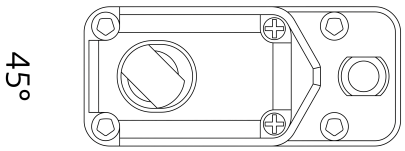
Mechanical View 2



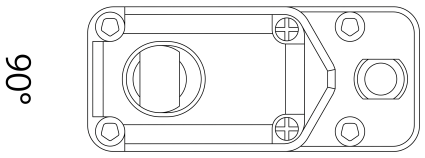
Mechanical View 3



Mechanical View 4



Mechanical View 5



Mechanical View 6

2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 1	Mounting hole center spacing	2.90
	Interface angular position	0 degrees
	Dimension 3 tolerance	3 +0/-0.04
	Hole diameter	Diameter 4.00
Mechanical View 2	Interface outer height	24.80 mm
	Interface outer width	10.80 mm
	Interface inner width	8.00 mm
	Local feature dimension	3.00 mm
Mechanical View 3	End protrusion tolerance	0.80 ±0.20
	Left end shoulder axial offset	1.00
	State label	Extended state
	Left end shaft diameter	Diameter 5.00
	Left end stepped section length	7.50
	Main body lower vertical dimension	5.40
	Left end shaft section length	30.50
	Left end second shaft section length	11.00
	Extended state functional length	92.00
	Extended state overall length	94.20

2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 5	Octagonal interface orientation angle	45 degrees
Mechanical View 6		90 degrees

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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.