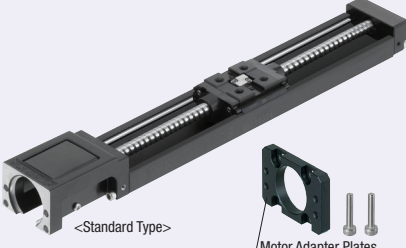
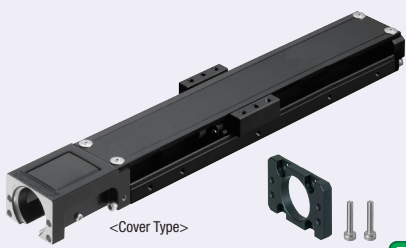



Single Axis Actuator

Single Axis Actuators SX15 Standard / Cover Type





<Standard Type>



Motor Adapter Plates

<Cover Type>



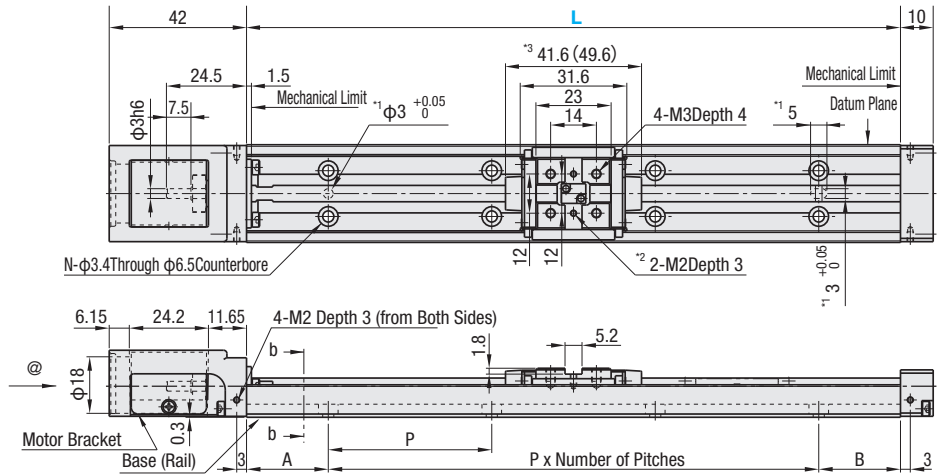
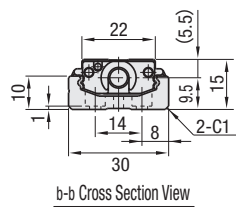
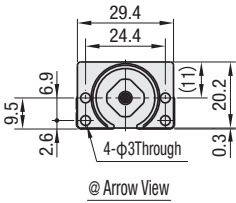
Specifications	
SX15	
Standard / Cover	
Screw Shaft Dia. (mm)	5
Lead (mm)	2
Accuracy	High Grade • Precision Grade
Accessories	
① Motor Adapter Plate M A5052 S Black Anodized ② Adapter Plate Screw 2 pcs. M SUSXM7	

RoHS
For Material table, see PA-015

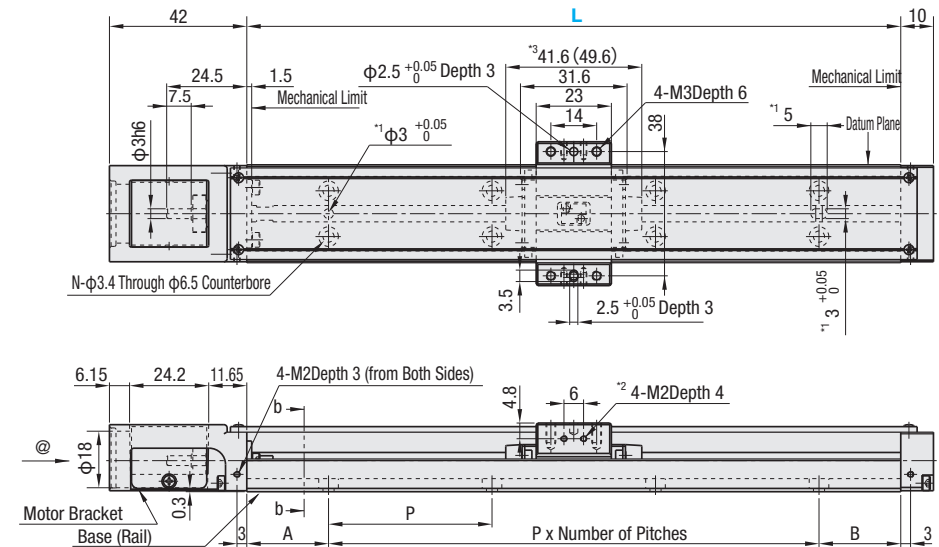
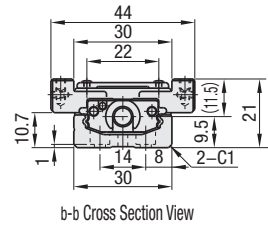
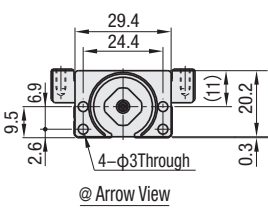
Part Number	Standard Grease		Low Dust Generation Grease		Lubrication Unit MX-equipped (Standard Grease)	
	High Grade	Precision Grade	High Grade	Precision Grade	High Grade	Precision Grade
Lead 2	SX1502 (C)	SX1502 (C) P	SX1502 (C) G	SX1502 (C) PG	SX1502 (C) -MX	SX1502 (C) P-MX

(C) is for Cover Type.
 Low Dust Generation Grease Information PA-018
Lubrication Unit MX Information PA-004

Standard Type



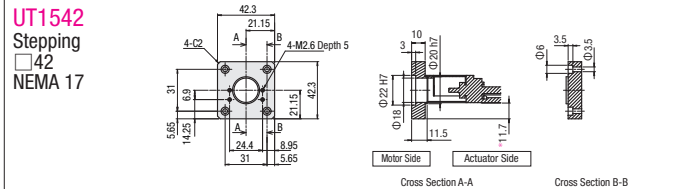
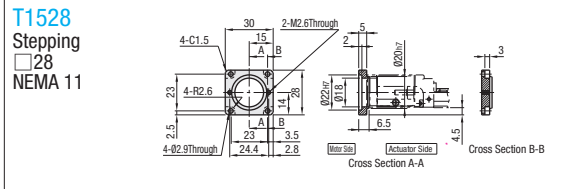
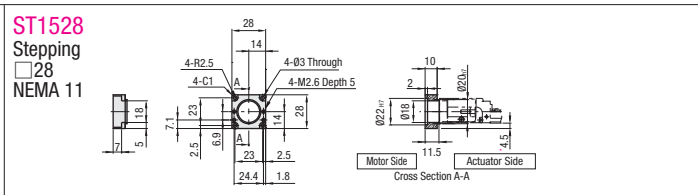
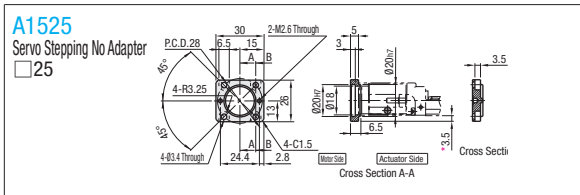
Cover Type



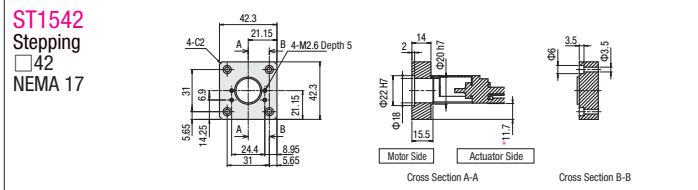
Effective stroke is the value with 2.5mm margin on each side from mechanical limits, i.e., 5mm in total.
Precision specification value is the value achieved after fixing rails. (It is not a value before tightening the rail screws.) For values, see PA-017
*1: Dowel Holes for Base Positioning.
*2: Tapped Holes for Sensor Flag Mount.
*3: Value in () is for Lubrication Unit MX-equipped Type.

Part Number	Block Qty.	Motor Adapter Plates	Base Length (L)	* Effective Stroke		Total Mass (kg)		Mounting Hole Dimensions				
				B1	MX-equipped (B1)	Standard	Cover	A	P	B	Number of Pitches	Number of Holes (N)
(Standard Grease) SX1502 (C) (Low Dust Generation Grease) SX1502 (C) G (Lubrication Unit MX-equipped, Standard Grease) SX1502 (C) -MX	(1pcs.) B1	(Servo Motor) A1525	75	26.9	—	0.13	0.18	12.5	50	12.5	1	4
		(Stepping Motor) T1528	100	51.9	43.9	0.17	0.22	25				
		ST1528	125	76.9	68.9	0.22	0.28	12.5				
		UT1542	150	101.9	93.9	0.29	0.35	25				
		ST1542	175	126.9	118.9	0.35	0.41	12.5				
* (No Adapter Plate) N			200	151.9	143.9	0.38	0.45	25	12.5	3	8	

Precision Certificate is enclosed with precision grade products. * Motor adapter plate and mounting screws are not included with No Adapter Plate Type.
Effective stroke is indicated in dimensions with a margin of 2.5mm each from the ends. * (C) is for Cover Type.
* 0.002kg will be added to MX-equipped types.



Note:Note that the Motor Adapter protrudes beyond the rail at * marked area.



Accuracy Standards

Accuracy Standards	High Grade	Precision Grade
Positioning (mm)	0.04	0.02
Backlash (mm)	0.01	0.002
Positioning Repeatability (mm)	±0.004	±0.003
Running Parallelism (mm)	0.02	0.01
Starting Torque (N · cm)	0.8	0.8

For Max. Velocity, see PA-017

For Moment of Inertia, see PA-016



Part Number - Block Qty. - Motor Adapter Plates - Base Length (L)
 SX1502C-MX - B1 - A1525 - 100

Servo Motor Application Table

Part Number	Flange Size	Manufacturer	Wattage
A1525	<input type="checkbox"/> 25	YASKAWA/ Mitsubishi Electric Corporation	10W/20W

Stepping Motor Application Table

Part Number	Flange Size	Manufacturer	Type
T1528	<input type="checkbox"/> 28	Oriental Motor	5-phase / α STEP
ST1528	<input type="checkbox"/> 28	NEMA Standards	-
UT1542	<input type="checkbox"/> 42		
ST1542			

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

For details on supported motor types, see PA-041

Part Number	Motor Adapter Plate	Block Qty.	Lead
SX1502-B1-□	1	5	2
SX1502C-B1-□			



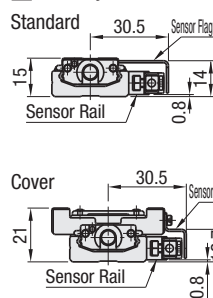
Part Number - Block Qty. - Motor Adapter Plates - Base Length (L) - Code
 SX1502 - B1 - A1525 - 100 - XW1

Set of Proximity Sensor (SUNX) - Set Part Specification

SX Part Number	Code (□ is Sensor Qty.) * For L:100, Max. 2 For L:125, Max. 3	Sensor Qty.		Sensor Rail		Sensor (* Qty per Sensor Included)		Sensor Flag									
		GX-F8A (ON when near)	GX-F8B (ON when away)	Rail (1 pcs.)	Mounting Screw (Pitch +1 pc.)	Sensor Mounting Screw (1 pc.)	Sensor Flag (1 pc.)	Sensor Flag Mounting Screw									
SX1502	XA□	□ pcs.	-	Dedicated	Phillips Flat Head Screw M2-4 (2 pcs.)	CBSST3-10	Dedicated	Pan Head Screw M2-3 (1 pcs.)	-								
	XB□	-	□ pcs.					Hex Socket Head Cap Screw M2-4 (2 pcs.)									
SX1502C	FA□	□ pcs.	-					Dedicated	Phillips Flat Head Screw M2-4 (2 pcs.)	CBSST3-10	Dedicated	Pan Head Screw M2-3 (1 pcs.)	-				
	FB□	-	□ pcs.									Hex Socket Head Cap Screw M2-4 (2 pcs.)					
SX1502	XW1	1 pcs.	1 pcs.									Dedicated	Phillips Flat Head Screw M2-4 (2 pcs.)	CBSST3-10	Dedicated	Pan Head Screw M2-3 (1 pcs.)	-
	XW2	1 pcs.	2 pcs.													Hex Socket Head Cap Screw M2-4 (2 pcs.)	
	XW3	2 pcs.	1 pcs.	Hex Socket Head Cap Screw M2-4 (2 pcs.)													
SX1502C	FW1	1 pcs.	1 pcs.	Dedicated	Phillips Flat Head Screw M2-4 (2 pcs.)	CBSST3-10	Dedicated									Pan Head Screw M2-3 (1 pcs.)	-
	FW2	1 pcs.	2 pcs.					Hex Socket Head Cap Screw M2-4 (2 pcs.)									
	FW3	2 pcs.	1 pcs.					Hex Socket Head Cap Screw M2-4 (2 pcs.)									

