

EX-10 SERIES Ver.2

Related Information

■ General terms and conditions..... F-7

■ Sensor selection guide..... P.271~

■ Glossary of terms / General precautionsP.1455~ / P.1458~

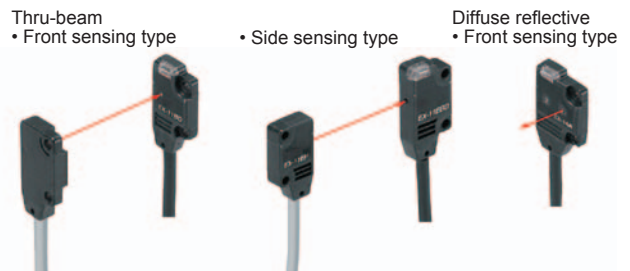
■ Korea's S-mark..... P.1506


panasonic.net/id/pidsx/global
**Amplifier built-in extraordinarily small and slim size****Smallest body, just 3.5 mm 0.138 in thick**

It can be mounted in a very small space as its size is just W10 × H14.5 × D3.5 mm
W0.394 × H0.571 × D0.138 in
 (thru-beam, front sensing type).

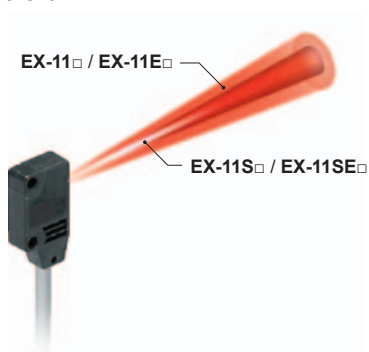
**Flexible mounting**

The diffuse reflective type sensor is front sensing and is so thin that it gives an impression of being just pasted on the mounting base. The thru-beam type is available as front sensing type, as well as, side sensing type, allowing flexible mounting.

**A wide variety of narrow-beam type! Light diffusion is approx. 1/2 of standard type.****EX-□S□**

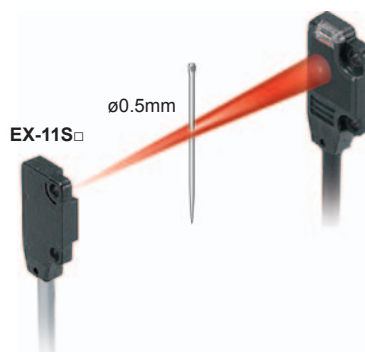
Less interference with no slit, narrow-pitch can be set.

The pitch of installation is 1/2 of conventional models, so that the close-installation is possible. No cost is necessary to purchase or install a slit.



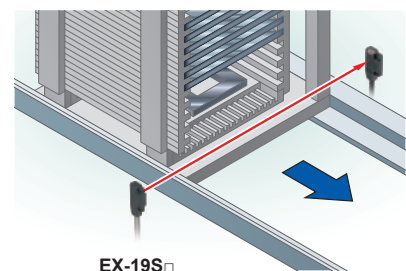
Possible to sense a minute object less than ø0.5 mm ø0.039 in with no slit.

The series is applicable to sense a minute object without any cost.



Long sensing range of 1 m 3.281 ft with narrow beam

A long 1 m 3.281 ft sensing range is possible with narrow beam.



CX-400

CY-100

EX-10

EX-20

EX-30

EX-40

CX-440

EQ-30

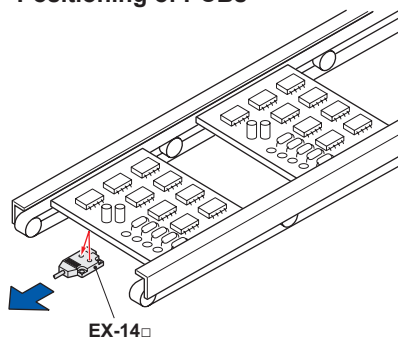
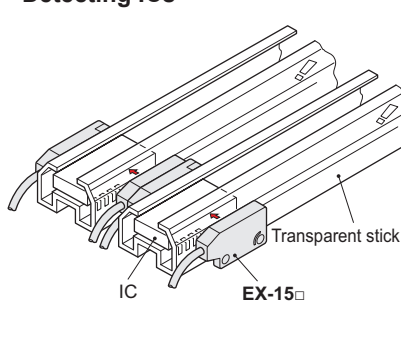
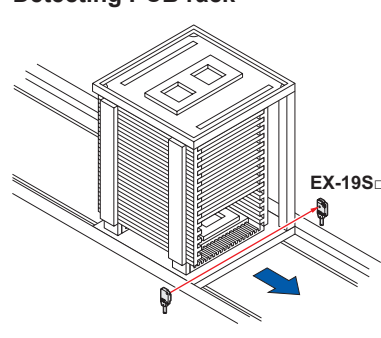
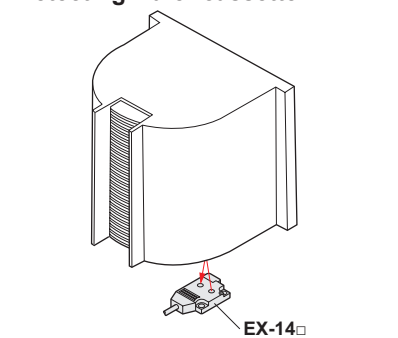
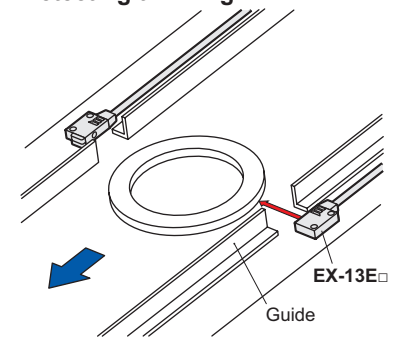
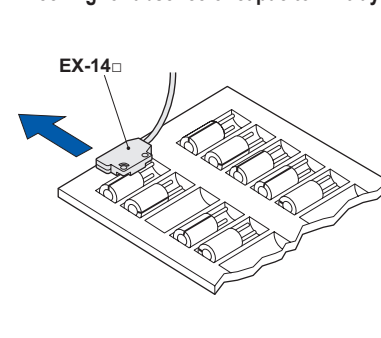
EQ-500

