

MS-AJ SERIES

Related Information

■ General terms and conditions..... F-3
 ■ CX-400 / CX-440 P.245~ / P.319~

■ LS-400 P.213~
 ■ EX-40 / EZ-10 P.313~ / P.891~

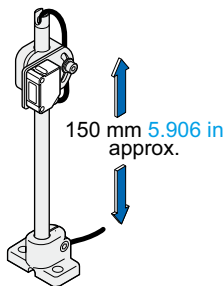


Eight types of mounting stand enable installation of sensors, fibers, and reflectors at any desired position

Easy adjustment of sensing position

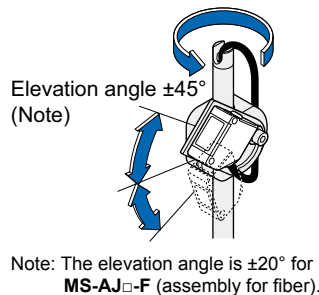
Even after mounting a sensor, you can adjust the sensor easily.

Flexible height adjustment



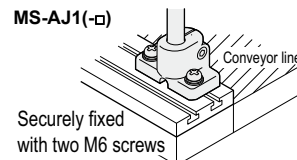
Flexible angle adjustment

Swivel: 360° revolution

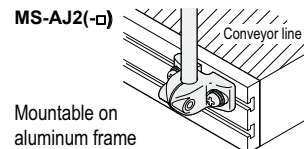


Mountable on vertical or horizontal plane

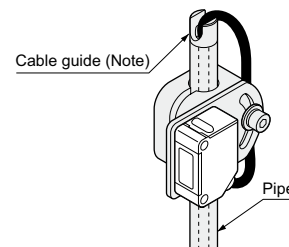
Mounting on horizontal plane



Mounting on vertical plane



Cable can be neatly threaded into pipe



Note: Do not thread the fiber cable into the pipe in case of MS-AJ□-F (assembly for fiber).

Eight models

MS-AJ□ (Basic assembly)

It is used to mount CX-400/440, LS-400, EX-40 and EZ-10 series sensors, and the RF-210 reflector.



MS-AJ1 MS-AJ2

MS-AJ□-A (Lateral arm assembly)

A lateral arm is added to the MS-AJ□ basic assembly. Sensing is possible from above an assembly line.



MS-AJ1-A MS-AJ2-A

MS-AJ□-M (Assembly for reflector)

The MS-AJ□ basic assembly is modified to mount a reflector. It can be used for RF-220 and RF-230 reflector.



MS-AJ1-M MS-AJ2-M

MS-AJ□-F (Assembly for fiber)

The sensor mounting bracket of MS-AJ□-A is replaced with a fiber mounting bracket. It can be used with FD-L51, FD-L52, FD-L53, FD-L54 and M3, M4 or M6 threaded head fiber.