* Sensors are not sold separately.

Proximity Sensor Installation Drawing



Single Axis Actuator

Single Axis Actuators SX20 Standard / Cover Type

Convenient Sensor Sets are also available P.A-024



Specifications	
SX20	
Standard / Cover	
Screw Shaft Dia. (mm)	6
Lead (mm)	1, 5
Accuracy	High Grade / Precision Grade
Accessories	
① Motor Adapter Plate	
5052 Aluminum Alloy	Black Anodize
② Adapter Plate Screw 4 pcs. Stainless Steel XM7	
⚡ No accessory is included with No Motor Bracket Type.	
Ⓜ For Material table, see P.A-015	

RoHS

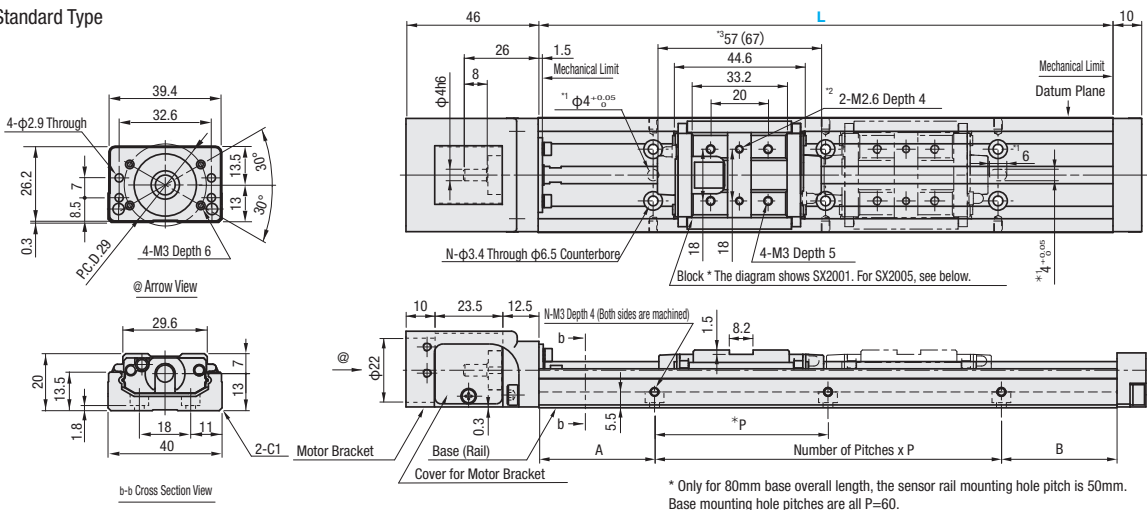
Part Number	Standard Grease		Low Dust Generation Grease		Lubrication Unit MX-equipped (Standard Grease)	
	High Grade	Precision Grade	High Grade	Precision Grade	High Grade	Precision Grade
Lead 1	SX2001 (C)	SX2001 (C) P	SX2001 (C) G	SX2001 (C) PG	SX2001 (C) -MX	SX2001 (C) P-MX
Lead 5	SX2005 (C)	SX2005 (C) P	SX2005 (C) G	SX2005 (C) PG	SX2005 (C) -MX	SX2005 (C) P-MX

(C) is for Cover Type.

Low Dust Generation Grease Information P.A-018

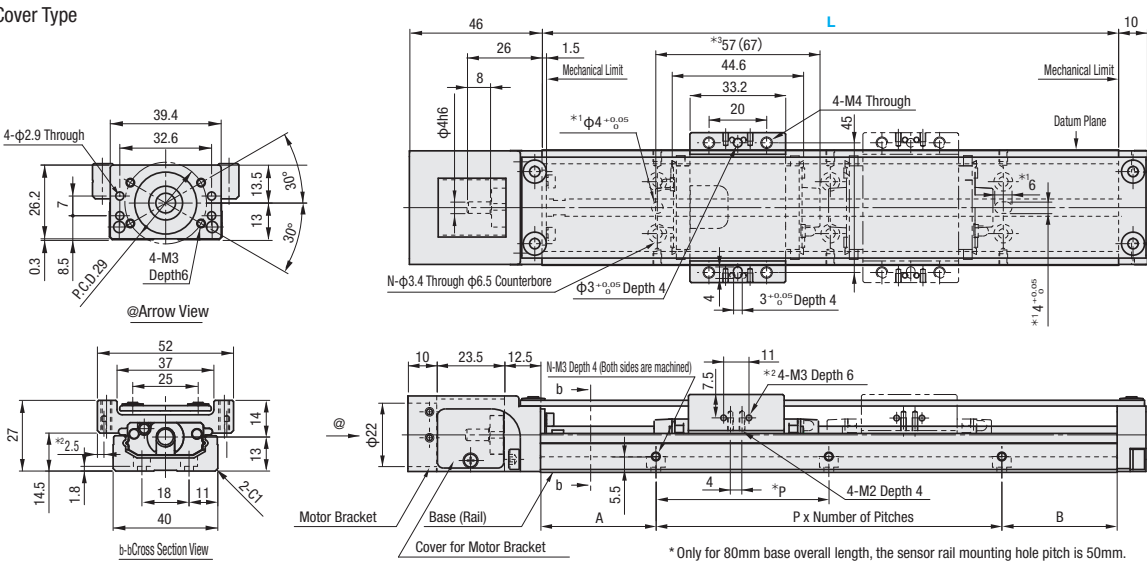
Lubrication Unit MX Information P.A-004

Standard Type



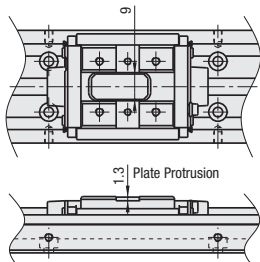
* Only for 80mm base overall length, the sensor rail mounting hole pitch is 50mm. Base mounting hole pitches are all P=60.

Cover Type



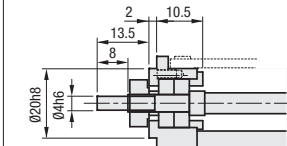
* Only for 80mm base overall length, the sensor rail mounting hole pitch is 50mm. Base mounting hole pitches are all P=60.

Block Details of SX2005 (Standard)



- *1: Dowel Holes for Base Positioning.
- *2: Tapped Holes for Sensor Flag Mount.
- *3: Value in () is for Lubrication Unit MX-equipped Type.

No Motor Bracket Type
* For details of the mounting parts, see PA-023



- Effective stroke is the value with 2.5mm margin on each side from mechanical limits, i.e., 5mm in total.
- For Double Block Type, effective strokes are the values when two blocks contact with each other.

- When using SX20 No Motor Bracket Type as per the folding specifications given on P.A-037 to P.A-040, shaft may get damaged by the belt tension. Refrain from using it.
- For Double Block Type, double-dashed lined blocks are not connected with the ball screw.
- Precision specification value is the value achieved after fixing rails. (It is not a value before tightening the rail screws.) For values, see P.A-017

Part Number		Block Qty.	Motor Adapter Plates	Base Length (L)	*Effective Stroke			Total Mass (kg)				Mounting Hole Dimensions				
High Grade	*Precision Grade				B1	B2	MX-equipped (B1)	B1	B2	B1	B2	A	P	B	Number of Pitches	Number of Holes (N)
(Standard Grease) SX2001 (C) SX2005 (C)	(Standard Grease) SX2001 (C) P SX2005 (C) P	(1 pc.) B1	(Servo Motor) A2025 A2038 A2040 E2040	80 (Lead 1 only)	16.5	-	-	0.40	-	0.51	-	10	10	1	4	
(Low Dust Generation Grease) SX2001 (C) G SX2005 (C) G	(Low Dust Generation Grease) SX2001 (C) PG SX2005 (C) PG		* MX-equipped types are available in B1 only.	(Stepping Motor) T2028 T2042 T2056.4	100	36.5	-	76.5	0.45	-	0.56	-				20
(Lubrication Unit MX-equipped, Standard Grease) SX2001 (C) -MX SX2005 (C) -MX	(Lubrication Unit MX-equipped, Standard Grease) SX2001 (C) P-MX SX2005 (C) P-MX	(2 pcs.) B2		* (No Adapter Plate) N * (No Motor Bracket) F	150	86.5	79.5	126.5	0.58	0.69	0.79	0.81	0.97	15	15	2
				200	136.5	129.5	176.5	0.70	0.79	0.81	0.97	40	40	3	8	
				250 (Lead 5 only)	186.5	129.5	176.5	0.83	0.92	0.94	1.10	35	35	3	8	
				300 (Lead 5 only)	236.5	179.5	226.5	0.96	1.05	1.07	1.23	30	30	4	10	

- * Precision Certificate is enclosed with precision grade products.
- * Motor adapter plate and mounting screws are not included with No Adapter Plate Type.
- * Effective stroke is indicated in dimensions with a margin of 2.5mm each from the ends.
- * (C) is for Cover Type.
- Ⓜ For Max. Velocity, see PA-017
- Ⓜ For Moment of Inertia, see PA-016
- Ⓜ 0.004kg will be added to MX-equipped types.

■ Servo Motor Application Table

Part Number	Flange Size	Manufacturer	Wattage
A2025	□25	YASKAWA Electric Corporation Mitsubishi Electric Corporation	10W/20W/30W/50W 10W/20W/30W
A2038	□38	Panasonic	30W/50W/100W
E2040	□40	SIEMENS	50W/100W
A2040	□40	YASKAWA Electric Corporation Mitsubishi Electric Corporation OMRON Corporation Keyence Corporation	50W

Ⓜ For details on supported motor types and detailed diagram of Motor Adapter Plates, see PA-023

■ Stepping Motor Application Table

Part Number	Flange Size	Manufacturer	Type
T2028	□28	Oriental Motor	2-phase / 5-phase / α STEP
T2042	□42		
T2056.4	□56.4	NEMA Standards	-

- Ⓜ NEMA standards are a set of standards stipulated by National Electrical Manufacturers Association of United States.
- Ⓜ For details on supported motor types and detailed diagram of Motor Adapter Plates, see PA-023

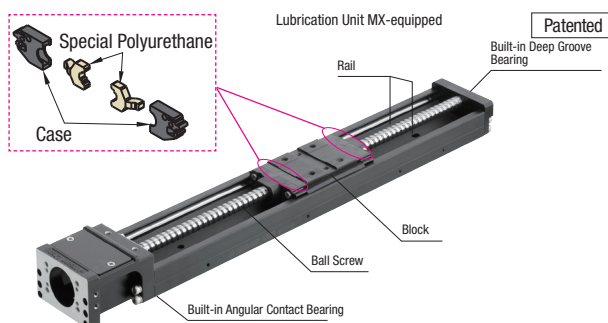
Ordering Example	Part Number	-	Block Qty.	-	Motor Adapter Plates	-	Base Length (L)
	SX2001C	-	B1	-	A2025	-	200

Part Number	Block Qty.	Screw Shaft Dia.	Lead
SX20□□-B1-□	1	6	1
SX20□□-B2-□	2		
SX20□□-B1-F	1		5
SX20□□-B2-F	2		
SX20□□C-B1-□	1	6	1
SX20□□C-B2-□	2		
SX20□□C-B1-F	1		5
SX20□□C-B2-F	2		

Ⓜ SX20□□(C) Series sensor set can be specified as an alteration. For Detailed alteration diagram, see PA-024

■ Accuracy Standards

Accuracy Standards	High Grade	Precision Grade
Positioning (mm)	0.06	0.02
Backlash (mm)	0.01	0.003
Positioning Repeatability (mm)	±0.005	±0.003
Running Parallelism (mm)	0.025	0.01
Starting Torque (N · cm)	1.2	1.2



