

PRODUCT DATASHEET

ES-LA-C00-S018-V001

Precision Linear Motion Assembly

Micro Servo Electric Cylinder | Electric Actuator Platform 18 Series

Product Overview

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

Key Specifications

PARAMETER	VALUE	UNIT
Mechanical Interface	Joint bearing	
Speed Grade	2	
Cable Diameter	2.3	mm
Cable Length	200	mm
Electrical Interface	LVTTL serial interface	
Force Sensor Detection Range	-100 to +100	N
Force Sensor Resolution	1	N
Full-load Speed	6	mm/s
Ingress Protection Rating	IP40	

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	$8 \pm 10\%$	V	
Peak Current	2	A	
Static Current	0.05	A	
Electrical Interface	LVTTTL serial interface		Model Code Token: D
MECHANICAL			
Cable Diameter	2.3	mm	

Technical Specifications

PARAMETER	SPECIFICATION	UNIT	NOTES
MECHANICAL			
Cable Length	200	mm	
Stroke	30	mm	
Weight	44	g	
INTERFACES			
Mechanical Interface	Joint bearing		Model Code Token: 4
ENVIRONMENTAL			
Operating Temperature	-10 to +60	°C	
Ingress Protection Rating	IP40		
ADDITIONAL SPECIFICATIONS			
Speed Grade	2		Model Code Token: 02
Force Sensor Resolution	1	N	
No-load Speed	13	mm/s	Speed Class: 02
Force Sensor Detection Range	-100 to +100	N	

2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 2	Mounting end outer width	Width 10.80 mm
	Mounting hole center distance	Hole center spacing 8.00 mm
	Mounting end overall height	Overall height 24.80 mm
	Threaded hole specification and depth	M3 threaded hole, depth 3.00 mm
Mechanical View 3	Left shoulder axial offset	1.00 mm
	Right shoulder axial offset	2.00 mm
	Extended position label	Extended position
	Left shaft diameter	Diameter 5.00 mm
	Step or groove axial length	7.50 mm
	Left interface vertical height	5.40 mm
	Left rod protrusion length	30.50 mm
	Left interface segment length	11.00 mm
	Extended position main length	96.00 mm
	Extended position overall length	99.50 mm

2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 5	Retracted state label	Retracted State
	Right-end axial step length with tolerance	3 mm with tolerance +0/-0.20 mm
	Left-side outer vertical dimension	11.40 mm
	Left-side inner vertical dimension	8.00 mm
	Left-end small step axial length	0.50 mm
	Right-end shaft diameter with tolerance	Diameter 12 mm with tolerance +0/-0.10 mm
	Right-end local vertical dimension	5.50 mm
	Retracted-state body length	66.00 mm
	Retracted-state overall length	69.50 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.