MiSUMi C-VALUE Single Axis Actuators LS10 - Ball Screw

LS

Compared to Similar Products 25% Off Max.

Similar Component Page P.455~P.458

Points to compare against Similar Products | For Positioning Repeatability and Allowable Static Moment, C-VALUE components differ from their similar products. P.455~P.458

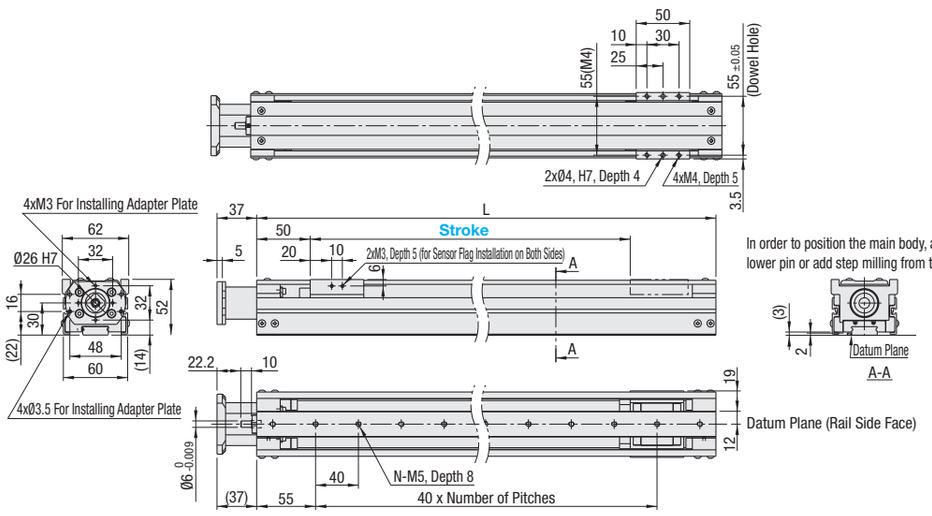
Product Features: This Single Axis Actuator achieves medium accuracy transfer and positioning at economical prices.



RoHS

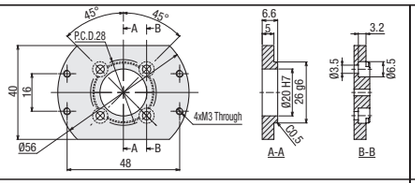
A Accessory	M Material	S Surface Treatment	Quantity	Note
Adapter Plate	Aluminum Alloy	Black Anodize	1	-
Hex Socket Head Cap Screw M3x8	Steel	Black Oxide	4	For fixing Adapter Plate

No accessory is included with "No Adapter Plate" Type.
Adapter Plate is not installed when shipped.

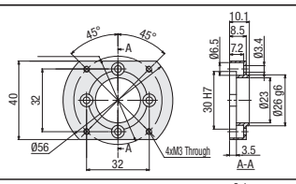


In order to position the main body, apply a 2mm or lower pin or add step milling from the rail side face.

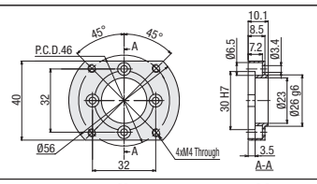
A25 Servo □25



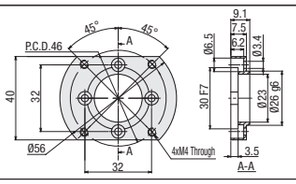
A38 Servo □38



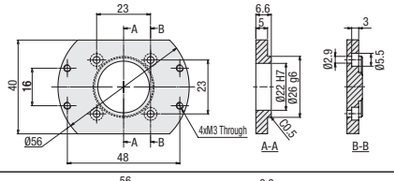
A40 Servo □40



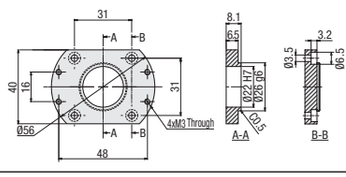
E40 Servo □40



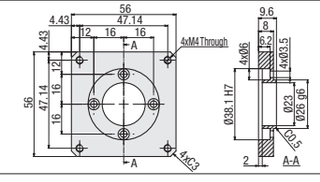
T28 Stepping □28



T42 Stepping □42



T56.4 Stepping □56.4



Part Number	Lead	Stroke (mm)	Motor Adapter Plate	L	Mass(kg)	Number of Holes (N)	Number of Pitches	Base Mounting
LS10	02 04	60	(Servo Motor) A25 A38 A40 E40 (Stepping Motor) T28 T42 T56.4 (No Adapter Plate) N	190	1.20	3	2	From the Bottom of Base Rail (Tapped Hole)
		100		230	1.33	4	3	
		140		270	1.47	5	4	
		220		350	1.73	7	6	
		300		430	2.00	9	8	

Accuracy Standards

Accuracy Standards	Standard Value
Positioning Repeatability (mm)	±0.02
Running Parallelism (mm)	±0.02
Starting Torque (N/cm)	2

The standard values are measured after the rail is mounted.
(It is not the value measured before the rails are fastened with screws.)

