

EQ-30 SERIES

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



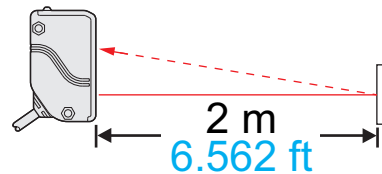
Unaffected by color or material, 2 m (6.562 ft) distance adjustable range reflective sensing

Hardly affected by object color or background Long sensing range 2 m 6.562 ft

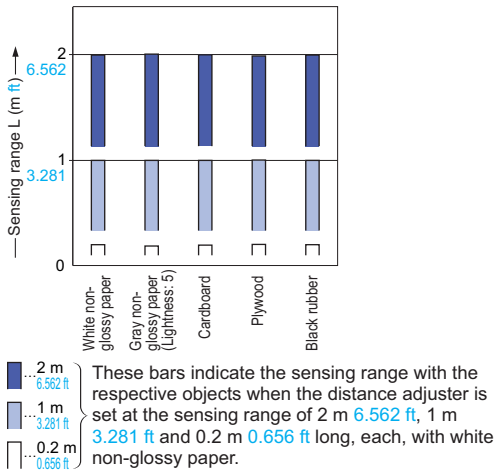
As the EQ-30 series is incorporated with a 2-segment photodiode as the receiving element with a unique circuitry, it detects an object at the same distance regardless of its color or the background beyond the adjusted sensing range.

(However, when the background is specular, it may be necessary to change the angle of the sensor.)

The EQ-30 series can detect an object 2 m 6.562 ft away. It is suitable for various applications, such as, sensing objects or positioning objects traveling on a wide assembly line, etc.

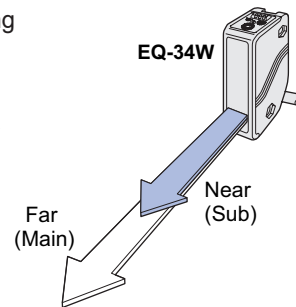


EQ-34: Correlation between material (200 × 200 mm 7.874 × 7.874 in) and sensing range (typical)

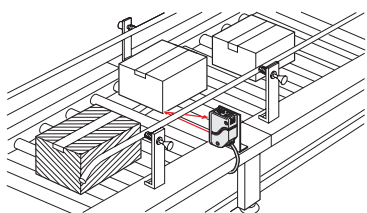


Two distances (far and near) can be set EQ-34W

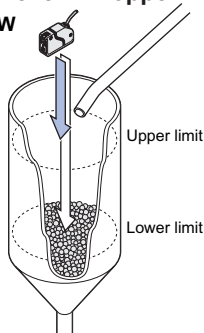
With EQ-34W, two sensing distances, Far (Main) and Near (Sub), can be set. Hence, one sensor can suffice where, earlier, two were required.



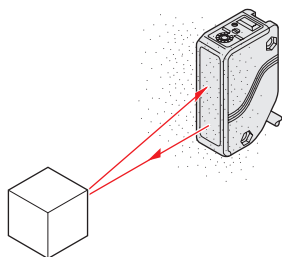
- Selection Guide
- Amplifier Built-in
- Power Supply Built-in
- Amplifier-separated
- CX-400
- CY-100
- EX-10
- EX-20
- EX-30
- EX-40
- CX-440
- EQ-30**
- EQ-500
- MQ-W
- RX-LS200
- RX
- RX-610

APPLICATIONS**Detecting a passage of cardboard box****Detecting level in hopper**

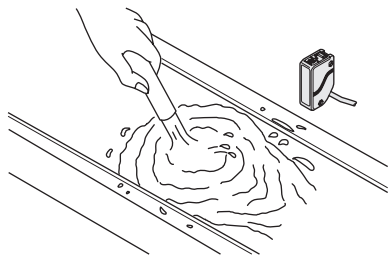
EQ-34W

**ENVIRONMENTAL RESISTANCE****Insusceptible to contamination on lens**

The fixed-focus sensing keeps the detectability better than diffuse reflective type sensors even if the lens is contaminated by dirt, dust, mist, or smoke under an unclean environment.

**Waterproof**

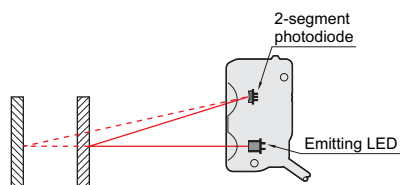
It has IP67 protection. It can be used in places splashed with water.



Note: However, take care that if it is exposed to water splashes during operation, it may detect a water drop itself.

Principle of adjustable range reflective sensing with 2-segment photodiode

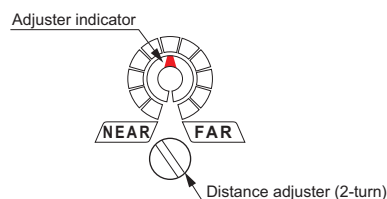
Normal reflective type sensors operate by sensing the variation in the amount of incident beam. However, the adjustable range reflective sensing type sensor incorporating the 2-segment photodiode operates by sensing the variation in the incident beam angle. Thus, the output is activated according to the distance of the object from the sensor. This system helps the **EQ-30** series in being unaffected by object color or a background, enabling stable sensing.



Sensing is based on the difference in the incident beam angle of the dotted line and the solid line in the above figure.

OPERABILITY**Mechanical 2-turn adjuster with indicator**

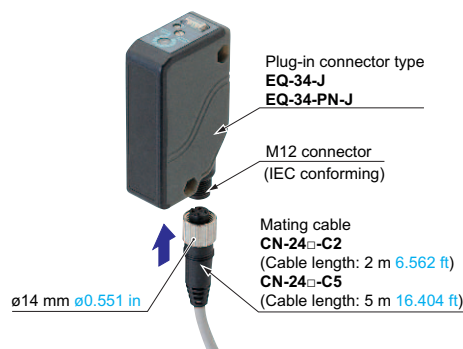
It features a mechanical 2-turn distance adjuster with an indicator that shows the set distance at a glance.

**MOUNTING / SIZE****Compact**

It saves space, since a miniaturized housing of W20 × H68 × D40 mm **W0.787 × H2.677 × D1.575 in** has been designed for the adjustable range reflective sensing sensor even though the adjustable sensing range is 2 m **6.562 ft** long.

**VARIETIES****Plug-in connector type is available**

Plug-in connector type, which can be easily disconnected for replacement is available. In case a problem occurs, anyone can replace the sensor in a minute. (Excluding **EQ-34W**)



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**