MS-AJ1-F MS-AJ2-F

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LASER MARKERS

PLC

HUMAN MACHINE INTERFACES

ENERGY MANAGEMENT SOLUTIONS

FA COMPONENTS

MACHINE VISION SYSTEMS

UV CURING SYSTEMS

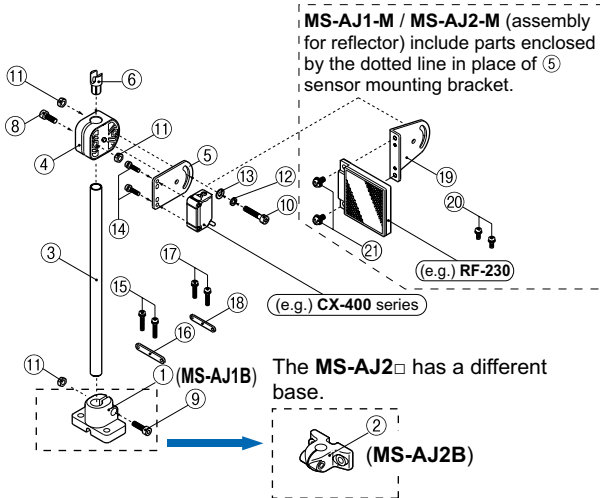
Sensor Mounting Stand

Sensor Checker

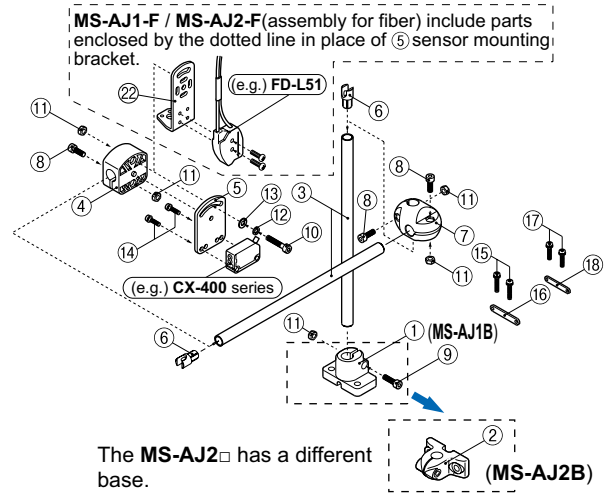
Sensor Controller

Other Products

MS-AJ

STRUCTURE**MS-AJ1, MS-AJ2, MS-AJ1-M, MS-AJ2-M**

Note: The cable guide (⑥ in the figure) is not included in the assembly for reflector (**MS-AJ-M**).

MS-AJ1-A, MS-AJ2-A, MS-AJ1-F, MS-AJ2-F

Note: Adjust the arm joint (⑦ in the figure) by loosening the M4 (length 12 mm 0.472 in) hexagon-socket-head bolts (⑧ in the figure) in two places. This way you can adjust the arm joint more smoothly.

No.	Designation	Type Model No.	Assembly sets				Components								
			MS-AJ1 MS-AJ2 (Basic assembly)	MS-AJ1-A MS-AJ2-A (Lateral arm assembly)	MS-AJ1-M MS-AJ2-M (Assembly for reflector)	MS-AJ1-F MS-AJ2-F (Assembly for fiber)	MS-AJS (Sensor mounting unit)	MS-AJR (Reflector mounting unit)	MS-AJ-R1 (Reflector mounting bracket)	MS-AJD (Fiber mounting unit)	MS-FD-1 (Fiber mounting bracket)	MS-AJL (Arm joint unit)	MS-AJ1B MS-AJ2B (Base unit)	MS-AJG (Cable guide)	MS-AJP (Arm (Pipe))
①	Base for horizontal mounting (Accessory for MS-AJ1)		1	1	1	1	—	—	—	—	—	—	1	—	—
②	Base for vertical mounting (Accessory for MS-AJ2)		1	1	1	1	—	—	—	—	—	—	1	—	—
③	Arm (Pipe)		1	2	1	2	—	—	—	—	—	—	—	—	1
④	Attachment		1	1	1	1	1	1	—	1	—	—	—	—	—
⑤	Sensor mounting bracket		1	1	—	—	1	—	—	—	—	—	—	—	—
⑥	Cable guide		1	2	—	2	—	—	—	—	—	—	—	1	—
⑦	Arm joint		—	1	—	1	—	—	—	—	—	1	—	—	—
⑧	M4 (length 12 mm 0.472 in) hexagon-socket-head bolt (DriLube applied product)		1	3	1	3	1	1	—	1	—	2	—	—	—
⑨	M4 (length 15 mm 0.591in) hexagon-socket-head bolt (DriLube applied product)		1	1	1	1	—	—	—	—	—	—	1	—	—
⑩	M4 (length 22 mm 0.866 in) hexagon-socket-head bolt		1	1	1	1	1	1	—	1	—	—	—	—	—
⑪	M4 nut		3	5	3	5	2	2	—	2	—	2	1	—	—
⑫	M4 spring washer		1	1	1	1	1	1	—	1	—	—	—	—	—
⑬	M4 plain washer		1	1	1	1	1	1	—	1	—	—	—	—	—
⑭	M3 (length 14 mm 0.551 in) screw with washers for CX-400/440, LS-400 and EZ-10 series		2	2	—	—	2	—	—	—	—	—	—	—	—
⑮	M3 (length 18 mm 0.709 in) screw with washers for EQ-20 series (Note 2)		2	2	—	—	2	—	—	—	—	—	—	—	—
⑯	Auxiliary mounting plate for EQ-20 series (Note 2)		1	1	—	—	1	—	—	—	—	—	—	—	—
⑰	M3 (length 16 mm 0.630 in) screw with washers for EX-40 series		2	2	—	—	2	—	—	—	—	—	—	—	—
⑱	Auxiliary mounting plate for EX-40 series		1	1	—	—	1	—	—	—	—	—	—	—	—
⑲	Reflector mounting bracket		—	—	1	—	—	1	1	—	—	—	—	—	—
⑳	M3 (length 8 mm 0.315 in) screw with washers for RF-220		—	—	2	—	—	2	2	—	—	—	—	—	—
㉑	M4 (length 8 mm 0.315 in) screw with washers for RF-230		—	—	2	—	—	2	2	—	—	—	—	—	—
㉒	Fiber mounting bracket		—	—	—	1	—	—	—	1	1	—	—	—	—