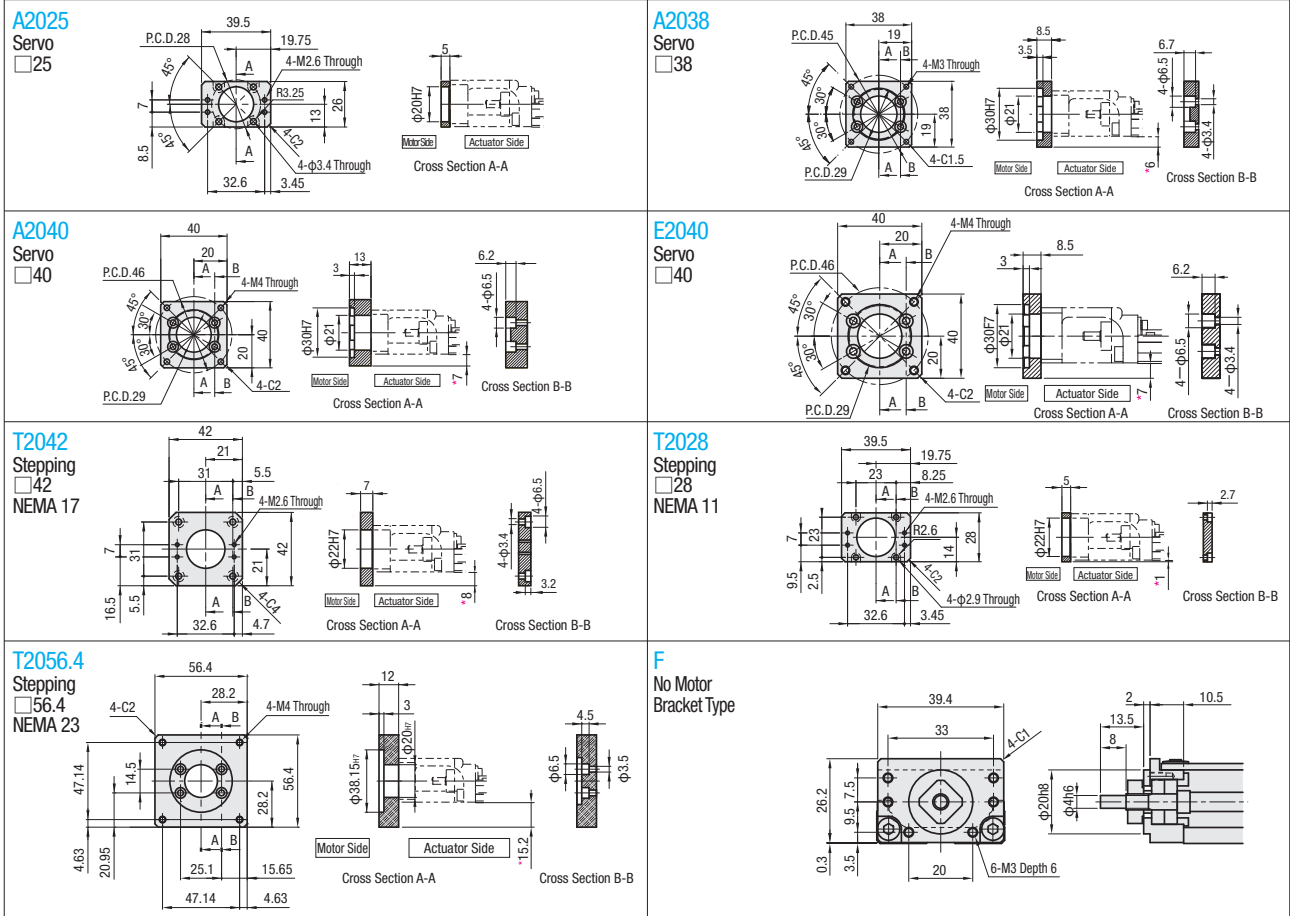
Provides long term maintenance-free operation. For details, see PA-004

Single Axis Actuator

Motor Adapter Plates/Motor Adapter Centering Tools for Single Axis Actuators SX20

Motor Adapter Plate Dimensional Drawing

Note: Note that the Motor Adapter protrudes beyond the rail at * marked area.



Stepping Motor Application Table

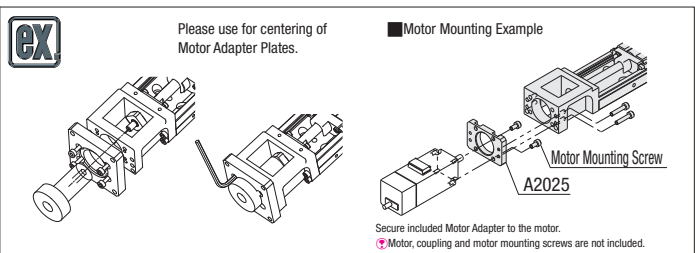
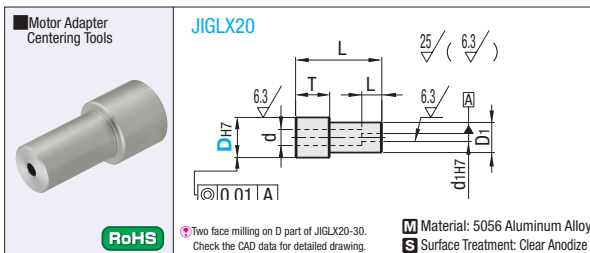
Part Number	Flange Size	Manufacturer	Product Number	Type	Recommended Coupling
T2028	□28	Oriental Motor	PKP22	2-phase	SSCPW16
			PKP52	5-phase	
			ARM2	α STEP	
T2042	□42		PK24*/PKP24	2-phase	
			RKS54*	5-phase	
			PK54	α STEP	
T2056.4	□56.4	NEMA Standards	NEMA23	-	SCPDW19

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

Servo Motor Application Table

Part Number	Flange Size	Manufacturer	Product Number	Wattage	Recommended Coupling	
A2025	□25	YASKAWA Electric Corporation	SGMMV-A1E	10W	SSCPW16	
			SGMMV-A2E	20W		
			SGMMV-A3E	30W		
			SGMAV-A5A	50W		
A2038	□38	Panasonic	HG-AK0136	10W	SCPDT19	
			HG-AK0236	20W		
			HG-AK0336	30W		
			MSMD5A	50W		
A2040	□40	YASKAWA Electric Corporation	SGMJV-A5A	50W	SSCPW16 SCPDT19	
			SGM7A-A5A			
			HG-KR053			
		Mitsubishi Electric Corporation	HG-MR053			
			OMRON Corporation			R88M-K05030
			Keyence Corporation			SV-M005
E2040	□40	SIEMENS	SV2-M005A	50W	SCPDW19	
			1FK7011-5	100W		

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



Part Number	D	Applicable Adapter Plate	d	d1	d1	L	T	l
JIGLX20	20	A2025	8	15	4	43	17	10
	30	A2038/A2040	8	15	4	47	13	

Ordering Example
 Part Number - D
 JIGLX20 - 20

Sensor Sets for Single Axis Actuators SX20 (Alterations)

Proximity Sensor (SUNX) - Set Part Specification

SX Part Number	Code (□ is Sensor Qty.) * For L≤100, Max. 2 For L≥150, Max. 3	Sensor Rail		Sensor Rail		Sensor (* Qty per Sensor Included)		Sensor Flag	
		GX-F8A (ON when near)	GX-F8B (ON when away)	Rail (1 pc.)	Mounting Screw (Pitch +1 pc.)	Sensor Mounting Screw (1 pc.)	Mounting Nut (1 pc.)	Sensor Flag (1 pc.)	Sensor Flag Mounting Screw
SX20□□	XA□	□ pcs.	-	SENAT3□H	SCB3-5	CBSST3-10	LBNR3	Dedicated	Flat Head Machine Screw M2.6-4 (1pc.)
	XB□	-	□ pcs.						
	FA□	□ pcs.	-						
SX20□□C	FB□	□ pcs.	-	SENAT3□H	SCB3-5	CBSST3-10	LBNR3	Dedicated	SCB3-6 (2pcs.)
	FW1	1 pcs.	1 pcs.						
	FW2	1 pcs.	1 pcs.						
SX20□□	XW1	1 pcs.	1 pcs.	SENAT3□H	SCB3-5	CBSST3-10	LBNR3	Dedicated	Flat Head Machine Screw M2.6-4 (1pcs.)
	XW2	1 pcs.	2 pcs.						
	XW3	2 pcs.	1 pcs.						
SX20□□C	FW1	1 pcs.	1 pcs.	SENAT3□H	SCB3-5	CBSST3-10	LBNR3	Dedicated	SCB3-6 (2pcs.)
	FW2	1 pcs.	2 pcs.						
	FW3	2 pcs.	1 pcs.						

Photo Sensor (SUNX) - Set Part Specification

SX Part Number	Code (□ is Sensor Qty.) * For L≤100, Max. 2 For L≥150, Max. 3	Photo Sensor	Sensor Rail		Sensor (* Qty per Sensor Included)				Sensor Flag	
			Rail (1 pc.)	Mounting Screw (Pitch +1 pc.)	Sensor Bracket	Bracket Mounting Screw Nut	Sensor Mounting Screw	Sensor Mounting Washer	Sensor Flag (1 pc.)	Sensor Flag Mounting Screw
SX20□□	SP□	PM-L25	SENAT3□H	SCB3-5	Dedicated	SCB3-5 (2pcs.) LBNR3 (2pcs.)	SCB2-6 (2pcs.)	M2 Small Flat Washer (2 pcs.) M2 Spring Washer (2 pcs.)	Dedicated	Flat Head Machine Screw M2.6-4 (1pcs.) SCB3-6 (2pcs.)
SX20□□C	MP□									

Photo Sensor (OMRON) - Set Part Specification

SX Part Number	Code (□ is Sensor Qty.) * For L≤100, Max. 2 For L≥150, Max. 3	Photo Sensor	Sensor Rail		Sensor (* Qty per Sensor Included)				Sensor Flag	
			Rail (1 pc.)	Mounting Screw (Pitch +1 pc.)	Sensor Bracket	Bracket Mounting Screw Nut	Sensor Mounting Screw	Sensor Mounting Washer	Sensor Flag (1 pc.)	Sensor Flag Mounting Screw
SX20□□	OP□	EE-SX951-R1M	SENAT3□H	SCB3-5	Dedicated	SCB3-5 (2pcs.) LBNR3 (2pcs.)	SCB3-6 (2pcs.)	M3 Small Flat Washer (2 pcs.)	Dedicated	Flat Head Machine Screw M2.6-4 (1pcs.) SCB3-6 (2pcs.)
SX20□□C	EP□									

*Sensors are not sold separately.

	Part Number	-	Block Qty.	-	Motor Adapter Plates	-	Base Length (L)	-	Code
	SX2001	-	B1	-	A2025	-	200	-	XW1

Proximity Sensor Type Installation Drawings - SUNX

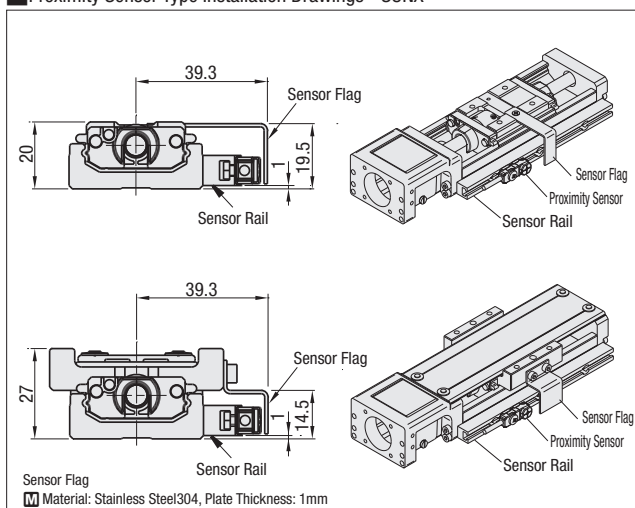
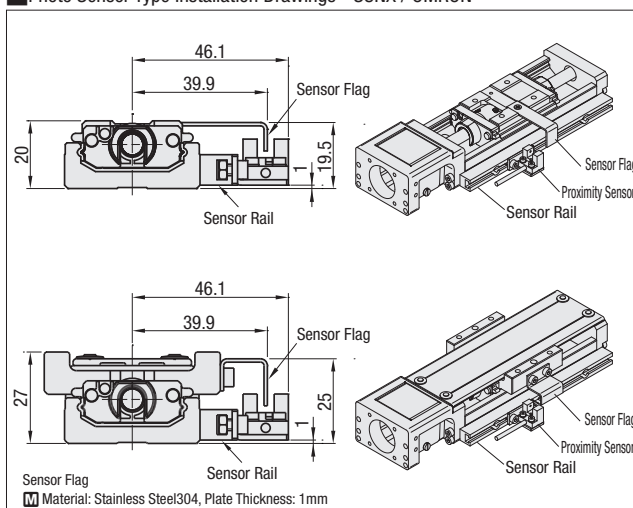


Photo Sensor Type Installation Drawings - SUNX / OMRON



Cautions

- Sensor set is shipped with SX Actuator. Assembly required.
- Please check for all included parts immediately after unpacking. Some small parts can be lost. Please handle the products with great care.

- SUNX and OMRON photo sensors are the same in external dimensions.
- Please access each sensor manufacturer's website for the specifications of sensors in use.

