

FIBER
SENSORSLASER
SENSORSPHOTOELECTRIC
SENSORSMICRO
PHOTOELECTRIC
SENSORSAREA
SENSORSLIGHT
CURTAINSPRESSURE /
FLOW
SENSORSINDUCTIVE
PROXIMITY
SENSORSPARTICULAR
USE SENSORSSENSOR
OPTIONSSIMPLE
WIRE-SAVING
UNITSWIRE-SAVING
SYSTEMSMEASUREMENT
SENSORSSTATIC CONTROL
DEVICES

ENDOSCOPE

LASER
MARKERSPLC /
TERMINALSHUMAN MACHINE
INTERFACESENERGY CONSUMPTION
VISUALIZATION
COMPONENTS

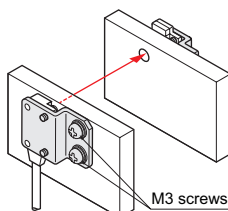
FA COMPONENTS

MACHINE VISION
SYSTEMSUV CURING
SYSTEMS**MOUNTING / SIZE****Mountable with M3 screws**

Non-corrosive stainless steel type mounting bracket is also available.

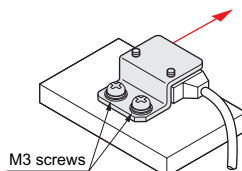
- **MS-EX10-1**
[Cold rolled carbon steel (SPCC)]

MS-EX10-11
[Stainless steel (SUS304)]
(mounting bracket for the front
sensing type)



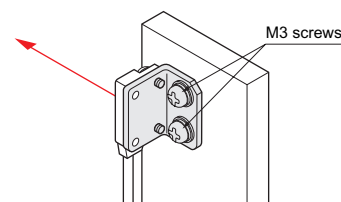
- **MS-EX10-2**
[Cold rolled carbon steel (SPCC)]

MS-EX10-12
[Stainless steel (SUS304)]
(mounting bracket for the side
sensing type)



- **MS-EX10-3**
[Cold rolled carbon steel (SPCC)]

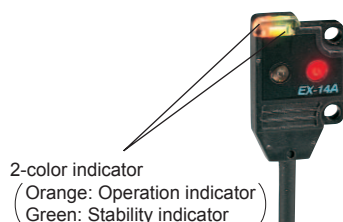
MS-EX10-13
[Stainless steel (SUS304)]
(L-shaped mounting bracket)

**Red beam makes beam alignment easy**

The red LED beam projected from the emitter helps you to align the sensor heads.

FUNCTIONS**Bright 2-color indicator**

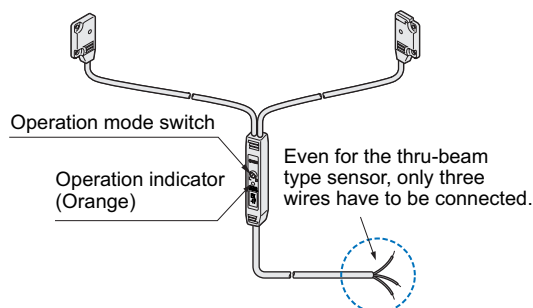
A convenient 2-color indicator has been incorporated in the miniature body.



2-color indicator
(Orange: Operation indicator)
(Green: Stability indicator)

VARIETIES**Operation mode switch****EX-15□/17□**

Thru-beam type sensor incorporated with an operation mode switch on the bifurcation is also available. It helps you to test the operability before start-up.

**OTHERS****Less resources used ***

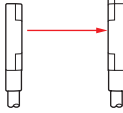
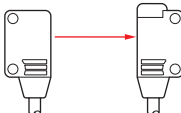
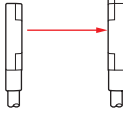
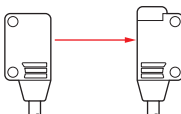
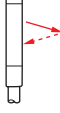
Based on environmental considerations, simplified packaging is used in order to reduce waste.

In addition, the bag is made from polyethylene which produces no toxic gases even when burned.

* Effective from production in October 2010.

Selection
GuideAmplifier
Built-inPower Supply
Built-inAmplifier-
separated**CX-400****EX-10****EX-20****EX-30****EX-40****CX-440****EQ-30****EQ-500****MQ-W****RX-LS200****RX****RT-610**

ORDER GUIDE

Type	Appearance	Sensing range	Model No. (Note 2)	Output operation	Output
NPN output	Thru-beam With operation mode switch on the bifurcation		150 mm 5.906 in	EX-11A	Light-ON
				EX-11B	Dark-ON
			500 mm 19.685 in	EX-13A	Light-ON
				EX-13B	Dark-ON
			1 m 3.281 ft	EX-19A	Light-ON
				EX-19B	Dark-ON
	Side sensing With operation mode switch on the bifurcation		150 mm 5.906 in	EX-15	Switchable either Light-ON or Dark-ON
			500 mm 19.685 in	EX-17	
			150 mm 5.906 in	EX-11EA	Light-ON
				EX-11EB	Dark-ON
			500 mm 19.685 in	EX-13EA	Light-ON
				EX-13EB	Dark-ON
PNP output	Thru-beam		150 mm 5.906 in	EX-11A-PN	Light-ON
				EX-11B-PN	Dark-ON
			500 mm 19.685 in	EX-13A-PN	Light-ON
				EX-13B-PN	Dark-ON
			1 m 3.281 ft	EX-19A-PN	Light-ON
				EX-19B-PN	Dark-ON
	Side sensing		150 mm 5.906 in	EX-11EA-PN	Light-ON
				EX-11EB-PN	Dark-ON
			500 mm 19.685 in	EX-13EA-PN	Light-ON
				EX-13EB-PN	Dark-ON
	Convergent reflective (Diffused beam type)		2 to 25 mm 0.079 to 0.984 in (Note 1) (Convergent point: 10 mm 0.394 in)	EX-14A-PN	Light-ON
				EX-14B-PN	Dark-ON

NOTE: Mounting bracket is not supplied with the sensor. Please select from the range of optional sensor mounting brackets (six types).

- Notes: 1) The sensor does not detect even a specular background if it is separated by 100 mm 3.937 in or more. (However, the background should be directly opposite. A spherical or curved background may be detected.)
 2) The model No. with "P" shown on the label affixed to the thru-beam type sensor is the emitter, "D" shown on the label is the receiver.
 (e.g.) Emitter of EX-11A: EX-11P, Receiver of EX-11A: EX-11AD

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VISUALIZATION
COMPONENTSFA
COMPONENTSMACHINE
VISION
SYSTEMSUV
CURING
SYSTEMSSelection
GuideAmplifier
Built-inPower Supply
Built-inAmplifier-
separated

CX-400

EX-10

EX-20

EX-30

EX-40

CX-440

EQ-30

EQ-500

MQ-W

RX-LS200

RX

RT-610