

Related Information

■ General terms and conditions..... F-17

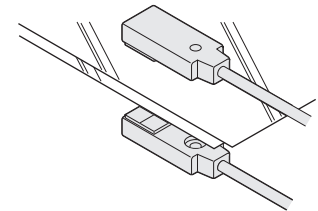
■ General precautions..... P.1405



From ultra-thin lead frames to iron sheets... Double feed detection of various metal sheets

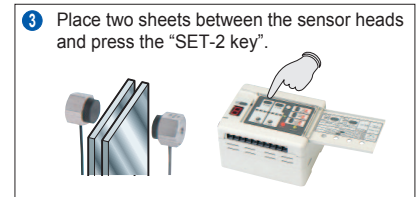
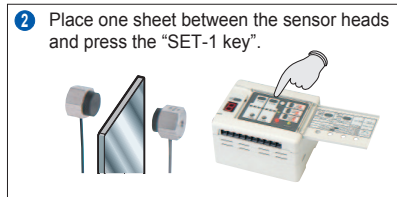
Double metal sheets detected

The high-end GD sensing technology detects double feeds of any metal sheet 0.01 mm **0.0004 in**, or more, thick.



Easy sensitivity setting with actual samples

Optimum sensitivity setting is easy by using the teaching function with actual samples.

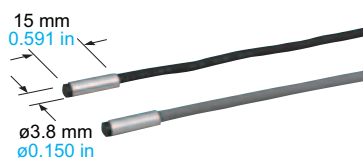


VARIETIES

Three types of sensor heads for various objects

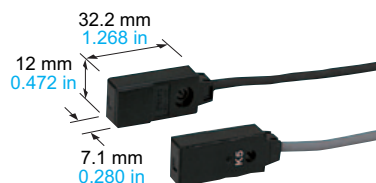
Small object detection sensor head / GD-3

This is an extremely small sensor head, only $\phi 3.8 \times 15$ mm $\phi 0.150 \times 0.591$ in, suitable for detecting small components.



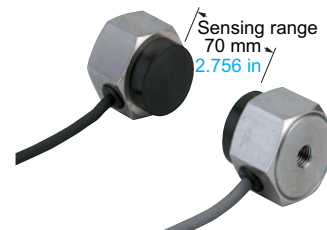
High precision sensor head / GD-10

It is suitable for high precision detection of double feeds of lead frames or thin metal sheets.



Long sensing range sensor head / GD-20

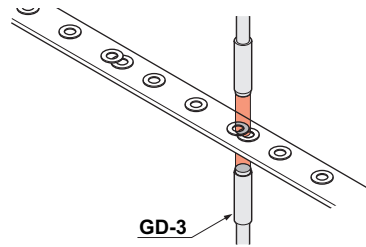
It achieves a long sensing range of 70 mm **2.756 in**. Further, it employs a robust metal case with IP67 protection to withstand harsh environment.



APPLICATIONS

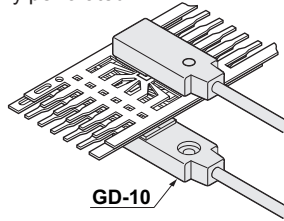
Detecting overlap of washers

GD-3 detects an overlap of small components such as washers.



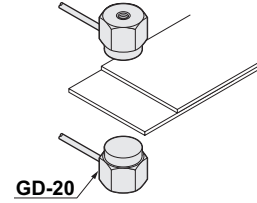
Detecting double feeds of lead frames

The high precision sensor head **GD-10** does not miss double feeds of lead frames even if they are very thin and highly perforated.



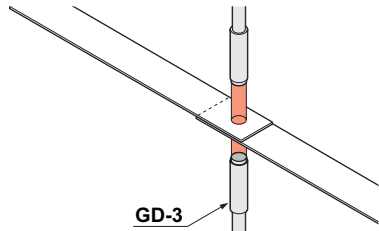
Detecting double feeds of sheet metal

The long sensing range sensor head **GD-20** allows the object thickness to be as much as 10 mm 0.394 in. Hence, various objects can be detected.



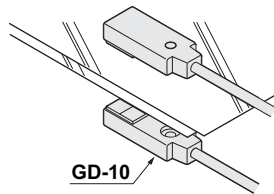
Detecting seam of hoop material

Even a minute difference in thickness can be detected.



