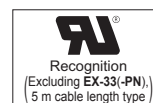


EX-30 SERIES Ver.2

Related Information

- General terms and conditions..... F-7
- Sensor selection guide..... P.271~
- Glossary of terms..... P.1455~
- General precautions P.1458~

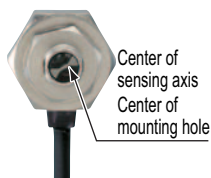

panasonic.net/id/pidsx/global


The next-generation new form series

A new alternative to fiber sensors

Simpler design

All you need to do is to make a $\varnothing 4$ mm $\varnothing 0.157$ in hole where you would like to stop or check the object ($\varnothing 6$ mm $\varnothing 0.236$ in hole for reflective type). Furthermore, the center of the sensing axis is the same as the center of the mounting hole, which makes it much easier to set the sensing position.



New design solves all weak points of fiber sensors

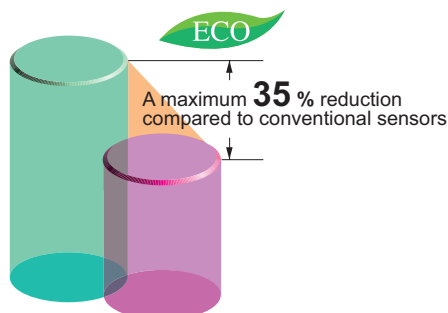
The **EX-30** series solves all of the difficulties associated with fiber sensors, such as:

- Difficulty finding a suitable place for the amplifier
- Fragility of the fiber
- Extra space needed because of difficulty in bending the fiber
- The nuisance of having to use a protective tube to prevent fiber breakage

BASIC PERFORMANCE

Electric power saving*

The **EX-30** series achieves reductions in power consumption of up to 65 %. These sensors contribute to environmental friendliness.



*Effective from production in April 2011.

Long sensing range

The **EX-30** series achieves long distance sensing [thru-beam type: 500 mm 19.685 in (**EX-33(-PN)**): 800 mm 31.496 in], reflective type: 50 mm 1.969 in.]



Globally usable

It conforms to the EMC Directive and obtains the UL Recognition. (excluding 5 m 16.405 ft cable length type) Moreover, PNP output type which is much in demand in Europe, is also available.

High response speed of 0.5 ms

The same high response speed of 0.5 ms as fiber sensor amplifiers is provided, making these sensors ideal for sensing small objects, counting objects that are moving quickly and positioning items such as circuit boards.

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

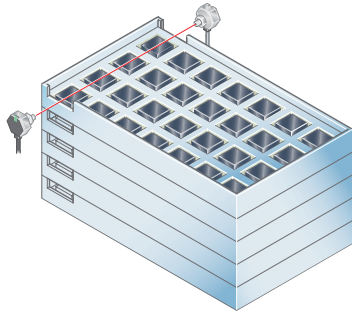
RX-LS200

RX

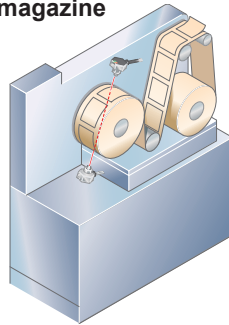
RT-610

APPLICATIONS

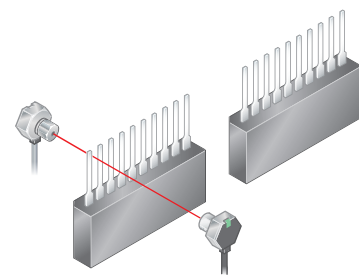
Detecting IC height



Detecting quantity of labels in label magazine



Checking IC pins (using slit masks)



VARIETIES

New thru-beam types now feature operation mode switch and sensitivity adjuster! **EX-33(-PN)**

EX-33(-PN)



① Operation mode switch ② Sensitivity adjuster ③ Bright 2-color indicator

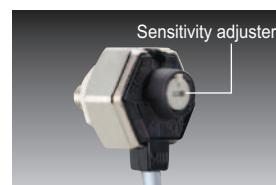
Switching between light-ON and dark-ON operating modes is possible with a single model.

It is convenient when you need fine adjustment.

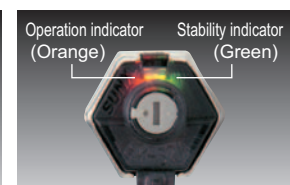
A bright 2-color indicator has been incorporated in all types.



Receiver



Emitter



Receiver

MOUNTING / SIZE

Can be installed in the same way as standard fibers

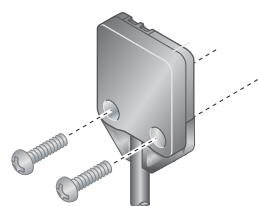
The **EX-30** series can be screwmounted (M4 for thru-beam type, M6 for reflective type) in the same way as standard fiber sensors. This means that they can be inserted into production lines in exactly the same way as conventional high-priced fiber sensors.

Single-point tightening cuts down on installation work by half

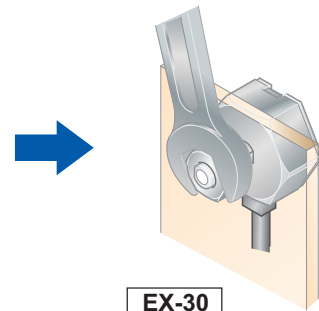
Conventional photoelectric sensors required four (for thru-beam type) or two (for reflective type) mounting holes and screws to be used. However, the **EX-30** series is installed with a single screw, thus cutting down on installation work by half.

M4

Thru-beam type
(Reflective type: M6)



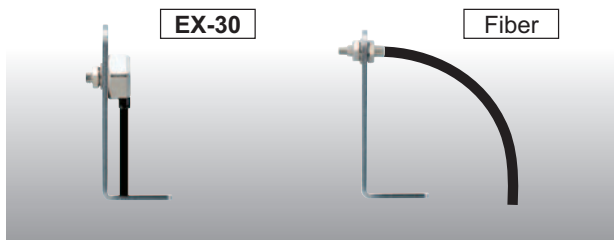
Conventional model



EX-30

Takes up very little space

Unlike conventional fibers, bending radius is not a problem, so that the sensor can be securely installed alongside conveyors.



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RT-610