Stepping Motor Application Table

Part Number	Flange Size	Manufacturer	Product Number	Type	Recommended Coupling
T28	□28	Oriental Motor Motor	CSK22	2-phase	SCXW21 (P.1108) SCPW21 (P.1108) CPDW19 (P.1103)
			CSK52	5-phase	
			ASC3	α- Step	
T42	□42		PK24	2-phase	
			CSK24		
			RK54	5-phase	
			RKS54/PK54		
			AS46, ASC46, AR46	α- Step	
T56.4	□56.4	NEMA standards	NEMA23	-	CPDW19 (P.1103)

NEMA standards is a set of standards stipulated by National Electrical Manufacturers Association of United States.

Servo Motor Application Table

Part Number	Flange Size	Manufacturer	Product Number	Wattage	Recommended Coupling
A25	□25	Yasukawa Electric Corporation	SGMMJ-A1	10W	SCXW21 (P.1108) SCPW21 (P.1108) CPDW19 (P.1103)
			SGMMJ-A2	20W	
			SGMMJ-A3	30W	
		Mitsubishi Electric Corporation	HG-AK0136	10W	
			HG-AK0236	20W	
			HG-AK0336	30W	
A38	□38	Panasonic	MSMD5A	50W	
			MSME5A		
			MSMD01	100W	
			MSME01		
A40	□40	Yasukawa Electric Corporation	SGMJV-A5	50W	
			SGMAH-A5		
			SGMAS-A5		
		Mitsubishi Electric Corporation	HG-MR053		
			HG-KR053		
			HF-KP053		
		Sanyo Denki Co., Ltd.	Q1AA04003D	30W	
			Q1AA04005D	50W	
		Omron Corporation	R88M-K05030		
		Keyence Corporation	MV-M05		
			SV-M005		
E40	□40	SIEMENS	1FK7011-5	50W	CPDW19 (P.1103)
			1FK7015-5	100W	

Product numbers and specifications of motors are subject to change. Please check the manufactures' information.
Applicable motors and couplings are not limited to the above listed products. Please confirm each mounting dimension.

Ordering Example: Part Number LS1002 - Stroke 300 - Motor Adapter Plate A25

Unit Price						
Part Number	Stroke (mm)					Motor Adapter Plate
	60	100	140	220	300	
LS1002						No Adapter Plate
						Servo / Stepping
LS1004						No Adapter Plate
						Servo / Stepping

Alterations: Part Number LS1002 - Stroke 300 - Motor Adapter Plate A25 - (Code) MP3

Photo Sensor Types - Set Part Specification

Code	Sensor Type	Sensor	Sensor Type/Qty.	Sensor Flag Mounting		Sensor Mounting	Sensor Bracket Mounting			Unit Price			Note
			Configurable to turn ON or OFF when Light is blocked.	Sensor Flag	Sensor Flag Mounting Screw	Sensor Mounting Screw	Bracket	Bracket Mounting Screw	Bracket Mounting Nut	Sensor Qty. 1 pc.	2 pcs.	3 pcs.	
MP□	Photomicro Sensor	FPMY45	□pc(s).	Dedicated	Hex Socket Head Cap Screw M3x6, 2 pcs.	Hex Socket Head Cap Screw M3x6, 2 pcs.	Dedicated	Hex Socket Head Cap Screw M3x6, 2 pcs.	Hex Nut 2 pcs.				Cable 1m

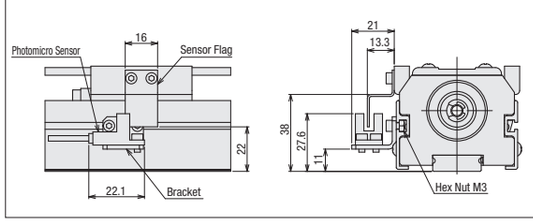
"□" specifies the sensor qty. (1~3). For 100 or less strokes, select 1 or 2.

Proximity Sensor Types - Set Part Specification

Code	Sensor Type	Sensor	Sensor Type/Qty.		Sensor Flag Mounting		Sensor Mounting		Unit Price			Note
			ON when near	ON when away	Sensor Flag	Sensor Flag Mounting Screw	Sensor Mounting Screw	Sensor Mounting Nut	Sensor Qty. 1 pc.	2 pcs.	3 pcs.	
PR□	Proximity Sensor - Two-Wire Type	EX4-T12	□pc(s).	-	Dedicated	Hex Socket Head Cap Screw M3x6, 2 pcs.	Pan Head Screw M3x10	Hex Nut 1 pc.				Cable 1m
PRO□	Proximity Sensor - Three-Wire Type with N.O. Output	EMX4-T12	□pc(s).	-								
PRC□	Proximity Sensor - Three-Wire Type with N.C. Output	EMX4-T12C	-	□pc(s).								
PRW1	Proximity Sensor - Three-Wire, Combination Type	-	1 pc.	1 pc.					-		-	
PRW2			1 pc.	2 pcs.						-		
PRW3			2 pcs.	1 pc.					-			

"□" specifies the sensor qty. (1~3). For 100 or less strokes, select 1 or 2.

Photo Sensor Installation Drawing



Proximity Sensor Installation Drawing

