

OPERATING MANUAL

Sensor set for exclusive use of EAS Series
PAES-S-2X/Y, 4X/Y, 6X/Y (NPN output)
PAES-SY-2X/Y, 4X/Y, 6X/Y (PNP output)

Thank you for purchasing an Oriental Motor product. This manual describes product handling procedures and safety precautions.

- Please read it thoroughly to ensure safe operation.
- Always keep the manual where it is readily available.

Checking the product

Combination list

Sensor set model	Applicable product	Sensor output	Photomicrosensor model
PAES-S-2□	EASM2	NPN	EE-SX674A (OMRON Corporation)
PAES-S-4□	EASM4		
PAES-S-6□	EASM6		
PAES-SY-2□	EASM2	PNP	EE-SX674R (OMRON Corporation)
PAES-SY-4□	EASM4		
PAES-SY-6□	EASM6		

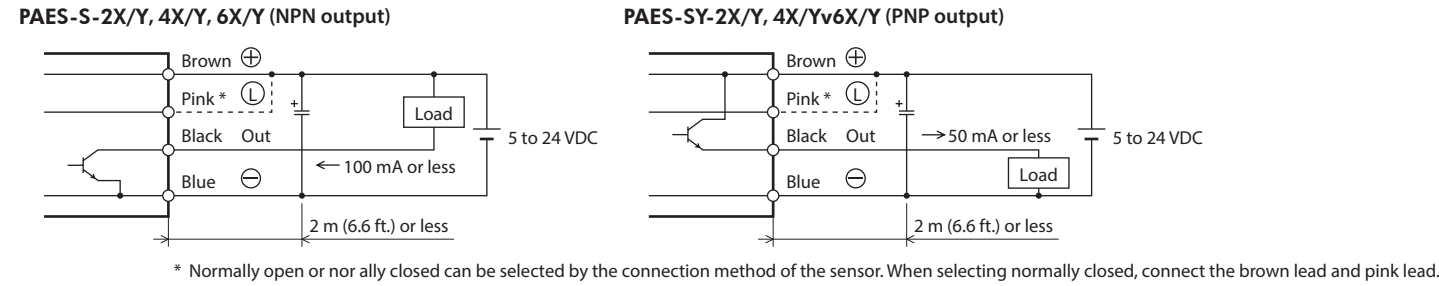
The box (□) in the model indicates **X** (X-table type) or **Y** (Y-table type).

Items included in sensor set

Verify that the items listed below are included. Report any missing or damaged items to the Oriental Motor sales office from which you purchased the product.

- Sensor.....3 pcs.
- Flexible cable with connector [2 m (6.6 ft.)].....3 pcs.
- Sensor mounting bracket.....3 pcs.
- Shielding plate.....1 pc.
- Hexagonal socket head screw (M3)12 pcs.
- Hexagonal socket head screw (M2.5).....2 pcs.
- Hexagonal nut (M3)6 pcs.

Connection example (when the sensor is of "normally open")



To extend the wiring length of the sensor, insert the electrolytic capacitor (10 μF, 50 V) to the position of 2 m (6.6 ft.) or less from the sensor.

Installation

CAUTION

Do not install the sensor set while the power is being supplied. Doing so may result in injury or damage to equipment.

Note

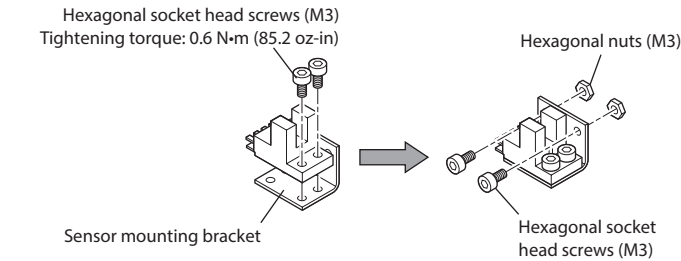
- Be sure to install the sensor and shielding plate in the direction shown in the figure. Installing them in the wrong direction may disable sensor detection or cause the shielding plate to contact the sensor, resulting in sensor damage.
- Do not connect or disconnect the flexible cable with connector while the power is supplied. It may damage the sensor.

When installing the sensor mounting bracket and shielding plate to the motorized linear slide, be sure to use the included screws.

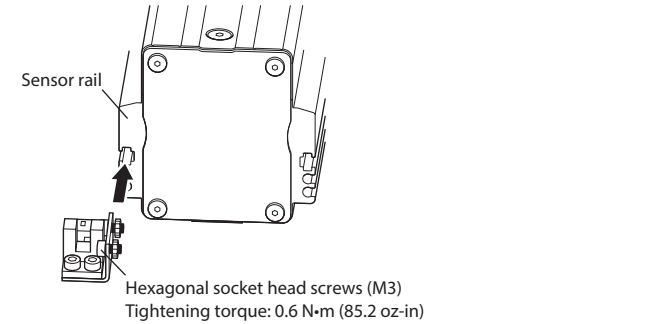
When removing the flexible cable with connector from the sensor, do not pull the cable.