Part Number		Block Qty.	Motor Adapter Plates	Base Length (L)	*Effective Stroke				Total Mass (kg)				Mounting Hole Dimensions			
High Grade	*Precision Grade				B1	B2	MX-equipped (B1)	B1	B2	B1	B2	A	P	B	Number of Poles	Number of Holes (N)
(Standard Grease) SX2602 (C) SX2605 (C) SX2610 (C)	(Standard Grease) SX2602 (C) P SX2605 (C) P SX2610 (C) P	(1 pc.) B1 *Lubrication Units MX-equipped types and Lead 10 are available in B1 only.	(Servo Motor) A2625 A2638 A2640 E2640	100 (Lead 2 only)	17	-	-	0.87	-	1.07	-	10	10	1	4	
(Low Dust Generation Grease) SX2602 (C) G SX2605 (C) G SX2610 (C) G	(Low Dust Generation Grease) SX2602 (C) PG SX2605 (C) PG SX2610 (C) PG			150	67	-	-	0.95	-	1.15	-	35	35	2	6	
(Lubrication Unit MX-equipped, Standard Grease) SX2602 (C) -MX SX2605 (C) -MX SX2610 (C) -MX	(Lubrication Unit MX-equipped, Standard Grease) SX2602 (C) P-MX SX2605 (C) P-MX SX2610 (C) P-MX			(2 pcs.) B2	*(No Adapter Plate) N *(No Motor Bracket) F	200	117	105	1.16	1.36	1.89	45	80	45	3	8
				250		167	91	155	1.37	1.57	1.57	2.10	30	15	4	10
				300		217	141	205	1.58	1.78	1.78	2.10	30	40		
						350 (Lead 5 and 10 only)	267	191	255	1.79	1.99	1.99	2.31	15		
				400 (Lead 5 and 10 only)	317	241	305	2.00	2.20	2.20	2.52	40				

- * Precision Certificate is enclosed with precision grade products.
- * Motor adapter plate and mounting screws are not included with No Adapter Plate Type.
- * Effective stroke is indicated in dimensions with a margin of 2.5mm each from the ends.
- * (C) is for Cover Type.
- ☞ For Max. Velocity, see PA-017
- ☞ For Moment of Inertia, see PA-016
- ☞ 0.007kg will be added to MX-equipped types.

Accuracy Standards

Accuracy Standards	High Grade	Precision Grade
Positioning (mm)	0.06	0.02
Backlash (mm)	0.01	0.003
Positioning Repeatability (mm)	±0.005	±0.003
Running Parallelism (mm)	0.025	0.01
Starting Torque (N · cm)	2	2

Servo Motor Application Table

Part Number	Flange Size	Manufacturer	Wattage
A2625	□25	YASKAWA / Mitsubishi Electric Corporation	10W/20W/30W
A2638	□38	Panasonic	50W/100W
E2640		SIEMENS	
A2640	□40	YASKAWA Electric Corporation Mitsubishi Electric Corporation Keyence Corporation OMRON Corporation	50W

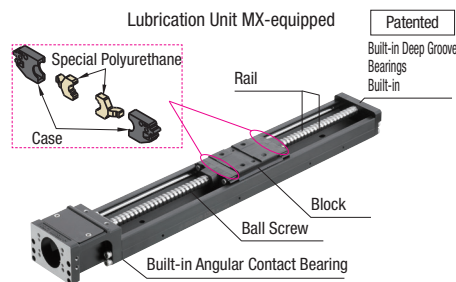
- ☞ Shaft insertion depth on coupling will be 0.5mm shorter on each side when used with Siemens motor.
- ☞ For details on supported motor types and detailed diagram of Motor Adapter Plates, see PA-027

Stepping Motor Application Table

Part Number	Flange Size	Manufacturer	Type
T2628	□28	Oriental Motor	2-phase / 5-phase / α STEP
T2642	□42		
T2656.4	□56.4	NEMA Standards	-

- ☞ NEMA Standards are a set of standards stipulated by National Electrical Manufacturers Association of United States.
- ☞ For details on supported motor types and detailed diagram of Motor Adapter Plates, see PA-027

Part Number	Block Qty.	Motor Adapter Plates	Base Length (L)
SX2602C SX2605-MX	B1 B1	A2640 A2638	300 200



Provides long term maintenance-free operation.
 For details, see PA-004

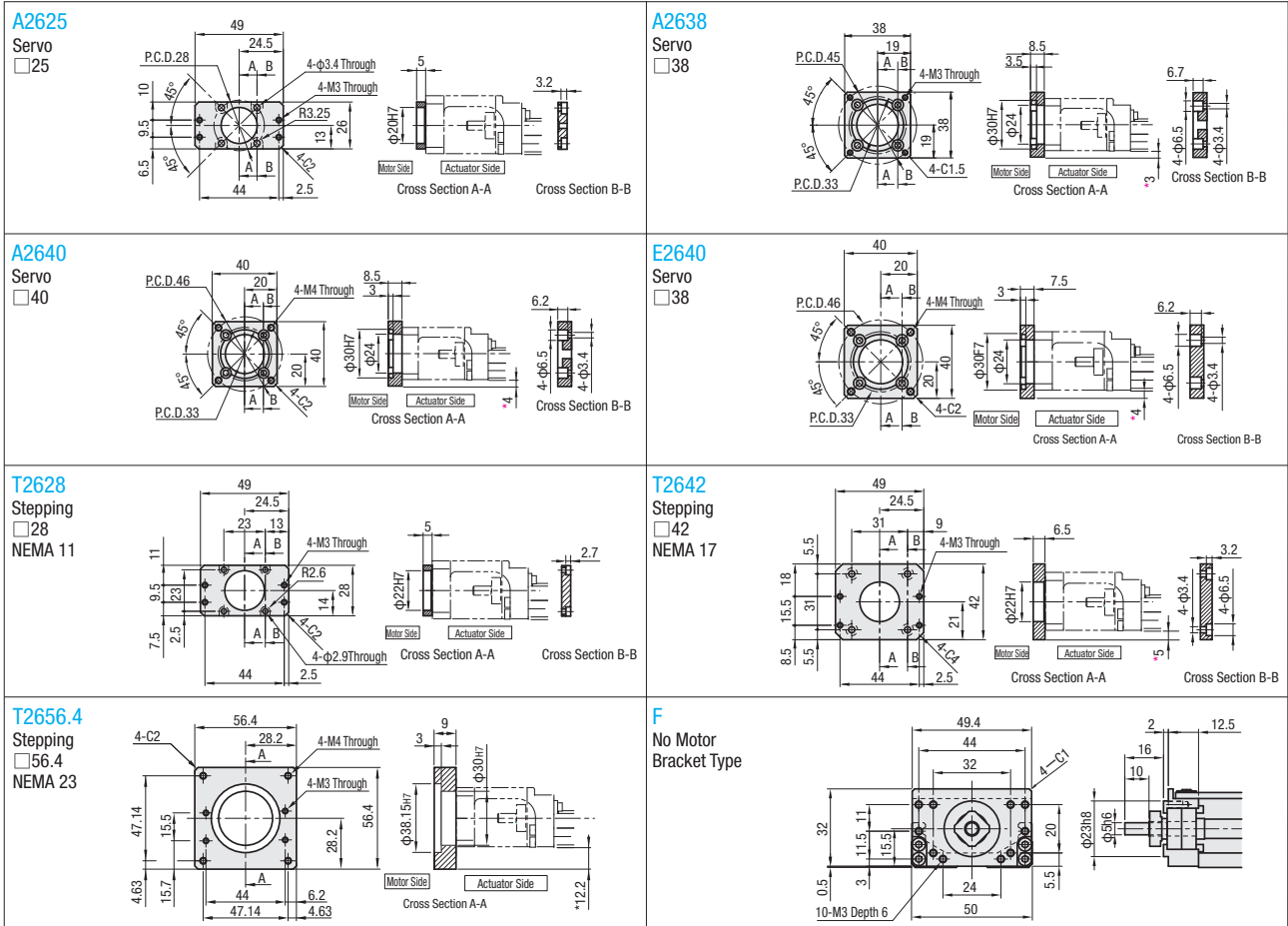
Part Number	Block Qty.	Screw Shaft Dia.	Lead
SX26□□-B1-□	1	8	2
SX26□□-B2-□	2		5
SX26□□-B1-F	1		10
SX26□□-B2-F	2		
SX26□□C-B1-□	1	8	2
SX26□□C-B2-□	2		5
SX26□□C-B1-F	1		10
SX26□□C-B2-F	2		

- ☞ Lead 10 is available for selection only in case of B1 (Block 1 pc.)
- ☞ SX26□□(C) Series sensor set can be specified as an alteration. For Detailed alteration diagram, see PA-028

Motor Adapter Plates / Motor Adapter Centering Tools For Single Axis Actuators SX26

Motor Adapter Plate Dimensional Drawing

Note: Note that the Motor Adapter protrudes beyond the rail at * marked area.



Stepping Motor Application Table

Part Number	Flange Size	Manufacturer	Product Number	Type	Recommended Coupling
T2628	□28	Oriental Motor	PKP22	2-phase	SSCW21 SSCPW21 SCPDW19
			PKP52	5-phase	
			ARM2	α STEP	
T2642	□42		PK24*/PKP24	2-phase	
			RKS54*	5-phase	
			PK54	α STEP	
T2656.4	□56.4	NEMA Standards	NEMA23	-	SCPDW19

*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
A2625	□25	YASKAWA Electric Corporation	SGMMV-A1E	10W	SSCW21 SSCPW21 SCPDW19
			SGMMV-A2E	20W	
			SGMMV-A3E	30W	
A2638	□38	Panasonic	HG-AK0136	10W	
			HG-AK0236	20W	
			HG-AK0336	30W	
A2640	□40	Mitsubishi Electric Corporation	M5MDS5A	50W	
			M5MDS5A	50W	
			M5MDS1*	100W	
		YASKAWA Electric Corporation	SGMJV-A5A	50W	
			SGM7A-A5A		
			SGMAV-A5A		
E2640	□40	SIEMENS	1FK7011-5	50W	
			1FK7015-5	100W	

* Shaft insertion depth on coupling will be 0.5mm shorter on each side when used with Siemens motor.

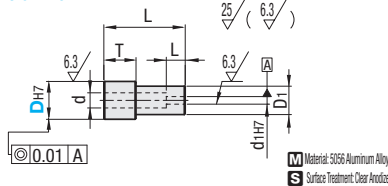
* Product numbers and specifications of motors are subject to change. Please check the manufacturers' information.

* Applicable motors and couplings are not limited to the above listed products. Please confirm each mounting dimension.

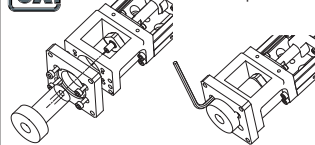
Motor Adapter Centering Tools



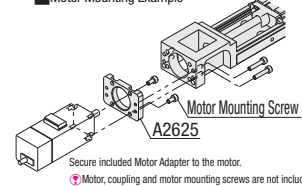
JIGLX26



Please use for centering of Motor Adapter Plates.



Motor Mounting Example



Part Number	D	Applicable Adapter Plate	d	D1	d1	L	T	l
JIGLX26	30	A2638/A2640/T2656.4	8	15	5	49.5	13	11



Sensor Sets For Single Axis Actuators SX26 (Options)

Proximity Sensor (SUNX) - Set Part Specification

SX Part Number	Code (☐ is Sensor Qty.) * For L≤100, Max. 2 For L≥150, Max. 3	Sensor Rail		Sensor Rail		Sensor (* Qty per Sensor Included)		Sensor Flag	
		GX-F8A (ON when near)	GX-F8B (ON when away)	Rail (1 pc.)	Mounting Screw (Pitch +1 pc.)	Sensor Mounting Screw (1 pc.)	Mounting Nut (1 pc.)	Sensor Flag (1 pc.)	Sensor Flag Mounting Screw
SX26☐☐	XA☐	☐ pc(s).	-	SENAT3☐H	SCB3-5	CBSST3-10	LBNR3	Dedicated	Flat Head Machine Screw M2.6-4(1 pc.)
	XB☐	-	☐ pc(s).						SCB3-6 (2 pcs.)
SX26☐☐C	FA☐	☐ pc(s).	-	SENAT3☐H	SCB3-5	CBSST3-10	LBNR3	Dedicated	Flat Head Machine Screw M2.6-4(1 pc.)
	FB☐	-	☐ pc(s).						SCB3-6 (2 pcs.)
SX26☐☐	XW1	1 pc.	1 pc.	SENAT3☐H	SCB3-5	CBSST3-10	LBNR3	Dedicated	Flat Head Machine Screw M2.6-4(1 pc.)
	XW2	2 pcs.	2 pcs.						SCB3-6 (2 pcs.)
	XW3	2 pcs.	1 pc.						SCB3-6 (2 pcs.)
SX26☐☐C	FW1	1 pc.	1 pc.	SENAT3☐H	SCB3-5	CBSST3-10	LBNR3	Dedicated	Flat Head Machine Screw M2.6-4(1 pc.)
	FW2	1 pc.	2 pcs.						SCB3-6 (2 pcs.)
	FW3	2 pcs.	1 pc.						SCB3-6 (2 pcs.)

