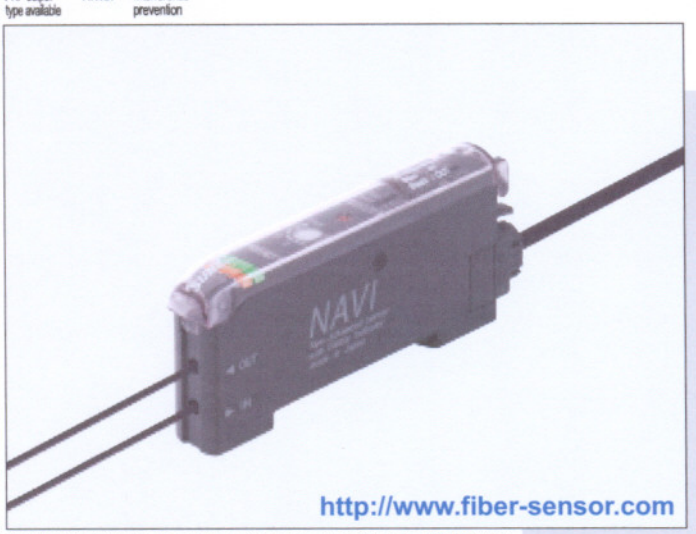
FX-311 SERIES

New

Manually Set Fiber Sensor

PNP output type available | Timer | Interference prevention



Highly sensitive manual tuning made easy

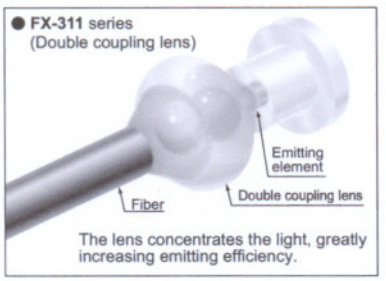
* Passed the UL 991 Environment Test

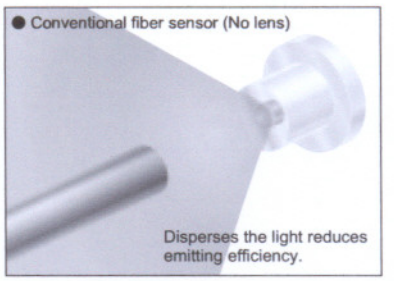
Conforming to EMC Directive | UL Recognition

* 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: UL991, SEMI S2-0200]

Long-range sensing made possible with built-in optical lens

For the first time in the industry, an optical 'double coupling lens' has been incorporated directly into the fiber sensor itself. This lens maximizes the light emission efficiency, resulting in a tremendous improvement in the sensing range. Sensing ranges with small diameter fibers and ultra-small diameter fibers, which have become very popular in recent years due to the miniaturization of chip components, have been increased by 50 % over previous values achieved with other amplifiers.





Three light source types are made available for expanding applications

In addition to the red LED (four-chemical emitting element) type, the blue LED and green LED types are also available to conform to an even wider array of applications.

Color combinations that can be discerned during mark sensing

Background color \ Mark color	White	Yellow	Orange	Red	Green	Blue	Black
White		■	■	■▲	●■▲	●■▲	●■▲
Yellow	■		▲	▲	●■▲	●■▲	●■▲
Orange	■	▲		■▲	●■▲	●■▲	●■▲
Red	■▲	▲	■▲		●	●■	●■
Green	●■▲	●■▲	●■▲	●		■	■
Blue	●■▲	●■▲	●■▲	●■	■		■
Black	●■▲	●■▲	●■▲	●■	■	■	

●: Red LED ■: Blue LED ▲: Green LED

Stable long-term sensing

The newly developed four-chemical emitting element that uses the **FX-311** (red LED type) suppresses changes over long periods of time as much as possible, so that a stable light emitting level is maintained. There is very little element deterioration so that stable and accurate sensing can be maintained over long periods.

12-turn potentiometer with visible indicator

12-turn potentiometer has been incorporated for fine adjustments.
It enables very fine differences to be detected.
Moreover, since the pointer of indicator has a red backlight, you can confirm the position at a glance, even in a dark area.