Notes: 1) The numbers shown in the table above indicate the quantities of the respective parts. 2) The **EQ-20** series were discontinued in December 2005.

ORDER GUIDE

Type	Appearance	Model No.	Applicable sensor, reflector and fiber
Basic assembly	Horizontal mounting type	MS-AJ1	CX-400/440 series LS series EQ-20 series (Note) EX-40 series EZ-10 series RF-210 (Reflector)
	Vertical mounting type	MS-AJ2	
Lateral arm assembly	Horizontal mounting type	MS-AJ1-A	RF-220 (Reflector) RF-230 (Reflector)
	Vertical mounting type	MS-AJ2-A	
Assembly for reflector	Horizontal mounting type	MS-AJ1-M	FD-L51 (Fiber) FD-L52 (Fiber) FD-L53 (Fiber) FD-L54 (Fiber) M3, M4 and M6 threaded head fibers
	Vertical mounting type	MS-AJ2-M	
Assembly for fiber	Horizontal mounting type	MS-AJ1-F	
	Vertical mounting type	MS-AJ2-F	

Note: The **EQ-20** series were discontinued in December 2005.

Individual components are also available as follows

Designation	Appearance	Model No.
Sensor mounting unit		MS-AJS
Reflector mounting unit		MS-AJR
Reflector mounting bracket		MS-AJ-R1
Fiber mounting unit		MS-AJD
Fiber mounting bracket		MS-FD-1
Arm joint unit		MS-AJL
Base unit (Horizontal mounting type)		MS-AJ1B
Base unit (Vertical mounting type)		MS-AJ2B
Cable guide		MS-AJG
Arm (Pipe)		MS-AJP

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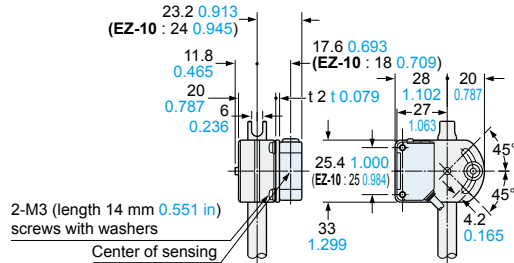
DIMENSIONS (Unit: mm in)

The CAD data can be downloaded from our website.