Photo Sensor (SUNX) - Set Part Specification

SX Part Number	Code (☐ is Sensor Qty.) * For L≤100, Max. 2 For L≥150, Max. 3	Photo Sensor	Sensor Rail		Sensor (* Qty per Sensor Included)				Sensor Flag	
			Rail (1pc.)	Mounting Screw (Pitch +1 pc.)	Sensor Bracket	Bracket Mounting Screw Nut	Sensor Mounting Screw	Sensor Mounting Washer	Sensor Flag (1 pc.)	Sensor Flag Mounting Screw
SX26☐☐	SP☐	PM-L25	SENAT3☐H	SCB3-5	Dedicated	SCB3-5 (2 pcs.) LBNR3 (2 pcs.)	SCB2-6 (2 pcs.)	M2 Small Flat Washer (2 pcs.) M2 Spring Washer (2 pcs.)	Dedicated	Flat Head Machine Screw M2.6-4 (1 pc.)
SX26☐☐C	MP☐									SCB3-6 (2 pcs.)

Photo Sensor (Omron) - Set Part Specification

SX Part Number	Code (☐ is Sensor Qty.) * For L≤100, Max. 2 For L≥150, Max. 3	Photo Sensor	Sensor Rail		Sensor (* Qty per Sensor Included)				Sensor Flag	
			Rail (1pc.)	Mounting Screw (Pitch +1 pc.)	Sensor Bracket	Bracket Mounting Screw Nut	Sensor Mounting Screw	Sensor Mounting Washer	Sensor Flag (1 pc.)	Sensor Flag Mounting Screw
SX26☐☐	OP☐	EE-SX951-R1M	SENAT3☐H	SCB3-5	Dedicated	SCB3-5 (2 pcs.) LBNR3 (2 pcs.)	SCB3-6 (2 pcs.)	Small Flat Washer (2 pcs.)	Dedicated	Flat Head Machine Screw M2.6-4 (1 pc.)
SX26☐☐C	EP☐									SCB3-6 (2 pcs.)

* Sensors are not sold separately.

Option  Part Number - Block Qty. - Motor Adapter Plates - Base Length (L) - Code
 SX2605C - B1 - A2638 - 200 - MP2

Proximity Sensor Type Installation Drawings - SUNX

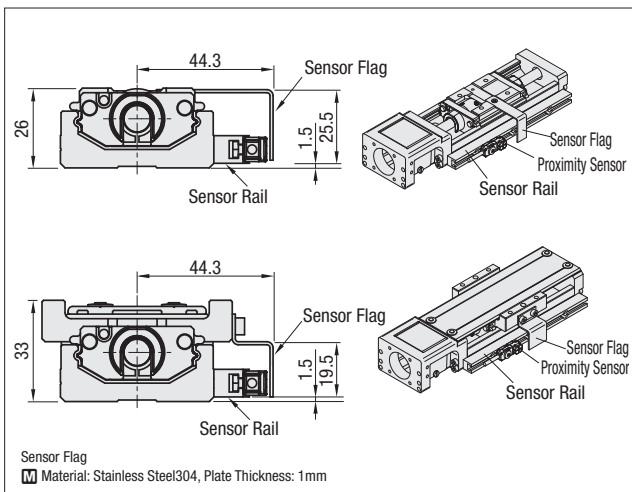
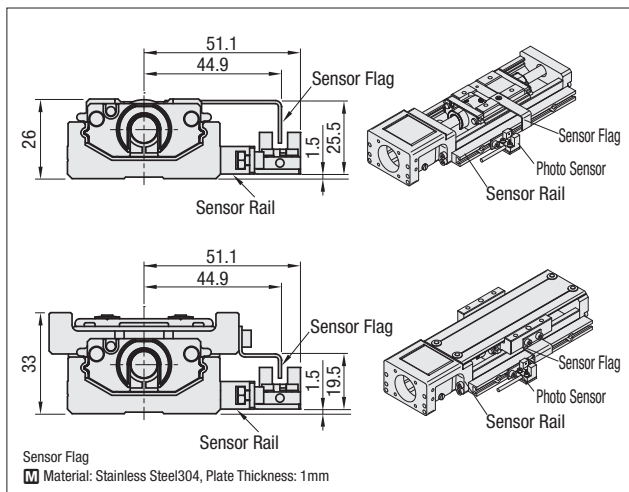


Photo Sensor Type Installation Drawings - SUNX / OMRON



Cautions

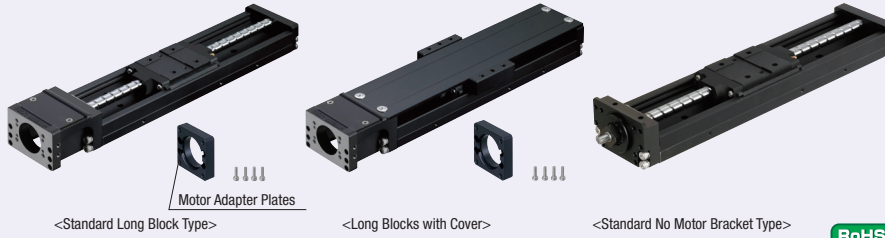
- Sensor set is shipped with SX Actuator. Assembly required.
- Please check for all included parts immediately after unpacking. Some small parts can be lost. Please handle the products with great care.

- ☞ SUNX and OMRON photo sensors are the same in external dimensions.
- ☞ Please access each sensor manufacturer's website for the specifications of sensors in use.

Single Axis Actuator

Single Axis Actuators SX30 Standard / Cover Type

Convenient Sensor Sets are also available. PA-032

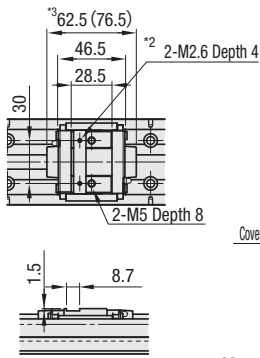


Specifications	
SX30	
Standard / Cover	
Screw Shaft Dia. (mm)	10
Lead (mm)	5, 10
Accuracy	High Grade / Precision Grade
A Accessories	
① Motor Adapter Plates	
M 5052 Aluminum Alloy	S Black Anodize
② Adapter Plate Screw 4 pcs.	W 302HQ Stainless Steel
⚠ No accessory is included for No Motor Bracket Type.	
RoHS For Materials Table, see PA-015	

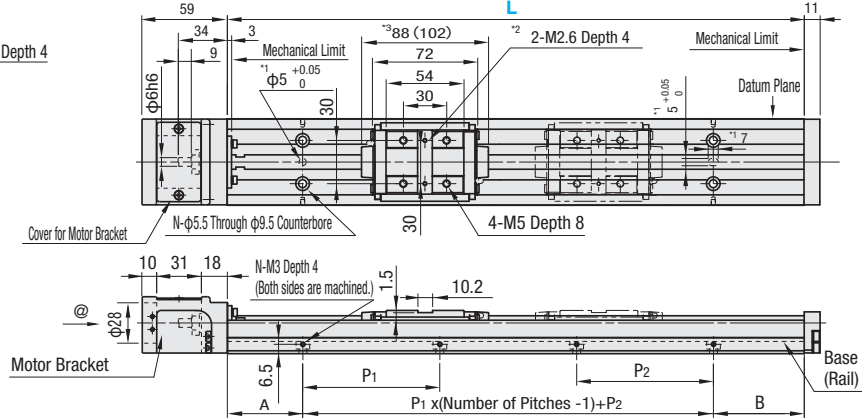
Part Number	Standard Grease		Low Dust Generation Grease		Lubrication Unit MX-equipped (Standard Grease)	
	High Grade	Precision Grade	High Grade	Precision Grade	High Grade	Precision Grade
Lead 5	SX3005 (C)	SX3005 (C) P	SX3005 (C) G	SX3005 (C) PG	SX3005 (C) -MX	SX3005 (C) P-MX
Lead 10	SX3010 (C)	SX3010 (C) P	SX3010 (C) G	SX3010 (C) PG	SX3010 (C) -MX	SX3010 (C) P-MX

(C) is for Cover Type. Low Particle Grease Information PA-018 Lubrication Unit MX Information PA-004

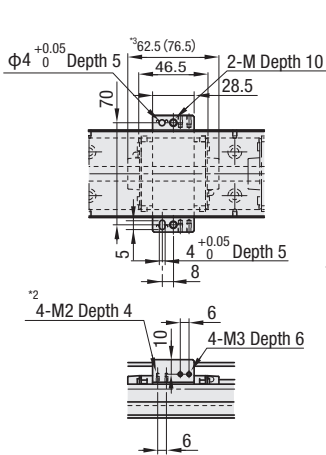
Standard Short Block Type



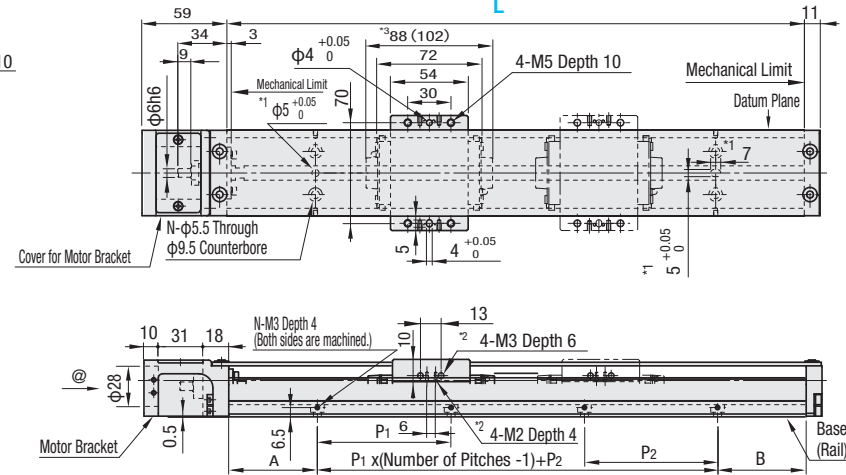
Standard Long Block Type



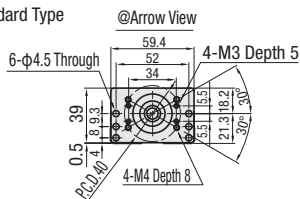
Short Blocks with Cover



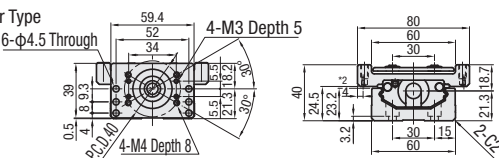
Long Blocks with Cover



Standard Type



Cover Type

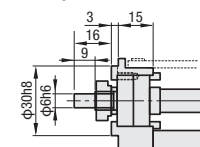


- *1: Dowel Holes for Base Positioning.
- *2: Tapped Holes for Sensor Flag Mount.
- *3: Value in () is for Lubrication Unit MX-equipped Type.

- Effective stroke is the value with 2.5mm margin on each side from mechanical limits, i.e., 5mm in total.
- For Double Block Type, double-dashed lined blocks are not connected with the ball screw.
- For Double Block Type, effective strokes are the values when two blocks contact with each other.

No Motor Bracket Type

*For mounting details, see PA-031



Part Number		Block Qty.	Motor Adapter Plates	Base Length (L)	Mounting Hole Dimensions							
High Grade	*Precision Grade				A	P1	P2	B	Number of Pitches	Number of Holes (N)		
(Standard Grease) SX3005 (C) SX3010 (C)	(Standard Grease) SX3005 (C) P SX3010 (C) P	Long Blocks (1 pc.)B1 (2 pcs.)B2 *For B2, L≥300.	(Servo) A3038 A3040 E3040	125	50	100	100	50	1	4		
				150							25	25
				200								
(Low Particle Grease) SX3005 (C) G SX3010 (C) G	(Low Particle Grease) SX3005 (C) PG SX3010 (C) PG	Short Blocks (1 pc.)S1 (2 pcs.)S2 *Lubrication Units MX-equipped types are available in B1/S1 only	(Stepping) T3042 T3056.4 T3060	250			50	2	6			
				300			100					
				350			50					
(Lubrication Unit MX-equipped, Standard Grease) SX3005 (C) -MX SX3010 (C) -MX	(Lubrication Unit MX-equipped, Standard Grease) SX3005 (C) P-MX SX3010 (C) P-MX		*(No Adapter Plate) N (Without Motor Bracket) F	400			100	3	8			
				450			50					
				500			100					
				550			50	4	10			
				600			100			5	12	

*Precision Certificate is enclosed with precision grade products. *(C) is for Cover Type.
 *Motor adapter plate and mounting screws are not included with No Adapter Plate Type.

