

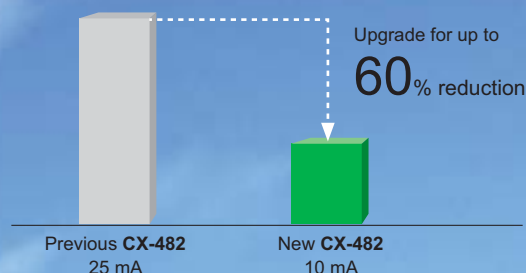


Upgrade 1

Reducing environmental burdens further

Up to 60% less power consumption

The **CX-400** series achieves reductions in power consumption of up to 60%, averaging 44% reduction when upgrading due to its unique design. These sensors reduce carbon emissions and contribute to environmental friendliness.



Contributing to reduced carbon dioxide emissions

Electricity consumed by the **CX-400** series has been reduced on average 10.5 mA. Calculating 8 hours/day, 260 days (operating 5 days/week) for a total of 2,080 hours/year leads to:

The **CX-400** contributes

Approx. 84.6 t annually in carbon dioxide reductions to the world

Upgrade 2

Stronger noise resistance

Stronger inverter countermeasures

The **CX-400** has a high noise resistance then its previous model. By incorporating an inverter countermeasure circuit that appropriately shifts with peak wavelength, the sensor now resists high-frequency noise from high-voltage inverter motors and inverter lights more effectively.

Upgrade 3

Stronger output short-circuit resistance

Stronger inverse wiring connection protection

Strengthening the output circuit inverse polarity protection prevents sensor damage caused by mistaken output or power supply wiring.

High Performance

High performance
For many applications



Thanks to its unique optics and specialized design, the **CX-400**'s electronic circuits allows for consistent sensing of minute 0.4 mm **0.016 in** (the thickness of a business card) differences or 10 μ m **0.394 mil** ultra-thin film.

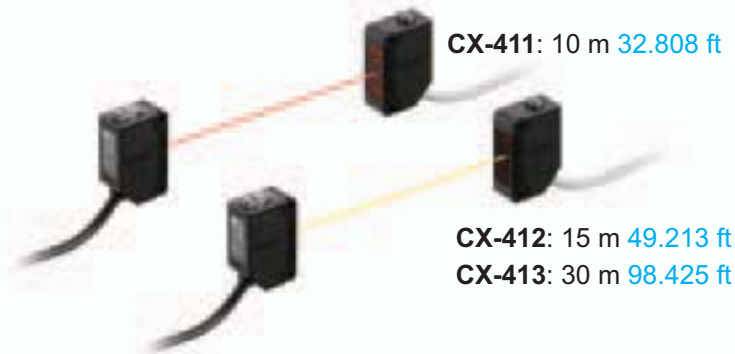
Save

Thoroughly eliminating unnecessary waste,
Reducing many environmental burdens



The **CX-400** series have three different cable length types and uses very simple packaging to reduce waste. The bag is made of polyethylene and does not emit toxic gasses.

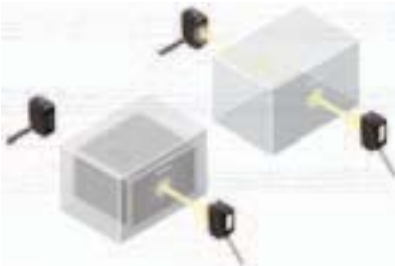
Thru-beam type



Strong infrared beam

CX-412/413

Remarkable penetrating ability enables applications such as package content detection come into practice. (Note)



Note: When sensing utilizing penetrating power, make sure to verify using the actual sensor.

Strong in dust and dirt

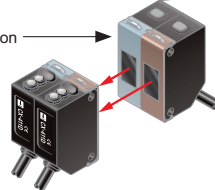
CX-412/413

The infrared light source is strong in dust and dirt compared to the red beam type.

Even the thru-beam type is strong at mutual interference CX-411

Two CX-411 sensors, with their red beam light source, can be installed close together by inserting an interference prevention filter.

Interference prevention filter (Optional)

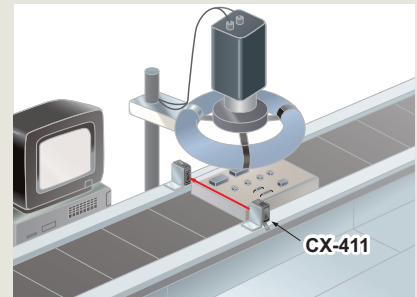


Applications

- Detecting box collapsing within the rail of stacker crane

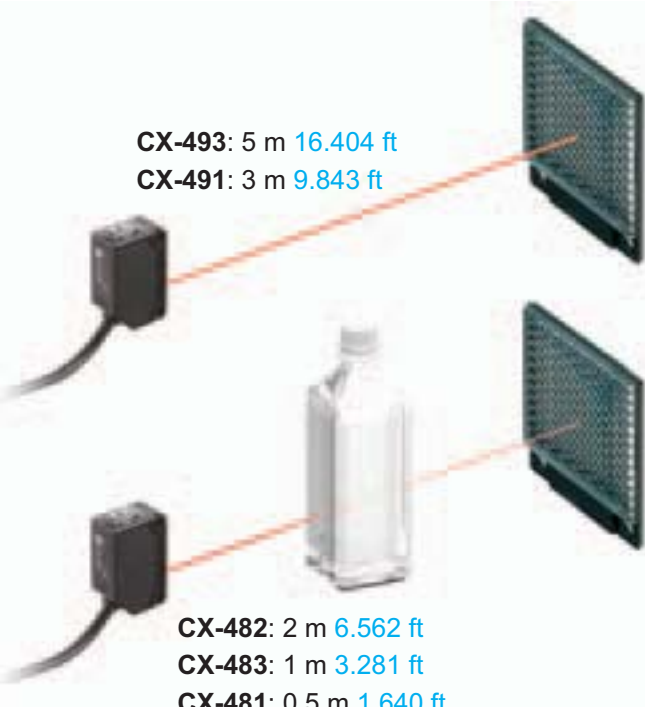


- Synchronizing sensor for image processing systems



Retroreflective type

CX-493: 5 m 16.404 ft
CX-491: 3 m 9.843 ft



For transparent object sensing

Long sensing range of 5 m 16.404 ft CX-493

A long 5 m 16.404 ft sensing range is possible with the red LED type that is easy to align with the beam axis. The sensors can be used for wide automatic door shutters.



Retroreflective type with polarizing filters CX-491

Built-in polarizing filters ensure stable sensing even on a mirror surface object.

Strong against extraneous light and noise CX-491

Hardly affected by extraneous lights or noises, these sensors provide stable sensing.

Two sensors can be mounted close together All models

The interference prevention function lets two sensors of any type to be mounted close together precisely.