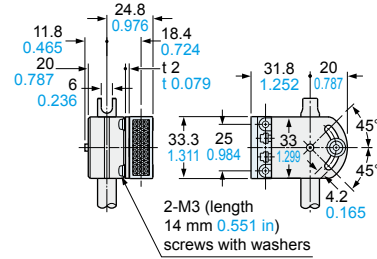
MS-AJ1 MS-AJ2

Basic assembly

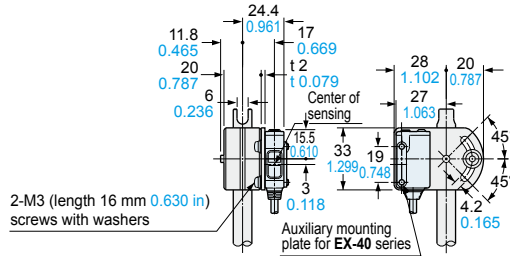
Assembly dimensions with CX-400/440 series, LS-400 series, EZ-10 series (Mounting part only)



Assembly dimensions with RF-210 (Reflector) (Mounting part only)

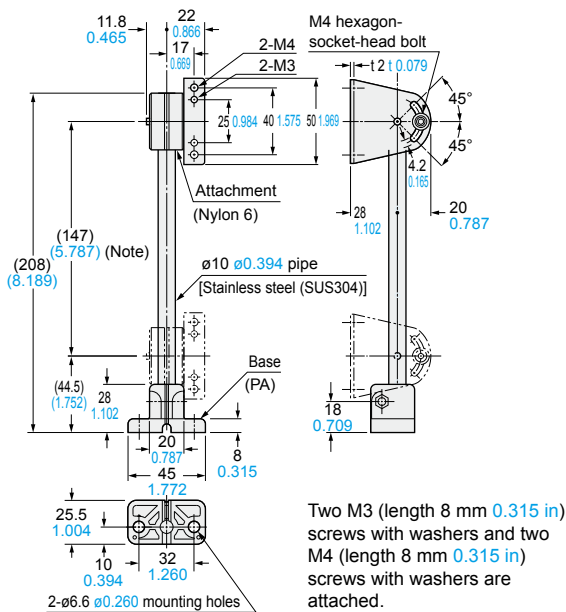


Assembly dimensions with EX-40 series (Mounting part only)



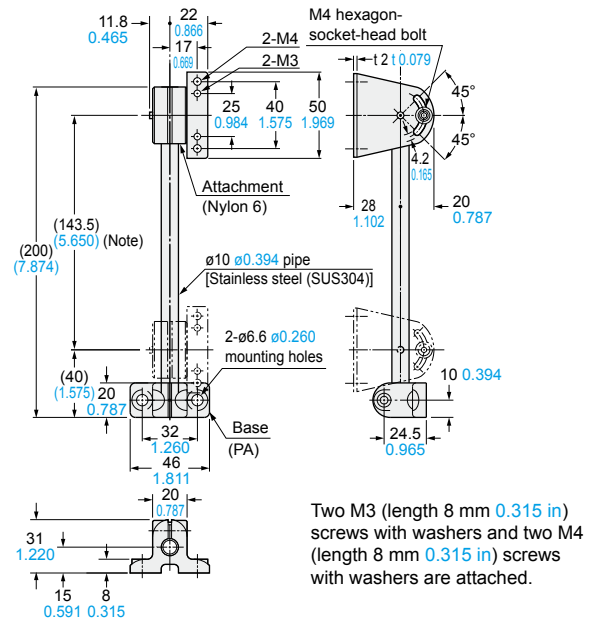
MS-AJ1-M

Assembly for reflector



MS-AJ2-M

Assembly for reflector



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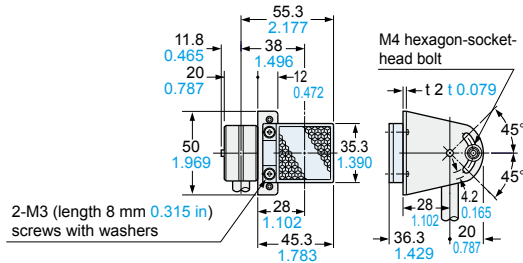
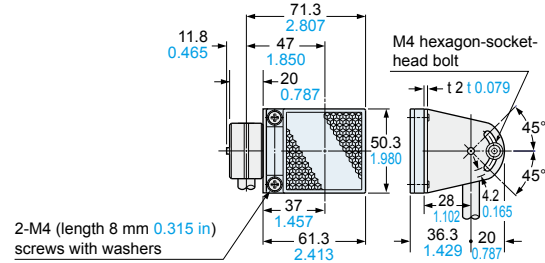
MS-AJ

