

CX-400 SERIES Ver.2

■ General terms and conditions F-7

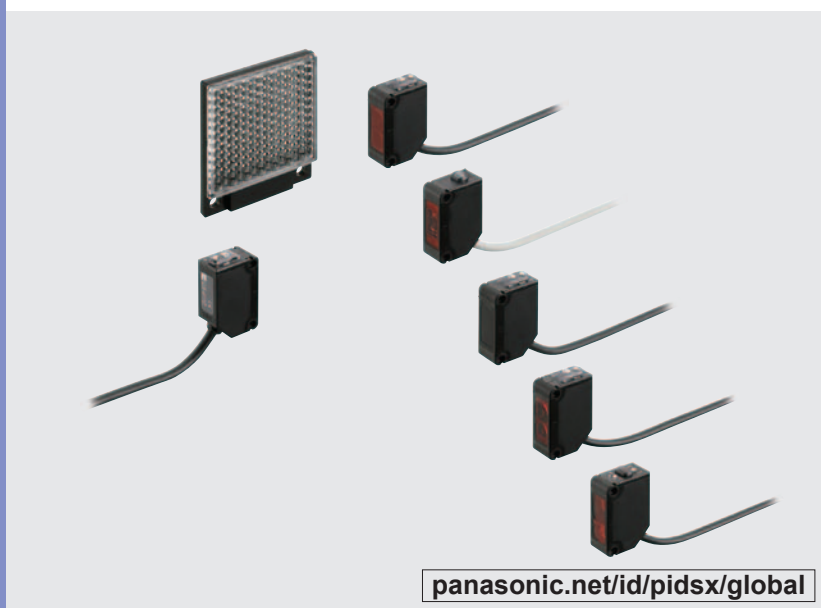
■ Sensor selection guide P.271~

Related Information

■ MS-AJ / CHX-SC2 P.979 / P.980

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

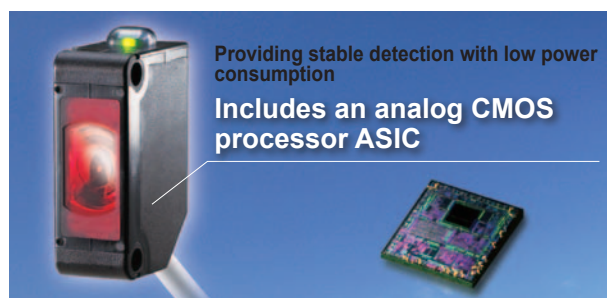
■ Korea's S-mark P.1506


panasonic.net/id/pidsx/global
Conforming to
EMC DirectiveCertified
(Some models only)PNP output
type availableLight intensity
monitorInterference
prevention

Sensors that are environmentally and user friendly.

Reducing environmental burdens further Up to 60% less power consumption

The various lineup covers through the inclusion of a newly developed custom integrated circuit. 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.



Providing stable detection with low power consumption

Includes an analog CMOS
processor ASICPrevious CX-482
25 mANew CX-482
10 mAUpgrade for up to
60% reduction

Contributing to reduced carbon dioxide emissions

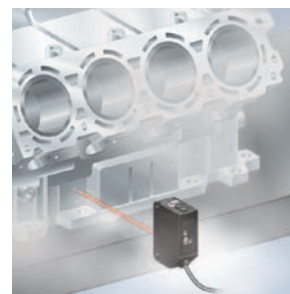
Electricity consumed by the **CX-400** series has been reduced on average 10.5 mA. Calculating 8 hours/day, 260 days (operating 5 days/week) for a total of 2,080 hours/year leads to:

► The **CX-400**
contributes

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

Strong against oil and coolant liquids **CX-41□/42□/49□**

The lens material for the thru-beam type, retroreflective type (excluding the **CX-48□**) and the diffuse reflective type are made of a strong acrylic that resists the harmful effects of coolants. These sensors can be used with confidence even around metal processing machinery that disperses oil mists. The protection mechanism also conforms to IP67 (IEC).



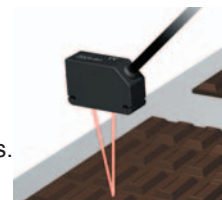
Test Oil	JIS Standard	Product Name
Lubricant	-	Velocity Oil No. 3
Water-insoluble cutting oil	2-5	Daphnecut AS-30D
	2-11	Yushiron Oil No.2ac (Note)
Water-soluble cutting oil	W1-1	Yushiron Lubic HWC68 (Note)
	W2-1	Yushiroken S50N (Note)

1,000 hours; Immersion (depth 0 m); Insulation resistance 20 MΩ/250 V

Note: Yushiron and Yushiroken are registered trademarks of Yushiro Chemical Industry Co., Ltd.