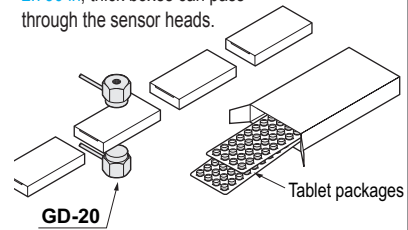
Detecting double feeds of aluminum foils

GD-10 can detect double feeds of thin aluminum foils which are several tens of micrometer thick.



Detecting missing tablet package in box

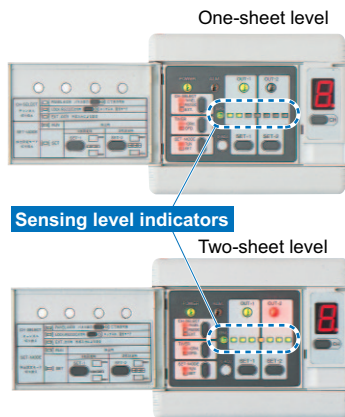
GD-20 can check if each box contains a given number of aluminum tablet packages. Since **GD-20** has a sensing range of up to 70 mm 2.756 in, thick boxes can pass through the sensor heads.



FUNCTIONS

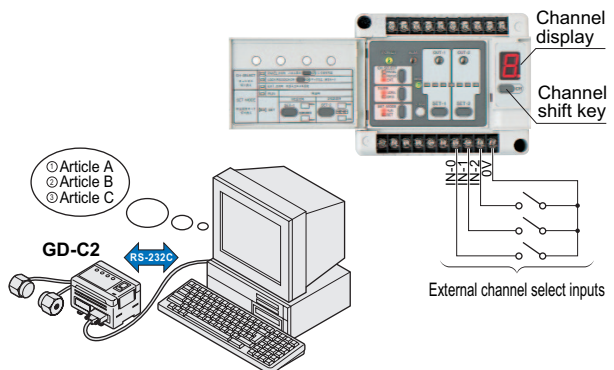
Seven LEDs indicate the sensing level

The optimum sensing point can be confirmed at a glance as seven LEDs indicate the sensing level.



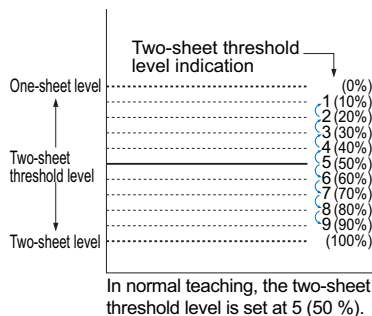
Suitable for flexible manufacturing

Since sensitivities of eight channels can be stored, product changeover is smooth and easy. Select channel number by the "Channel shift key" on the operation panel or by using external channel select inputs. Further, since **GD-C2** is equipped with RS-232C communication function, the sensitivity values can be stored in a personal computer, etc., and fed into the controller as per requirement.



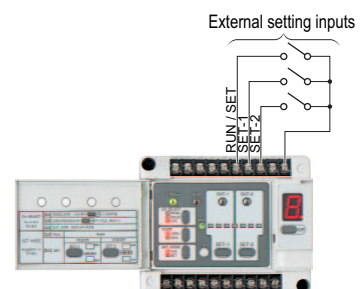
Two-sheet threshold level shift function

The two-sheet threshold level set by teaching can be shifted in nine steps to suit the detection conditions. This enables very stable detection.



External initialization

Teaching is possible by external devices, such as, PLC, etc. This enhances productivity by machine automation.



FIBER SENSORS

LASER SENSORS

PHOTOELECTRIC SENSORS

MICRO PHOTOELECTRIC SENSORS

AREA SENSORS

LIGHT CURTAINS

PRESSURE / FLOW SENSORS

INDUCTIVE PROXIMITY SENSORS

PARTICULAR USE SENSORS

SENSOR OPTIONS

SIMPLE WIRE-SAVING UNITS

WIRE-SAVING SYSTEMS

MEASUREMENT SENSORS

STATIC CONTROL DEVICES

ENDOSCOPE

LASER MARKERS

PLC / TERMINALS

HUMAN MACHINE INTERFACES

ENERGY CONSUMPTION VISUALIZATION COMPONENTS

FA COMPONENTS

MACHINE VISION SYSTEMS

UV CURING SYSTEMS

Selection Guide

Laser Displacement

Magnetic Displacement

Collimated Beam

Digital Panel Controller

Metal-sheet Double-feed Detection

GD