LASER SENSORS

PHOTOELECTRIC SENSORS

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

HUMAN MACHINE INTERFACES

ENERGY CONSUMPTION

FA COMPONENTS

MACHINE VISION SYSTEMS

UV CURING SYSTEMS

VISUALIZATION COMPONENTS

PLC

MICRO

Digital Fiber Sensor

FX-300 SERIES







* Passed the UL 991 Environment Test

UL 61010C-1 compatible, Passed the UL 991 Environment Test based on SEMI S2-0200. [Category applicable for semiconductor manufacturing: TWW2, Process Equipment] [Applicable standards: UL 61010C-1] [Additional test / evaluation standards as per intended use: UL 991, SEMI S2-0200]







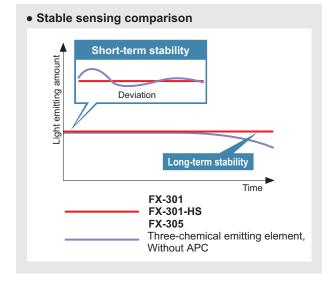




Constant advances achieving significant improvement of sensing performance

Stable sensing over long and short periods FX-301 FX-301-HS FX-305 Ever

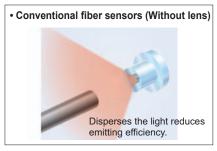
In addition to a "four-chemical emitting element" which suppresses changes in the light emitting element over time so that a stable level of light emission can be maintained over long periods, a "APC (Åuto Power Čontrol) circuit" has also been adopted afresh. The light emitting amount can be controlled in minute degrees so that even changes occurring over very short periods can be handled, allowing stable sensing performance by suppressing deviations in light emitting amounts caused by changes in the ambient environment that could not previously be suppressed.

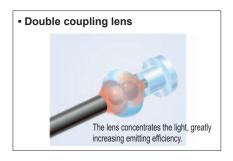


Even greater sensing range

All models

Adoption of a "double coupling lens" that increases emission efficiency to its maximum limits and greatly increases sensing range. Sensing ranges with small diameter fibers and ultra-small diameter fibers, which have become very popular due to the miniaturization of chip components, have been increased by 50 % over previous values achieved with other amplifiers.





Selection Guide Fibers

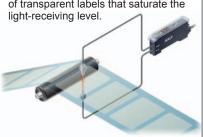
> FX-500 FX-100 FX-300

FX-410 FX-311 FX-301-F7/ FX-301-F

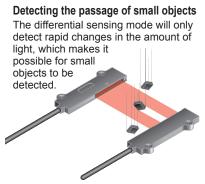
APPLICATIONS

Detecting the presence or absence of labels

The light-emitting amount selection function can even stabilize detection of transparent labels that saturate the light receiving level.

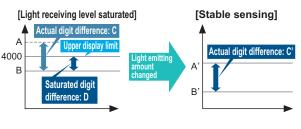






Light-emitting amount selection

If the light receiving level becomes saturated during close-range sensing or when sensing transparent or minute objects, you can adjust the light emitting amount of the sensor to stabilize sensing without needing to change the response time. Sensing that previously required the response time or fibers to be changed can now be set much more easily using this function.





FX-301 FX-301-HS FX-305

Light emitting amount can be changed without changing response time

FX-301-HS FX-305

4 times as fast

as before

Large display 9999

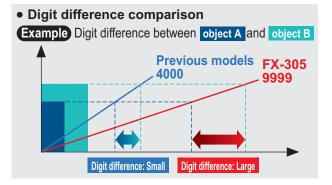
FX-305

Large display with 4 digits (9999). With a greater difference in digit value than previous models, threshold values can be set in units of 1 digit up to maximum 9999. Threshold setting can now be done more easily and accurately.



2.5 times previous models

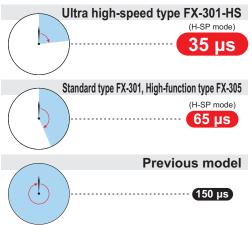
(During STDF, LONG and U-LG modes)



Ultra high-speed 35 µs response

Ultra high-speed 35 µs response. Even small objects moving at high speeds can be sensed. In addition, at 65

us the **FX-301** standard type and **FX-305** high-function type is also twice as fast as previous models.



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FX-311 FX-301-F7 FX-301-F