Strong against ethanol **CX-44□/48□**

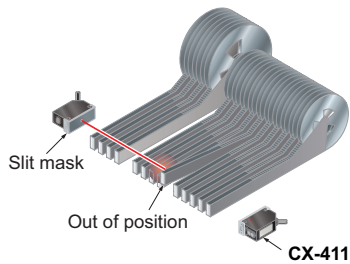
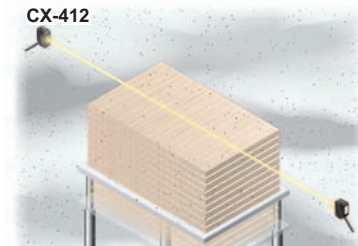
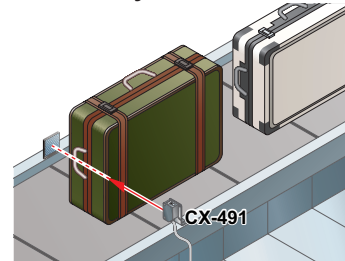
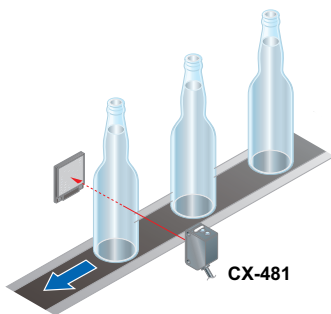
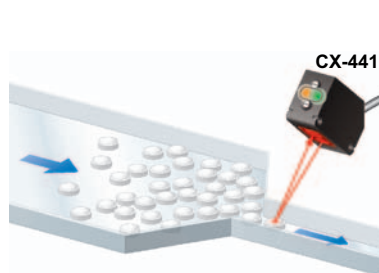
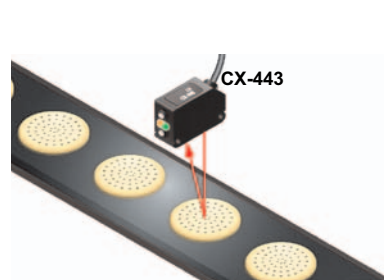
A strong, ethanol resistant polycarbonate was used for the front and display covers. Safe even for installing near food processing machinery that disperses ethanol based detergents. The protection mechanism also conforms to IP67 (IEC).



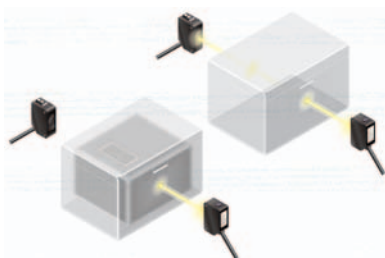
Caution: Set the **CX-48□** so that cleaning liquid will not get on to the attached reflector.

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**

APPLICATIONS**Detecting out of position tape feeder cassette****Detecting objects in dusty environment****Passage confirmation of object on a conveyor belt****Detecting transparent glass bottles****Detecting a small tablet****Detecting a biscuit****BASIC PERFORMANCE****Strong infrared beam****CX-412/413**

Remarkable penetrating power enables applications such as package content detection.

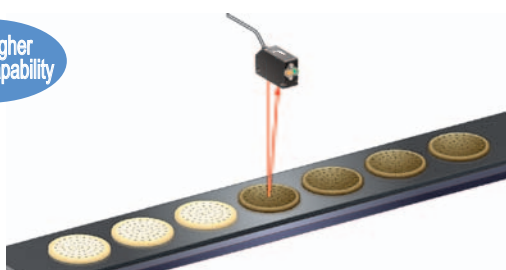


Note: When sensing utilizing penetrating power, make sure to verify using the actual sensor.

Hardly affected by colors**CX-441/443**

Both black and white objects can be sensed at the same distances. No adjuster control is needed, even when products of different colors are moving along the production line.

30 % higher sensing capability



[The difference in sensing ranges is 1% or less between non-glossy white paper with a setting distance of 50 mm 1.969 in and non-glossy gray paper with a brightness level of 5.]

Can sense differences as small as 0.4 mm 0.016 in, with hysteresis of 2 % or less**CX-441/443**

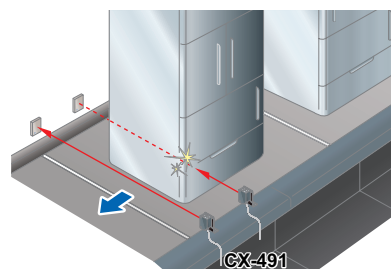
An advanced optical system provides sensing performance that is 2.5 times approx. than conventional models. Even ultra-small differences of 0.4 mm 0.016 in can be detected accurately.

2.5 times the sensing capability!

Height differences of as little as 0.4 mm 0.016 in can be detected at a setting distance of 20 mm 0.787 in

**Retroreflective type with polarizing filters****CX-491**

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



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

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