

PRODUCT DATASHEET

ES-LA-C00-S001-V001

Precision Linear Motion Assembly

Micro Servo Electric Cylinder | Electric Actuator Series

Product Overview

Precision Linear Motion Assembly with communication Interface RS485, mechanical Interface Flange interface and cable
Diameter 3 mm.

Key Specifications

PARAMETER	VALUE	UNIT
Communication Interface	RS485	
Mechanical Interface	Flange interface	
Cable Diameter	3	mm
Cable Length	400	mm
Full-load Speed	2	mm/s
Ingress Protection Rating	IP40	
Maximum Push/Pull Force	250	N
Maximum Self-locking Force	150	N
No-load Current	0.2	A

Technical Specifications

PARAMETER	SPECIFICATION	UNIT
PERFORMANCE		
Full-load Speed	2	mm/s
Maximum Push/Pull Force	250	N
Maximum Self-locking Force	150	N
Repeat Positioning Accuracy	± 0.002	mm
Stall Push/Pull Force	300	N
ELECTRICAL		
Communication Interface	RS485	
No-load Current	0.2	A
Peak Current	1.4	A
Static Current	0.055	A
Operating Voltage	$12 \pm 10\%$	V



Technical Specifications

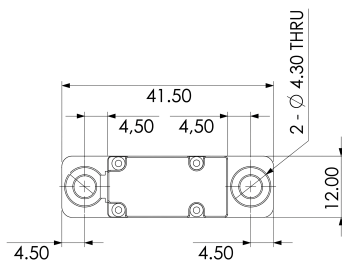
PARAMETER	SPECIFICATION	UNIT
MECHANICAL		
Cable Diameter	3	mm
Cable Length	400	mm
Stroke	5	mm
Weight	170	g
INTERFACES		
Mechanical Interface	Flange interface	
ENVIRONMENTAL		
Operating Temperature	-10 to +60	°C
SAFETY		
Ingress Protection Rating	IP40	
ADDITIONAL SPECIFICATIONS		
No-load Speed	2.4	mm/s
Protection Rating	IP40	

Dimensional & Integration Overview

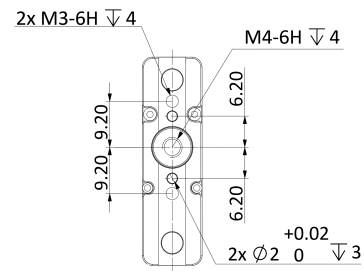
Mechanical Overview

PARAMETER	VALUE	UNIT
Cable Diameter	3	mm
Cable Length	400	mm
Stroke	5	mm
Weight	170	g

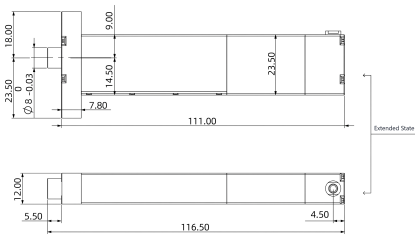
Dimensional Drawings



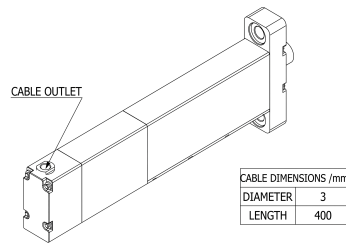
Mechanical View 1



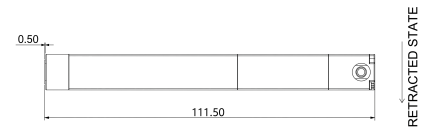
Mechanical View 2



Mechanical View 3



Mechanical View 4



Mechanical View 5

CABLE DIMENSIONS (mm)	
DIAMETER	3
LENGTH	400

2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 1	Through hole diameter and quantity	2 through holes, diameter 4.30 mm
	Mounting hole center distance	41.50 mm center-to-center distance
	Left upper mounting offset	4.50 mm offset
	Right upper mounting offset	
	Vertical envelope dimension	12.00 mm vertical dimension
	Left lower mounting offset	4.50 mm offset
	Right lower mounting offset	
Mechanical View 2	2x M3-6H threaded holes depth	2x M3-6H threaded holes, depth 4
	M4-6H threaded hole depth	M4-6H threaded hole, depth 4
	Upper mounting hole offset	6.20
	Upper hole spacing	9.20
	Middle hole spacing	
	Lower mounting hole offset	6.20
	2x diameter 2 holes tolerance and depth	2x Ø2 holes, tolerance +0.02/0, depth 3

2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 3	Upper half height in top view	9.00 mm
	Left mounting end upper height	18.00 mm
	Body height	23.50 mm
	Lower half height in top view	14.50 mm
	Shaft diameter with tolerance	Diameter 8.00 mm, +0.00/-0.03 mm
	Left mounting interface total height	23.50 mm
	Flange thickness or step length	7.80 mm
	Extended-state main body length	111.00 mm
	State label	Extended State
	Lower view left-end height	12.00 mm
	Right end mounting offset	4.50 mm
	Left end mounting offset	5.50 mm
	Extended-state overall length	116.50 mm
Mechanical View 5	Retracted state end clearance	End clearance 0.50 mm in retracted state view
	State label	Retracted state
	Retracted state overall length	Overall length in retracted state 111.50 mm

[View Product Online](#)
[Request Engineering Data](#)
[Request a Quote](#)

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.