■ Servo Motor Application Table

Part Number	Flange Size	Manufacturer	Wattage
A3038	□38	Panasonic	50W/100W
E3040	□40	SIEMENS	
A3040		YASKAWA Electric Corporation	
		Mitsubishi Electric Corporation	
		Keyence Corporation	
		OMRON Corporation	

⊕ Shaft length in coupling will be 1.15mm shorter on each side when used with Siemens motor.
 ⊕ For details on supported motor types and detailed diagram of Motor Adapter Plates, see PA-031

■ Stepping Motor Application Table

Part Number	Flange Size	Manufacturer	Type
T3042	□42	Oriental Motor	2-phase / 5-phase / α STEP
T3060	□60		
T3056.4	□56.4	NEMA Standards	-

⊕ NEMA Standards are a set of standards stipulated by National Electrical Manufacturers Association of United States.
 ⊕ For details on supported motor types and detailed diagram of Motor Adapter Plates, see PA-031

■ Effective Stroke / Total Mass

Base Length (L)	Effective Stroke						Total Mass (kg)							
	MX-unequipped			MX-equipped			Standard			Cover				
	B1	B2	S1	S2	B1	S1	B1	B2	S1	S2	B1	B2	S1	S2
125	29	-	54.5	-	-	-	1.30	-	1.18	-	1.75	-	1.50	-
150	54	-	79.5	17	-	65.5	1.47	-	1.35	1.53	1.92	-	1.67	1.98
200	104	-	129.5	67	90	115.5	1.81	-	1.68	1.86	2.25	-	2	2.32
250	154	-	179.5	117	140	165.5	2.14	-	2.02	2.2	2.59	-	2.34	2.66
300	204	116	229.5	167	190	215.5	2.48	2.79	2.35	2.53	2.92	3.49	2.67	2.99
350	254	166	279.5	217	240	265.5	2.81	3.12	2.69	2.87	3.26	3.83	3.01	3.33
400	304	216	329.5	267	290	315.5	3.15	3.46	3.02	3.21	3.6	4.16	3.35	3.66
450	354	266	379.5	317	340	365.5	3.49	3.79	3.36	3.54	3.93	4.5	3.68	4
500	404	316	429.5	367	390	415.5	3.82	4.13	3.7	3.88	4.27	4.83	4.02	4.33
550	454	366	479.5	417	440	465.5	4.16	4.47	4.03	4.21	4.6	5.17	4.35	4.67
600	504	416	529.5	467	490	515.5	4.49	4.8	4.37	4.55	4.94	5.51	4.69	5.01

*Effective stroke is indicated in dimensions with a margin of 2.5 mm each from the ends. ⊕ MX-equipped types are +0.011kg.

■ Accuracy Standards

Accuracy Standards	L≤400		L>450	
	High Grade	Precision Grade	High Grade	Precision Grade
Positioning (mm)	0.06	0.02	0.1	0.025
Backlash (mm)	0.02	0.003	0.02	0.003
Positioning Repeatability (mm)	±0.005	±0.003	±0.005	±0.003
Running Parallelism (mm)	0.025	0.01	0.035	0.015
Starting Torque (N·cm)	4			

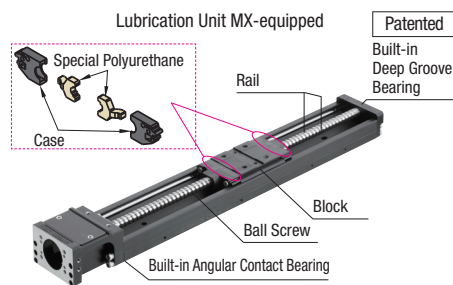
⊕ See PA-017 for Maximum Velocity.
 ⊕ See PA-016 for Moment of Inertia.



Part Number	-	Block Qty.	-	Motor Adapter Plates	-	Base Length (L)
SX3010C	-	B1	-	A3040	-	600
SX3010-MX	-	B1	-	A3040	-	600

Part Number	Block Qty.	Screw Shaft Dia.	Lead
SX30□□-B1/S1-□	1	10	5
SX30□□-B2/S2-□	2		10
SX30□□-B1/S1-F	1	10	10
SX30□□-B2/S2-F	2		10
SX30□□C-B1/S1-□	1	10	5
SX30□□C-B2/S2-□	2		10
SX30□□C-B1/S1-F	1	10	10
SX30□□C-B2/S2-F	2		10

⊕ SX30□□(C) Series sensor set can be specified as an alteration. For Detailed alteration diagram, see PA-032



Provides long term maintenance-free operation. For details, see PA-004

Sensor Sets For Single Axis Actuators SX30 (Options)

Proximity Sensor (SUNX) - Set Part Specification

SX Part Number	Code (□ is Sensor Qty.) * For L≤150, Max. 2 For L≥200, Max. 3	Sensor Rail		Sensor (* Qty per Sensor Included)			Sensor Flag		
		GX-F12A (ON when near)	GX-F812 (ON when away)	Rail (1 pc.)	Mounting Screw (Pitch +1 pc.)	Sensor Mounting Screw (1 pc.)	Mounting Nut (1 pc.)	Sensor Flag (1 pc.)	Sensor Flag Mounting Screw
SX30□□-B□	XA□	□ pc (s.)	-	SENC3□H	SCB3-5	CBSST3-8	LBNR3	Original	Flat Head Screw M2.6-4 (1 pc.)
	XB□	-	□ pc (s.)						
SX30□□-S□	XAS□	□ pc (s.)	-	SENC3□H	SCB3-5	CBSST3-8	LBNR3	Original	Flat Head Screw M2.6-4 (1 pc.)
	XBS□	-	□ pc (s.)						
SX30□□C-B□	FA□	□ pc (s.)	-	SENC3□H	SCB3-5	CBSST3-8	LBNR3	Original	SCB3-6 (2 pcs.)
	FB□	-	□ pc (s.)						
SX30□□C-S□	FAS□	□ pc (s.)	-	SENC3□H	SCB3-5	CBSST3-8	LBNR3	Original	SCB3-6 (2 pcs.)
	FBS□	-	□ pc (s.)						
SX30□□-B□	XW1	1 pc.	1 pc.	SENC3□H	SCB3-5	CBSST3-8	LBNR3	Original	Flat Head Screw M2.6-4 (1 pc.)
	XW2	2 pcs.	2 pcs.						
	XW3	2 pcs.	1 pc.						
SX30□□-S□	XWS1	1 pc.	1 pc.	SENC3□H	SCB3-5	CBSST3-8	LBNR3	Original	Flat Head Screw M2.6-4 (1 pc.)
	XWS2	2 pcs.	2 pcs.						
	XWS3	2 pcs.	1 pc.						
SX30□□C-B□	FW1	1 pc.	1 pc.	SENC3□H	SCB3-5	CBSST3-8	LBNR3	Original	SCB3-6 (2 pcs.)
	FW2	2 pcs.	2 pcs.						
	FW3	2 pcs.	1 pc.						
SX30□□C-S□	FWS1	1 pc.	1 pc.	SENC3□H	SCB3-5	CBSST3-8	LBNR3	Original	SCB3-6 (2 pcs.)
	FWS2	2 pcs.	2 pcs.						
	FWS3	2 pcs.	1 pc.						

Photo Sensor (SUNX) - Set Part Specification

SX Part Number	Code (□ is Sensor Qty.) * For L≤150, Max. 2 For L≥200, Max. 3	Photo Sensor	Sensor Rail		Sensor (* Qty per Sensor Included)				Sensor Flag		
			Rail (1 pc.)	Mounting Screw (Pitch +1 pc.)	Sensor Bracket	Bracket Mounting Screw Nut	Sensor Mounting Screw	Sensor Mounting Washer	Sensor Flag (1 pc.)	Sensor Flag Mounting Screw	
SX30□□-B□	SP□	PM-L25	SENC3□H	SCB3-5	Original	SCB3-5 (2 pcs.)	LBNR3 (2 pcs.)	SCB2-6 (2 pcs.)	M2 Small Flat Washer (2 pcs.) M2 Spring Washer (2 pcs.)	Original	Flat Head Screw M2.6-4 (2 pcs.) SCB3-6 (2 pcs.)
SX30□□-S□	SPS□		SENC3□H								
SX30□□C-B□	MP□		SENC3□H								
SX30□□C-S□	MPS□		SENC3□H								

Photo Sensor (Omron) - Set Part Specification

SX Part Number	Code (□ is Sensor Qty.) * For L≤150, Max. 2 For L≥200, Max. 3	Photo Sensor	Sensor Rail		Sensor (* Qty per Sensor Included)				Sensor Flag		
			Rail (1 pc.)	Mounting Screw (Pitch +1 pc.)	Sensor Bracket	Bracket Mounting Screw Nut	Sensor Mounting Screw	Sensor Mounting Washer	Sensor Flag (1 pc.)	Sensor Flag Mounting Screw	
SX30□□-B□	OP□	EE-SX951-R1M	SENC3□H	SCB3-5	Original	SCB3-5 (2 pcs.)	LBNR3 (2 pcs.)	SCB3-6 (2 pcs.)	M3 Small Flat Washer (2 pcs.)	Original	Flat Head Screw M2.6-4 (2 pcs.) SCB3-6 (2 pcs.)
SX30□□-S□	OPS□		SENC3□H								
SX30□□C-B□	EPI□		SENC3□H								
SX30□□C-S□	EPS□		SENC3□H								

* Sensors are not sold separately

Option	Part Number	Block Qty.	Motor Adapter Plates	Base Length (L)	Code
	SX3010	B1	A3040	600	XW1
	SX3005	S1	A3040	600	SPS3

Proximity Sensor Type Installation Drawings - SUNX

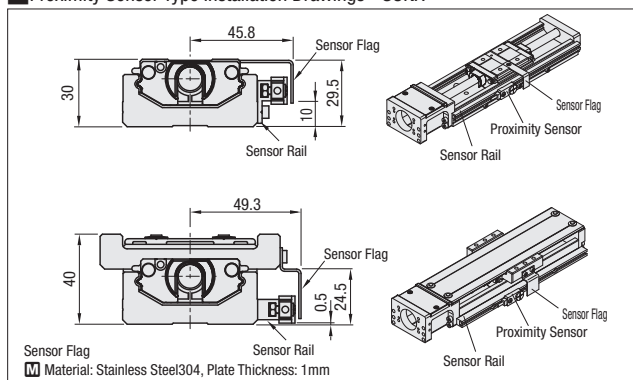
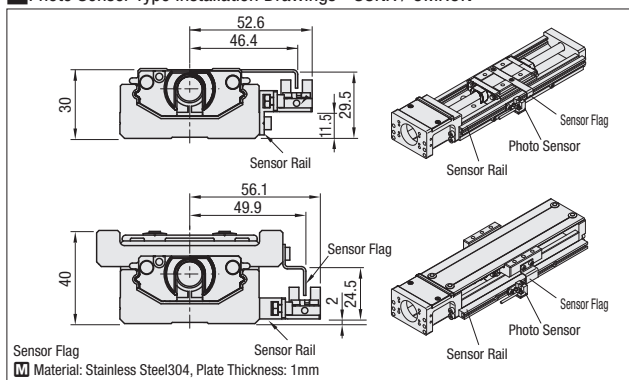


Photo Sensor Type Installation Drawings - SUNX / OMRON



Cautions

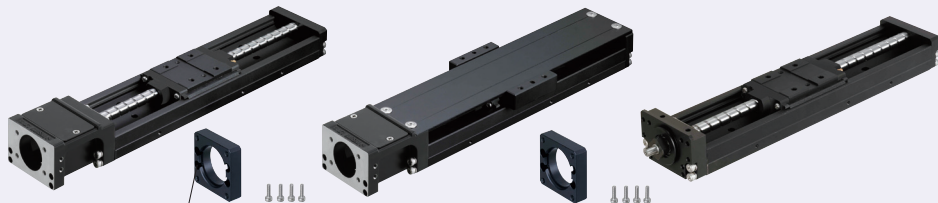
- Sensor set is shipped with SX Actuator. Assembly required.
- Please check for all included parts immediately after unpacking. Some small parts can be lost. Please handle the products with great care.

- ⚠ SUNX and OMRON photo sensors are the same in outside dimensions.
- ⚠ Please access each sensor manufacturer's website for the specifications of sensors in use.