MQ-W

RX-LS200

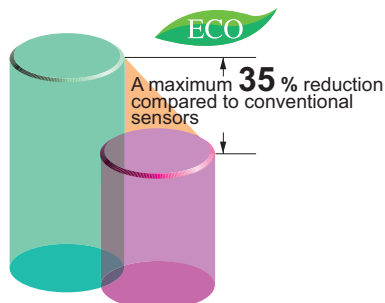
RX

RT-610

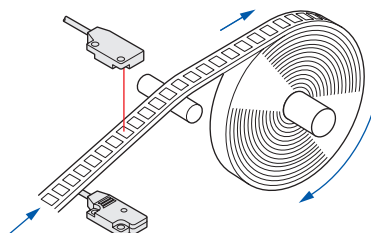
APPLICATIONS**Positioning of PCBs****Detecting ICs****Detecting PCB rack****Detecting wafer cassette****Detecting thin ring****Checking for absence of capacitor in tray****BASIC PERFORMANCE****Electric power saving ***

The EX-10 series achieves reductions in power consumption of up to 65 %. These sensors contribute to environmental friendliness.

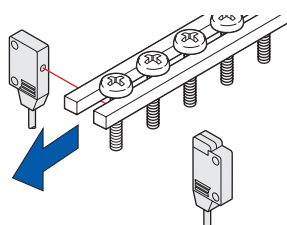
* Effective from production in October 2010.

**High-speed response time: 0.5 ms**

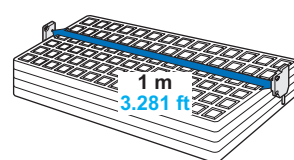
The sensor is suitable for detecting small and high-speed traveling objects.

**Minimum sensing object: $\phi 1$ mm $\phi 0.039$ in EX-11(E)□, EX-15(E)□**

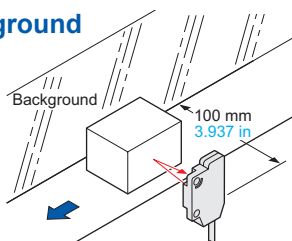
EX-11□, EX-11E□, EX-15 and EX-15E are incorporated with $\phi 1$ mm $\phi 0.039$ in slit masks so that $\phi 1$ mm $\phi 0.039$ in, or more, object can be detected. Hence, they are suitable for precise positioning or small parts detection.

**Long sensing range: 1 m 3.281 ft EX-19(E)□**

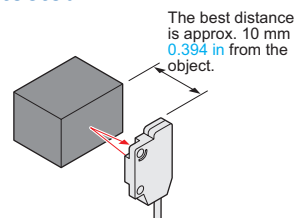
A sensing range of 1 m 3.281 ft has been realized with a slim size of just 3.5 mm 0.138 in. It can be used to detect even wide IC trays.

**Background suppression****Hardly affected by background**

Even a specular background separated by 100 mm 3.937 in, or more, is not detected. (However, the background should be directly opposite. A spherical or curved background may be detected.)

**Black object reliably detected**

It can reliably detect dark color objects since it is convergent reflective type.



FIBER SENSORS

LASER SENSORS

PHOTOELECTRIC SENSORS

MICRO PHOTOELECTRIC SENSORS

AREA SENSORS

LIGHT CURTAINS / SAFETY COMPONENTS

PRESSURE / FLOW SENSORS

INDUCTIVE PROXIMITY SENSORS

PARTICULAR USE SENSORS

SENSOR OPTIONS

SIMPLE WIRE-SAVING UNITS

WIRE-SAVING SYSTEMS

MEASUREMENT SENSORS

STATIC ELECTRICITY PREVENTION DEVICES

LASER MARKERS

PLC

HUMAN MACHINE INTERFACES

ENERGY CONSUMPTION VISUALIZATION COMPONENTS

FA COMPONENTS

MACHINE VISION SYSTEMS

UV CURING SYSTEMS

Selection Guide

Amplifier Built-in

Power Supply Built-in

Amplifier-separated

CX-400

CY-100

EX-10

EX-20

EX-30

EX-40

CX-440

EQ-30

EQ-500

MQ-W

RX-LS200

RX

RT-610