PRODUCT DATASHEET

ES-LA-C00-S016-V002

Precision Linear Motion Assembly

Micro Servo Electric Cylinder | Electric Actuator Platform 16 Series

Product Overview

Precision Linear Motion Assembly with mechanical Interface Joint bearing, speed Grade 3 and cable Diameter 2.3 mm.

Key Specifications

PARAMETER	VALUE	UNIT
Mechanical Interface	Joint bearing	
Speed Grade	3	
Cable Diameter	2.3	mm
Cable Length	200	mm
Electrical Interface	LVTTL serial interface	
Force Sensor Resolution	1	N
Full-load Speed	12	mm/s
Maximum Push/Pull Force	56	N
Maximum Self-locking Force	150	N

Technical Specifications

PARAMETER	SPECIFICATION	UNIT	NOTES
PERFORMANCE			
Full-load Speed	12	mm/s	Speed Class: 03
Maximum Push/Pull Force	56	N	Speed Class: 03
Maximum Self-locking Force	150	N	Speed Class: 03
Repeat Positioning Accuracy	± 0.02	mm	
Stall Push/Pull Force	80	N	Speed Class: 03
ELECTRICAL			
No-load Current	0.63	A	Speed Class: 03
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

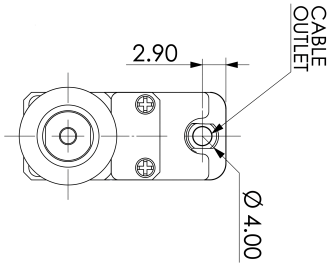
PARAMETER	SPECIFICATION	UNIT	NOTES
MECHANICAL			
Cable Diameter	2.3	mm	
Cable Length	200	mm	
Stroke	10	mm	
Weight	32	g	
INTERFACES			
Mechanical Interface	Joint bearing		Model Code Token: 4
ENVIRONMENTAL			
Operating Temperature	-10 to +60	°C	
ADDITIONAL SPECIFICATIONS			
Speed Grade	3		Model Code Token: 03
Force Sensor Resolution	1	N	
No-load Speed	26	mm/s	Speed Class: 03
Protection Rating	IP40		

Dimensional & Integration Overview

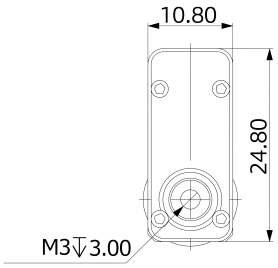
Mechanical Overview

PARAMETER	VALUE	UNIT
Cable Diameter	2.3	mm
Cable Length	200	mm
Stroke	10	mm
Weight	32	g

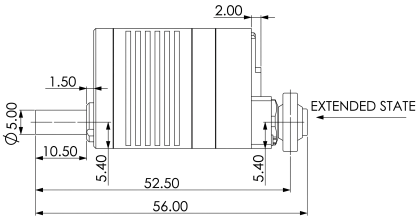
Dimensional Drawings



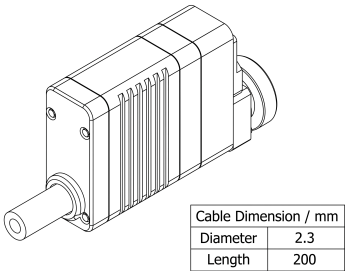
Mechanical View 1



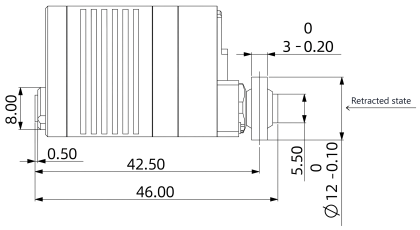
Mechanical View 2



Mechanical View 3



Mechanical View 4



Mechanical View 5

2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 2	Mounting face width	Width 10.80 mm
	Mounting face height	Height 24.80 mm
	Mounting threaded hole size and depth	M3 threaded hole, depth 3.00 mm
Mechanical View 3	Right end clearance or step length	2.00 mm
	Left end shoulder length	1.50 mm
	Extended state label	Extended state
	Shaft diameter	Diameter 5.00 mm
	Left shaft protrusion length	10.50 mm
	Left interface vertical height	5.40 mm
	Right interface vertical height	
	Main body length	52.50 mm
	Overall length	56.00 mm

2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 5	Retracted-state end axial dimension	3 mm with upper tolerance +0 and lower tolerance -0.20
	State label	Retracted state
	Left-end mounting height	8.00 mm
	Left-end step offset dimension	0.50 mm
	Right-end shaft shoulder height	5.50 mm
	Right-end shaft diameter and tolerance	Diameter 12 mm with upper tolerance +0 and lower tolerance -0.10
	Body length	42.50 mm
	Overall length	46.00 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.