

Factory Automation Sensors DIGEST CATALOG

2017-2018

BRAND NEW World's No.1 Linearity World's Smallest TOF Sensor RECOMMENDATION

BRAND NEW



A Fusion of Ultra High-accuracy and Ease-of-use

Ultra High-accuracy Laser Displacement Sensor

CDX series



- High-speed measurement : Max. sampling period of 12.5 μs
- Newly developed image sensor: ATMOS
- Feedback-free high-speed shutter





Shape measurement of cam shafts

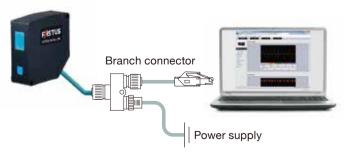


Shape measurement of tires





Simple configuration



- · Direct Network Connections are possible without use of a Controller
- Equipped with a Web Server, so setup software is unnecessary



Clearly Visible: Class 1 Laser Light Source

TOF Type with Built-in Digital Panel

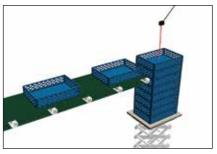
)H-DL series 🚾



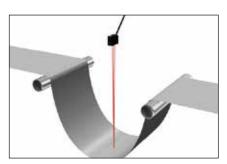
- Analog output type and 3-coutrol-output type
- Built-in digital display for simple setup
- Size: 17 × 32.8 × 44.4 (W × D × H) mm







Level control for lifts

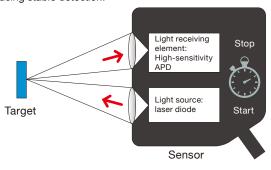


Loop control for sheet materials

Easy-to-see Digital Display

TOF (Time Of Flight) method

The TOF method measures the time it takes a pulse-emitted laser to hit a target and return, and the measurement is then converted into distance. With strong resistance to influences from the target's surface conditions, this method is capable of producing stable detection.



Photoelectric Sensors

Best-in-class Robust and Powerful



M18 Cylindrical Type

C-R series

- Large sensing distance
- Full-metal housing in brass



Molding

Hotmelt molding enables high vibration resistance up to 100Hz, 8 hours.



Can be used on work sites or devices that are exposed to splashing water such as the food and beverage industry.

Excellent Water Resistance / Oil Resistance

Stainless Steel Housing Type

Z-M series

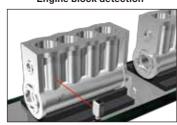
- Longest sensing distance in the class
- Employs a low deterioration 4-element red LED for the light source



Drill breakage on NC machine



Engine block detection



Cable type features water resistance of IP69K





Laser Sensors

High-resolution BGS Laser Sensor

High-resolution

C-MOS Laser Type (2-output type)

0.08mm height difference

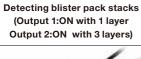


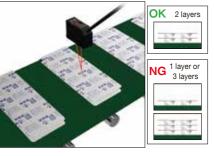
- The newly added BGS-HDL model is equipped with two control outputs
- Built-in controller 4-digit display



Detecting straws and float (Output 1:ON with no straw Output 2:ON when floating)

FASTUS





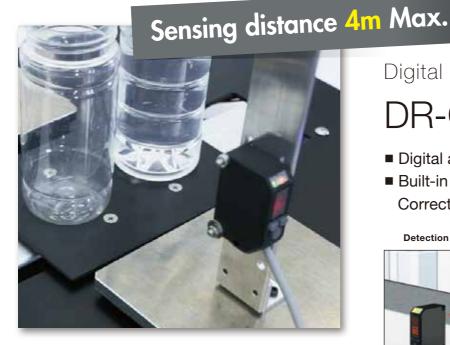






Super precision BGS sensor detects 0.08 mm height difference (BGS-HDL05T□)

Transparent Object Sensor



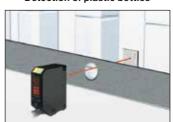
Achieves long range transparent object detection

Digital Laser Type

DR-Q series

- Digital adjustment function
- Built-in ASC (Automatic Sensitivity Correction) function

Detection of plastic bottles



Detection of glass bottles





1-HS mode 16 µs (stand-alone)

22 µs (linked)

High-speed Digital Type

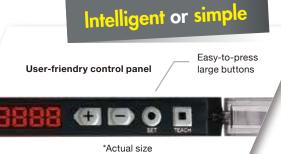
Super high-speed processor "FAntron DUO" High efficiency, high power LED Optical lens with high light collection efficiency

D3RF series

- Fastest high-speed response in the world
- Widest display in the industry
- 100% display for better recognition of level change



It can detect over 30,000 workpieces per second.



Low Cost Type

D1RF/V2RF series



- Teach-In + Display type and Potentiometer type
- Mounting holes for M3 screws



D1RF series

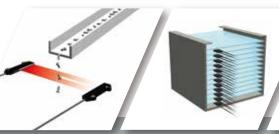
V2RF series

Fiber-units

Industry largest selection

NF series

Selection of optimal fiber-units and options is possible from among 200 models



Counting screws

Detecting existence of glass plates in the rack

Liquid detection in transparent bottle

Displacement Sensors



Compact Laser
Displacement Sensor

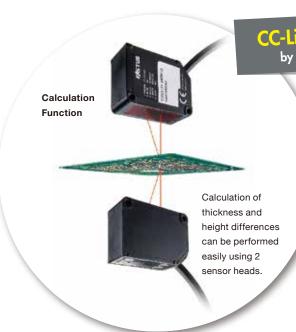
CD22 series

- Repeat accuracy: 1 µm (CD22-15□)
- Built-in amplifier & digital 4-digit display



*Among devices equipped with displays in the 1 µm repeat accuracy class.

Optex FA examination performed November 2015.



CC-Link Communication
by connecting to UC1 series





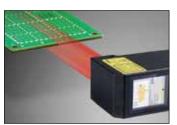
CDA series

- Up to two displacement sensors can be connected
- Features a clear organic EL display
- The external amplifier unit enables remote operation and easy calculation setting

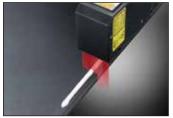
2D Displacement Sensor

LS series **FASTUS**

- Line beam for fast, accurate measuring of height and width
- 2-dimensional measurements at a significantly low cost



Substrate overlap feed detection



Inspection for sealant application position/amount



Vision Sensor

Simple & Easy Setup Color Area Sensor

Color Area Sensor

CVSE1-RA series

- All in one color vision sensor
- Three-Step-Teaching in 30 seconds

















OPTEX FA Sensors Videos on You Tube

We provide the informational videos of our products solutions on "FASTUS TV". You can see the introductions and features of OPTEX FA products lineup.







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