Single Axis Actuator

Single Axis Actuators SX45 Standard / Cover Type

Convenient Sensor Sets are also available. PA-036



Specifications	
SX45	
Standard / Cover	
Screw Shaft Dia. (mm)	15
Lead (mm)	10, 20
Accuracy	High Grade / Precision Grade
A Accessories	

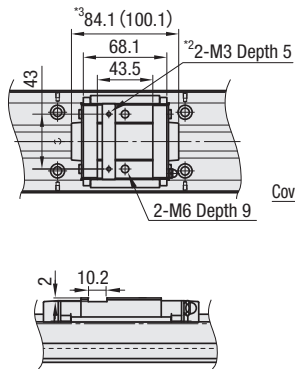
① Motor Adapter Plates
M 5052 Aluminum Alloy S Black Anodize
 ② Adapter Plate Screw 4 pcs. M Stainless SteelXM7
⊕ No accessory is included with No Motor Bracket Type.

RoHS ⊕ For Material table, see PA-015

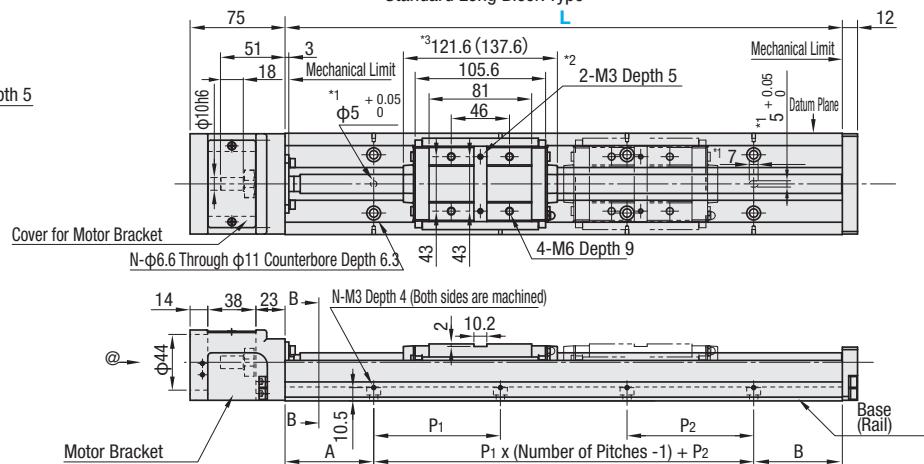
Part Number	Standard Grease		Low Dust Generation Grease		Lubrication Unit MX-equipped (Standard Grease)	
	High Grade	Precision Grade	High Grade	Precision Grade	High Grade	Precision Grade
Lead 10	SX4510 (C)	SX4510 (C) P	SX4510 (C) G	SX4510 (C) PG	SX4510 (C) -MX	SX4510 (C) P-MX
Lead 20	SX4520 (C)	SX4520 (C) P	SX4520 (C) G	SX4520 (C) PG	SX4520 (C) -MX	SX4520 (C) P-MX

⊕ (C) is for Cover Type. ⊕ Low Dust Generation Grease Information PA-018 ⊕ Lubrication Unit MX Information PA-004

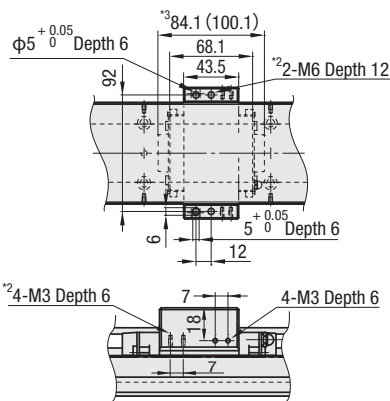
Standard Short Block Type



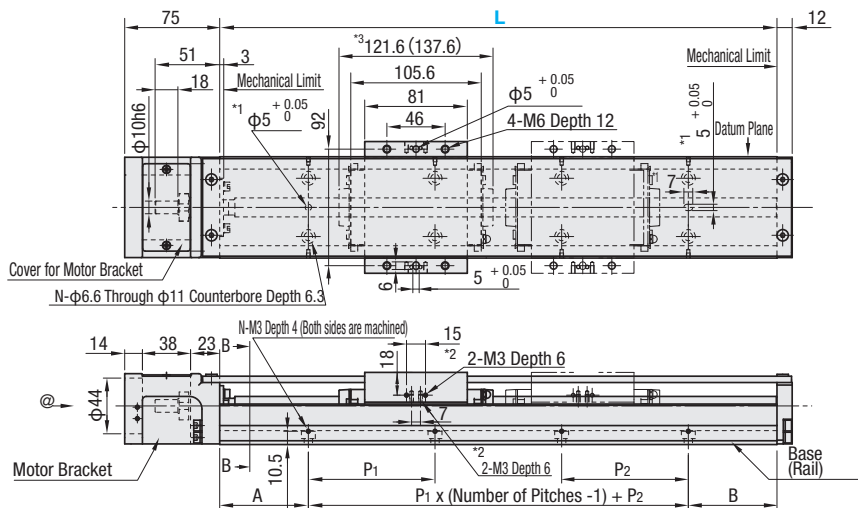
Standard Long Block Type



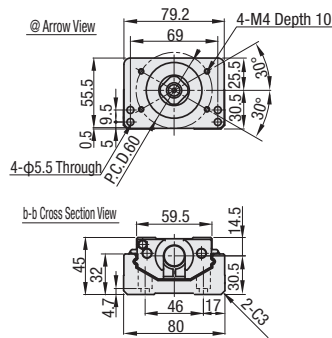
Short Blocks with Cover



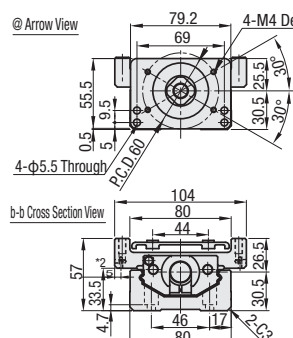
Long Blocks with Cover



Standard

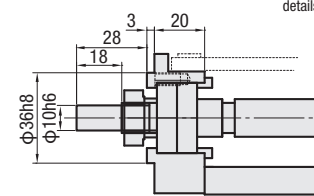


Cover



- *1: Dowel Holes for Base Positioning.
- *2: Tapped Holes for Sensor Flag Mount.
- *3: Value in () is for Lubrication Unit MX-equipped Type.
- ⊕ Effective stroke is the value with 2.5mm margin on each side from mechanical limits, i.e., 5mm in total.
- ⊕ For Double Block Type, double-dashed lined blocks are not connected with the ball screw.
- ⊕ For Double Block Type, effective strokes are the values when two blocks contact with each other.
- ⊕ Precision specification value is the value achieved after fixing rails. (It is not a value before tightening the rail screws.) For values, see PA-017

No Motor Bracket Type



* For mounting details, PA-035

Part Number		Block Qty.	Motor Adapter Plates	Base Length (L)	Mounting Hole Dimensions						
High Grade	* Precision Grade				A	P1	P2	B	Number of Pitches	Number of Holes (N)	
(Standard Grease) SX4510 (C) SX4520 (C)	(Standard Grease) SX4510 (C) P SX4520 (C) P	Long Blocks (1 pc.)B1 (2 pcs.)B2	(Servo Motor) A4538 A4540 MA4560 A4560 E4540 E4555	340	70	100	100	70	2	6	
(Low Dust Generation Grease) SX4510 (C) G SX4520 (C) G	(Low Dust Generation Grease) SX4510 (C) PG SX4520 (C) PG		(Stepping Motor) T4560 T4556.4 T4585	390			50				3
(Lubrication Unit MX-equipped, Standard Grease) SX4510 (C) -MX SX4520 (C) -MX	(Lubrication Unit MX-equipped, Standard Grease) SX4510 (C) P-MX SX4520 (C) P-MX	*Lubrication Units MX-equipped types are available in B1/S1 only.	440	100			4				
			490	50							
			540	100							
			(No Adapter Plate) N (No Motor Bracket) F	590			50		5	12	

* Precision Certificate is enclosed with precision grade products. * Motor adapter plate and mounting screws are not included with No Adapter Plate Type. * (C) is for Cover Type.

Accuracy Standards

Accuracy Standards	High Grade	Precision Grade
Positioning (mm)	0.1	0.025
Backlash (mm)	0.02	0.003
Positioning Repeatability (mm)	±0.005	±0.003
Running Parallelism (mm)	0.035	0.015
Starting Torque (N · cm)	10	

Ⓢ See PA-017f for Maximum Velocity.
 Ⓢ See PA-016 for Moment of Inertia.

Effective Stroke, Total Mass

Base Overall Length (L)	* Effective Stroke						* Total Mass (kg)							
	MX-unequipped			MX-equipped			Standard				Cover			
	B1	B2	S1	S2	B1	S1	B1	B2	S1	S2	B1	B2	S1	S2
340	210.4	88.8	247.9	163.8	194.4	231.9	5.77	6.69	5.37	5.91	6.59	8.09	5.94	6.78
390	260.4	138.8	297.9	213.8	244.4	281.9	6.37	7.29	5.98	6.51	7.23	8.73	6.57	7.41
440	310.4	188.8	347.9	263.8	294.4	331.9	6.97	7.9	6.58	7.11	7.86	9.36	7.2	8.04
490	360.4	238.8	397.9	313.8	344.4	381.9	7.57	8.5	7.18	7.71	8.49	9.99	7.84	8.68
540	410.4	288.8	447.9	363.8	394.4	431.9	8.18	9.1	7.78	8.31	9.13	10.63	8.47	9.31
590	460.4	338.8	497.9	413.8	444.4	481.9	8.78	9.7	8.39	8.92	9.76	11.26	9.1	9.94

* Effective stroke is indicated in dimensions with a margin of 2.5mm each from the ends.
 * MX-equipped types are +0.024kg.

Servo Motor Application Table

Part Number	Flange Size	Manufacturer	Wattage
A4538	□38	Panasonic	50W/100W
A4540	□40	Mitsubishi Electric Corporation	
		OMRON Corporation	
		Keyence Corporation	
MA4560	□60	Panasonic	50W/100W/150W
A4560	□60	Panasonic	100W/200W/400W
		OMRON Corporation	100W
		YASKAWA Electric Corporation	200W/400W
		Keyence Corporation	

Ⓢ For detailed diagram of Motor Adapter Plates, see PA-035
 Ⓢ For details on supported motor types, see PA-041

Servo Motor Application Table

Part Number	Flange Size	Manufacturer	Wattage
E4540	□40	SIEMENS	50W/100W
E4555	□55		380W

Stepping Motor Application Table

Part Number	Flange Size	Manufacturer	Type
T4560	□60	Oriental Motor	5-phase / α STEP
T4556.4	□56.4	NEMA Standards	-
T4585	□85		

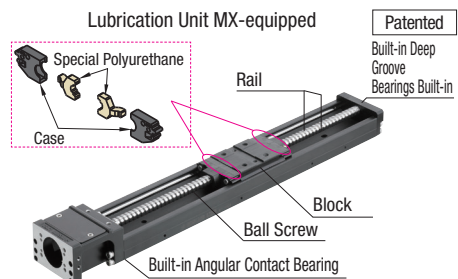
Ⓢ NEMA Standards are a set of standards stipulated by National Electrical Manufacturers Association of United States.
 Ⓢ For details on supported motor types and detailed diagram of Motor Adapter Plates, see PA-041



Part Number	Block Qty.	Motor Adapter Plates	Base Length (L)
SX4510C	B1	A4540	540
SX4520-MX	B1	A4560	390

Part Number	Block Qty.	Screw Shaft Dia.	Lead
SX45□□-B1/S1-□	1	15	10
SX45□□-B2/S2-□	2		
SX45□□-B1/S1-F	1		20
SX45□□-B2/S2-F	2		
SX45□□C-B1/S1-□	1	15	10
SX45□□C-B2/S2-□	2		
SX45□□C-B1/S1-F	1		20
SX45□□C-B2/S2-F	2		

Ⓢ SX45□□(C) Series sensor set can be specified as an alteration. For Detailed alteration diagram, see □PA-036