DIMENSIONS (Unit: mm in)

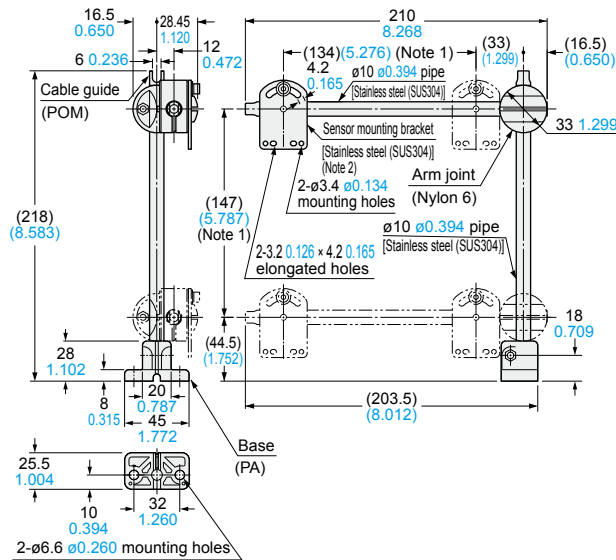
The CAD data can be downloaded from our website.

MS-AJ1-M MS-AJ2-M

Assembly for reflector

**Assembly dimensions with RF-220 (Reflector)
(Mounting part only)****Assembly dimensions with RF-230 (Reflector)
(Mounting part only)****MS-AJ1-A**

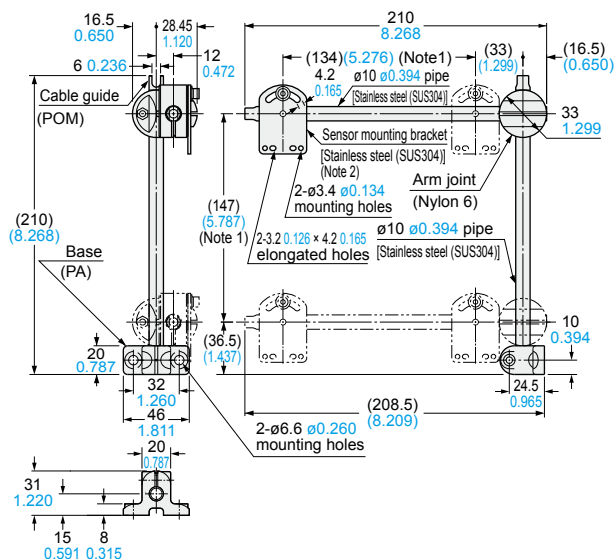
Lateral arm assembly



Notes: 1) The dimensions in the brackets indicate the adjustable range of the movable part.

2) Refer to **MS-AJ1 / MS-AJ2** (basic assembly) for the assembly diagram with the sensor mounting bracket, sensor or reflector.**MS-AJ2-A**

Lateral arm assembly



Notes: 1) The dimensions in the brackets indicate the adjustable range of the movable part.

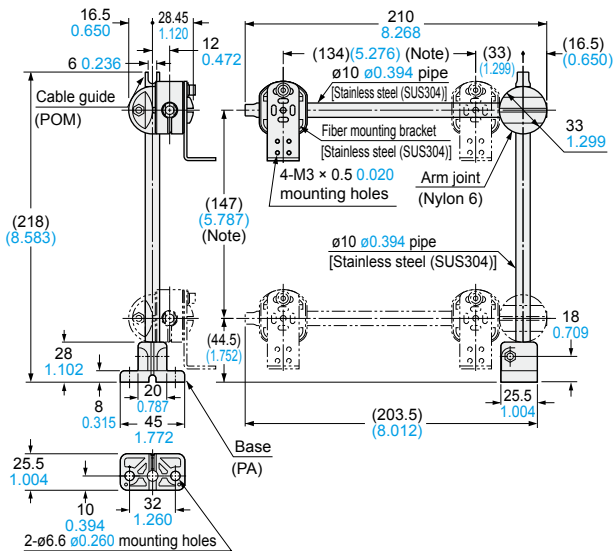
2) Refer to **MS-AJ1 / MS-AJ2** (basic assembly) for the assembly diagram with the sensor mounting bracket, sensor or reflector.