Installing the sensor

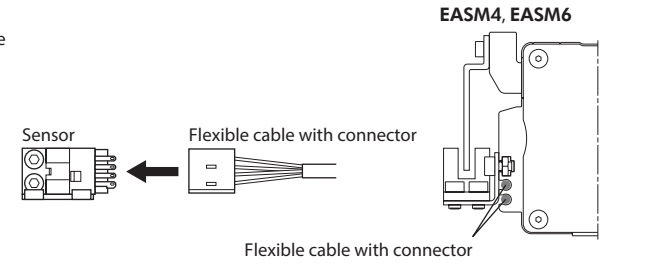
1. Secure the sensor to sensor mounting bracket with the hexagonal socket head screws (M3).
2. Attach the hexagonal socket head screws and hexagonal nuts (both M3) to the sensor mounting bracket.
Do not tighten because the hexagonal nuts will be inserted into the sensor rail.



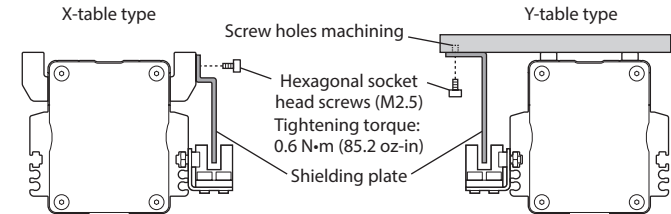
3. Insert the hexagonal nuts into the sensor rail and tighten the hexagonal socket head screws.



4. Connect the flexible cable with connector to the sensor.
With the **EASM4** and **EASM6** types, the flexible cable with connector can be stored in the sensor rail.

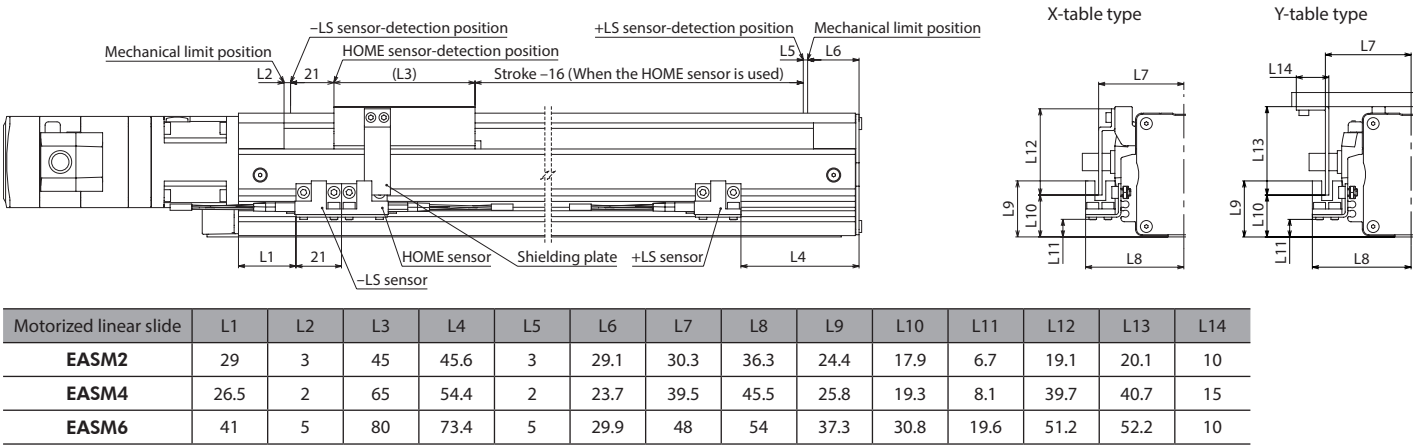


5. Secure the shielding plate.
X-table type: Install the shielding plate to the screw holes on the side of the table with the hexagonal socket head screws (M2.5).
Y-table type: Provide screw holes on the load by a customer, and install the shielding plate to the load with the hexagonal socket head screws (M2.5).

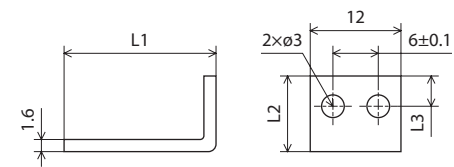


Recommended sensor installation position (Unit: mm)

- When the stroke is 50 mm, two sensors can be installed.
- The sensors and shielding plate can be installed to the opposite side in the figure.
- The following figure is an installation example of the X-table type. The sensor installation positions are the same even in the Y-table type.



Dimensions for shielding plate for Y-table type (Unit: mm)



Motorized linear slide	L1	L2	L3
EASM2	20.1±0.2	10	4
EASM4	40.7±0.2	15	3.5
EASM6	52.2±0.2	10	4

Install the shielding plate so that the it does not contact the sensor.

If the included shielding plate contacts the sensor, provide the shielding plate by a customer.

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Please contact your nearest Oriental Motor office for further information.

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