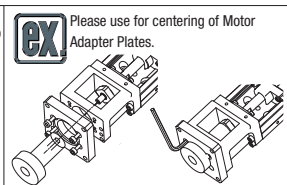
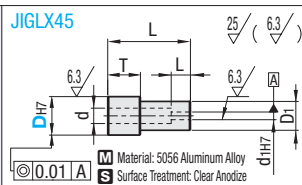
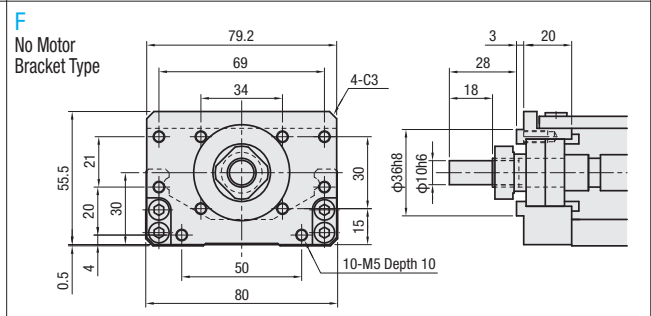
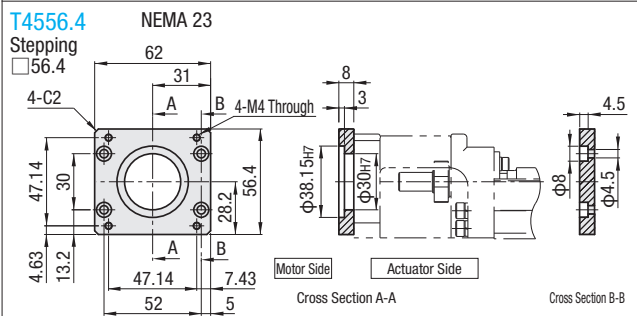
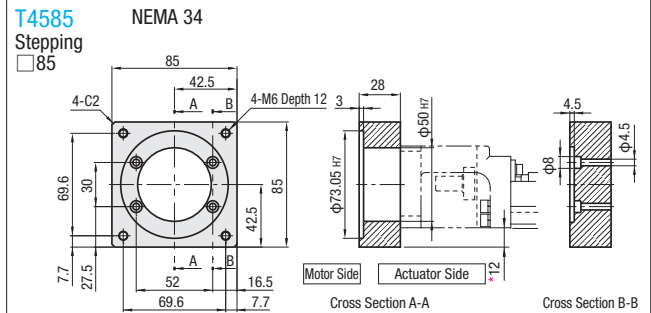
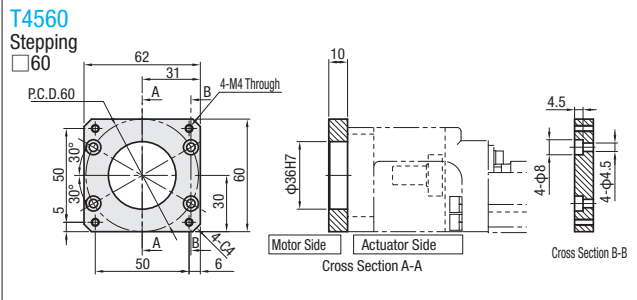
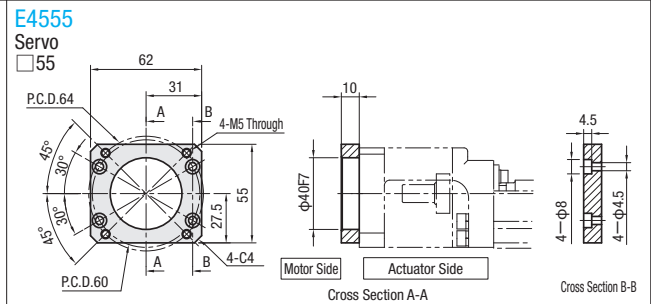
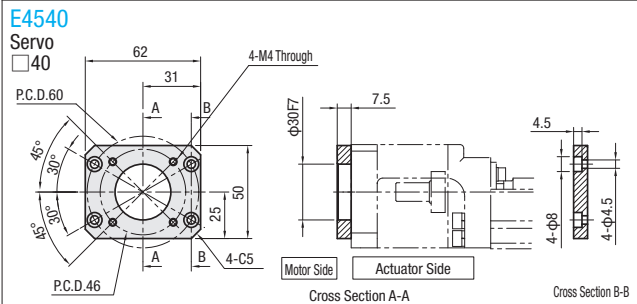
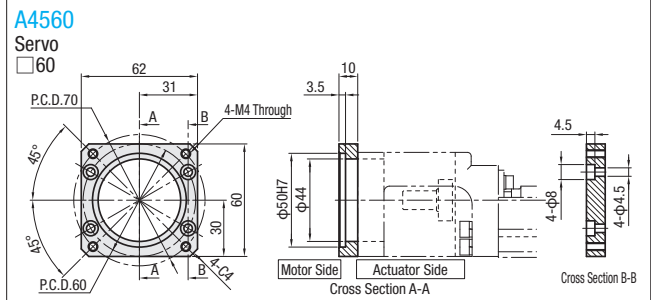
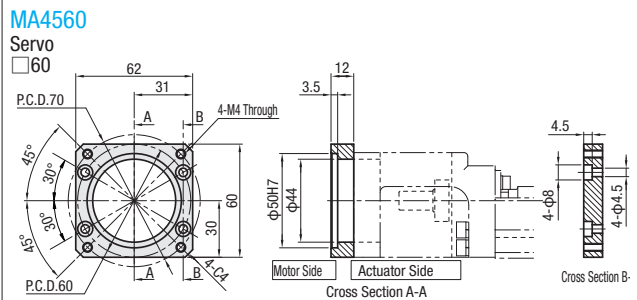
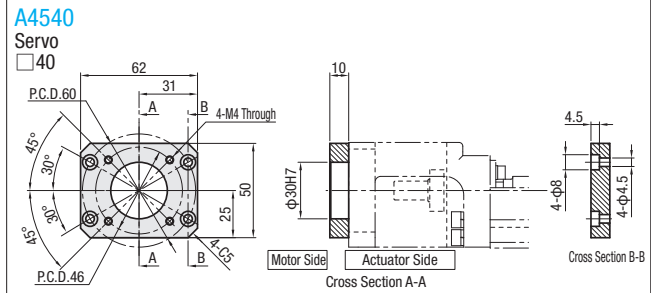
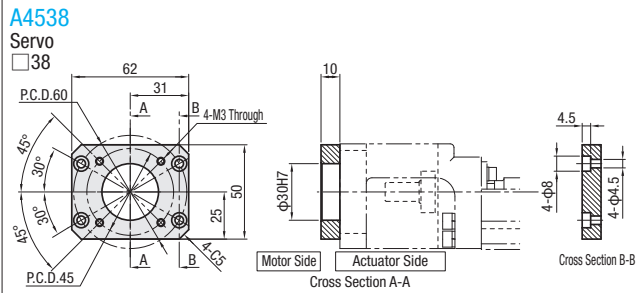


Provides long term maintenance-free operation.
 For details, see PA-004

Motor Adapter Plates / Motor Adapter Centering Tools For Single Axis Actuators SX45

Motor Adapter Plate Dimensional Drawing

Note: Note that the Motor Adapter protrudes beyond the rail at * marked area.



Part Number	D	Applicable Adapter Plate	d	D1	d1	L	T	ℓ
JIGLX45	30	A4538/A4540/T4556.4	15	25	10	62	22	20
	36	T4560				62	22	20
	50	A4560/MA4560/T4585				61.5	13.5	

Ordering Example
Part Number - D
JIGLX45 - 30

Sensor Sets For Single Axis Actuators SX45 (Options)

Proximity Sensor (SUNX) - Set Part Specification

SX Part Number	Code (□ is Sensor Qty) * Up to 3 Sensors	Sensor Type/Qty.		Sensor Rail		Sensor (* Qty per Sensor Included)		Sensor Flag	
		GX-F12A (ON when near)	GX-F12B (ON when away)	Rail (1 pc.)	Mounting Screw (Pitch +1 pc.)	Sensor Mounting Screw (1 pc.)	Mounting Nut (1 pc.)	Sensor Flag (1 pc.)	Sensor Flag Mounting Screw
SX45□□-B□	XA□	□ pc(s).	-	SENC3□H	SCB3-5	CBSST3-8	LBNR3	Dedicated	Flat Head Machine Screw M3-5 (1 pc.)
SX45□□-S□	XB□	-	□ pc(s).						
SX45□□-C-B□	FA□	□ pc(s).	-						
SX45□□-C-S□	FB□	-	□ pc(s).						
	FAS□	□ pc(s).	-						
SX45□□-B□	FBS□	-	□ pc(s).						
	XW1	1 pc.	1 pc.						
	XW2	2 pcs.	2 pcs.						
SX45□□-S□	XW3	2 pcs.	1 pc.						
	FW1	1 pc.	1 pc.						
	FW2	1 pc.	2 pcs.						
SX45□□-C-B□	FW3	2 pcs.	1 pc.						
	FWS1	1 pc.	1 pc.						
	FWS2	1 pc.	2 pcs.						
SX45□□-C-S□	FWS3	2 pcs.	1 pc.						

Photo Sensor (SUNX) - Set Part Specification

SX Part Number	Code (□ is the number of Sensors) * Up to 3 Sensors	Photo Sensor	Sensor Rail		Sensor (* Qty per Sensor Included)				Sensor Flag	
			Rail (1 pc.)	Mounting Screw (Pitch +1 pc.)	Sensor Bracket	Bracket Mounting Screw Nut	Sensor Mounting Screw	Sensor Mounting Washer	Sensor Flag (1 pc.)	Sensor Flag Mounting Screw
SX45□□-B□	SP□	PM-L25	SENC3□H	SCB3-5	Dedicated	SCB3-5 (2 pcs.) LBNR3 (2 pcs.)	SCB2-6 (2 pcs.)	M2 Small Flat Washer (2 pcs.) M2 Spring Washer (2 pcs.)	Dedicated	Flat Head Machine Screw M3-5 (2 pcs.)
SX45□□-S□	MP□								Dedicated	SCB3-6 (2 pcs.)
SX45□□-C-B□	MPS□								Dedicated	SCB3-6 (2 pcs.)
SX45□□-C-S□									Dedicated	SCB3-6 (2 pcs.)

Photo Sensor (OMRON) - Set Part Specification

SX Part Number	Code (□ is the number of Sensors) * Up to 3 Sensors	Photo Sensor	Sensor Rail		Sensor (* Qty per Sensor Included)				Sensor Flag	
			Rail (1 pc.)	Mounting Screw (Pitch +1 pc.)	Sensor Bracket	Bracket Mounting Screw Nut	Sensor Mounting Screw	Sensor Mounting Washer	Sensor Flag (1 pc.)	Sensor Flag Mounting Screw
SX45□□-B□	OP□	EE-SX951-R1M	SENC3□H	SCB3-5	Dedicated	SCB3-5 (2 pcs.) LBNR3 (2 pcs.)	SCB3-6 (2 pcs.)	M3 Small Flat Washer (2 pcs.)	Dedicated	Flat Head Machine Screw M3-5 (2 pcs.)
SX45□□-S□	EP□								Dedicated	SCB3-6 (2 pcs.)
SX45□□-C-B□	EP□								Dedicated	SCB3-6 (2 pcs.)
SX45□□-C-S□	EPS□								Dedicated	SCB3-6 (2 pcs.)

* Sensors are not sold separately.

	Part Number	-	Block Qty.	-	Motor Adapter Plates	-	Base Length (L)	-	Code
	SX4510	-	B1	-	A4540	-	590	-	XW1
	SX4520C	-	B1	-	A4560	-	340	-	EP2

Proximity Sensor Type Installation Drawings - SUNX

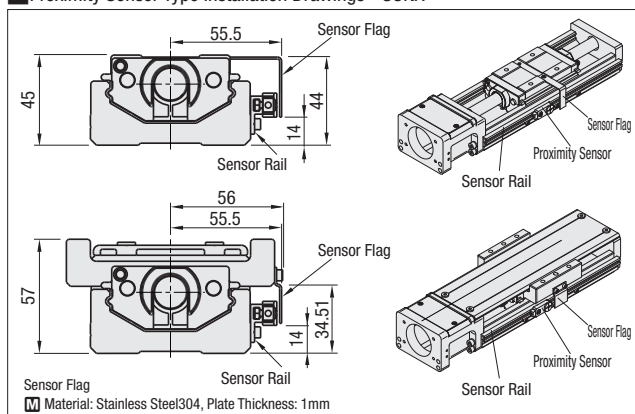
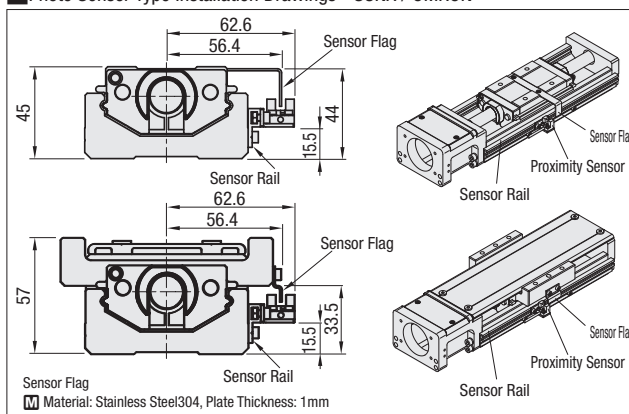


Photo Sensor Type Installation Drawings - SUNX / OMRON



Cautions

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- ☞ Please access each sensor manufacturer's website for the specifications of sensors in use..