DIMENSIONS (Unit: mm in)

The CAD data can be downloaded from our website.

MS-AJ1-F

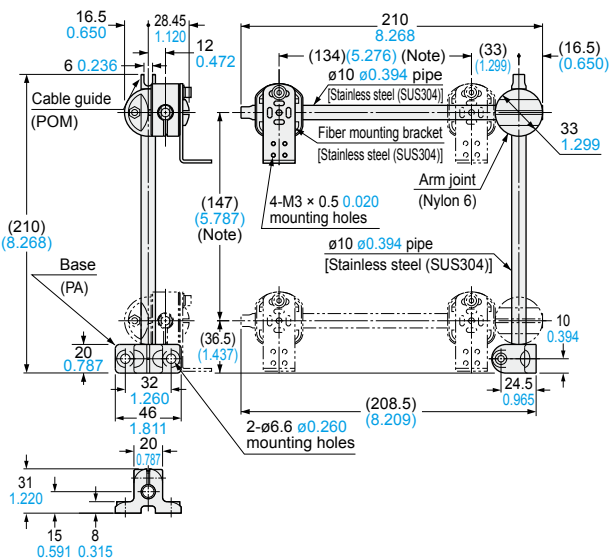
Assembly for fiber



Note: The dimensions in the brackets indicate the adjustable range of the movable part.

MS-AJ2-F

Assembly for fiber

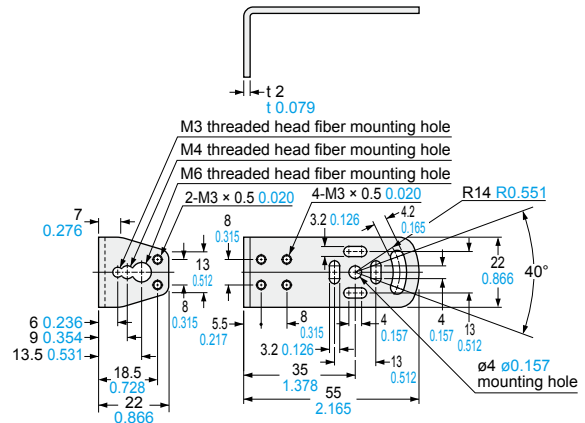


Note: The dimensions in the brackets indicate the adjustable range of the movable part.

MS-AJ1-F MS-AJ2-F

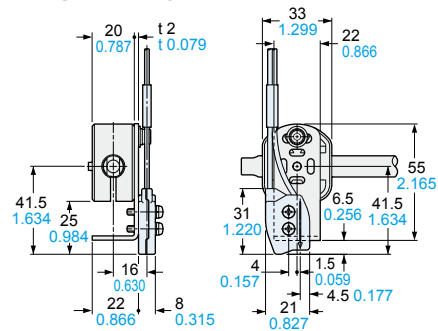
Assembly for fiber

Fiber mounting bracket / MS-FD-1

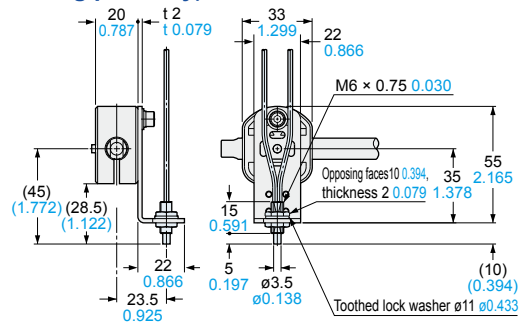


Material: Stainless steel (SUS304)

Assembly dimensions with FD-L51 (Mounting part only)



Assembly dimensions with FD-FM2 (Mounting part only)



Note: The above diagram is in case of M6 threaded head fiber.

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