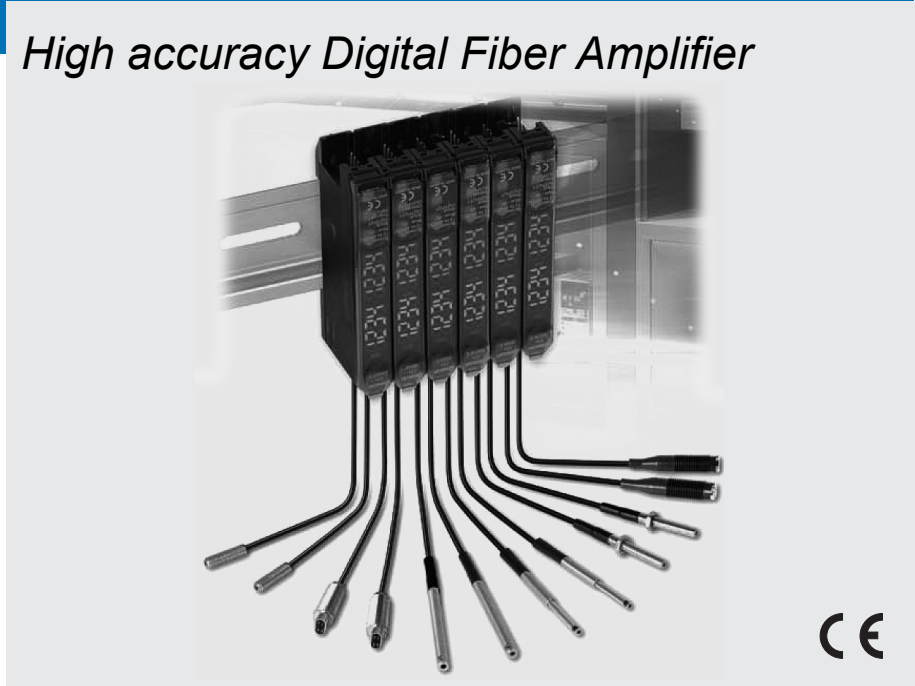


Digital Fiber Sensors

E3X-DA-S

High accuracy Digital Fiber Amplifier

- The industry's first Power Tuning function in a digital amplifier.
- High resolution of 4000 digits for long sensing distances and accurate settings
- Short response time of only 50 μ s (turn on) for fast sensing processes
- Mutual interference suppression for simultaneous sensor operations
- Two large easy to read displays
- Stable long term performance due to OMRON's APC function.
- APC (Auto Power Control)
- Environmentally friendly design.



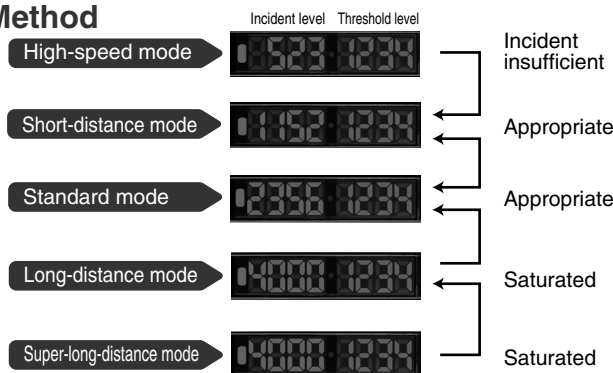
Features

Industry's first power tuning function in a digital sensor.

No complicated mode settings.

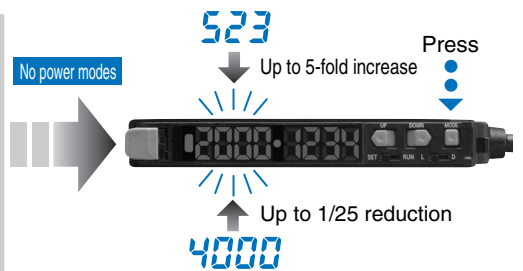
Troublesome power adjustments have been eliminated, so it isn't necessary to select from power mode settings, such as long-distance mode, standard mode, and short-distance mode. When the MODE Key is pressed once, the power tuning function shifts the power level so that the present incident level is set to the ideal level (2000 on the digital display.)

Earlier Method



The best mode for each application was selected from several power modes.

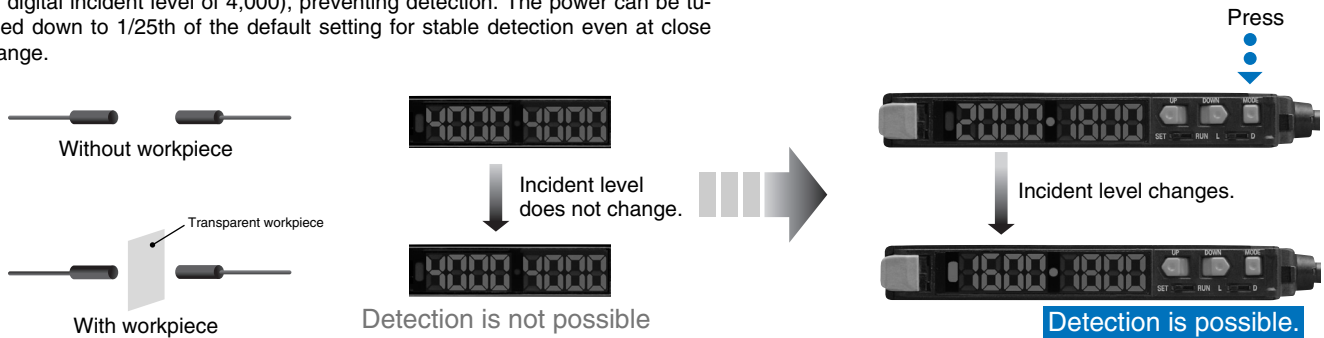
New Method



The Sensor can be used immediately without setting the mode. If the incident light level is too high or too low, just press the Mode key to achieve the optimum status.

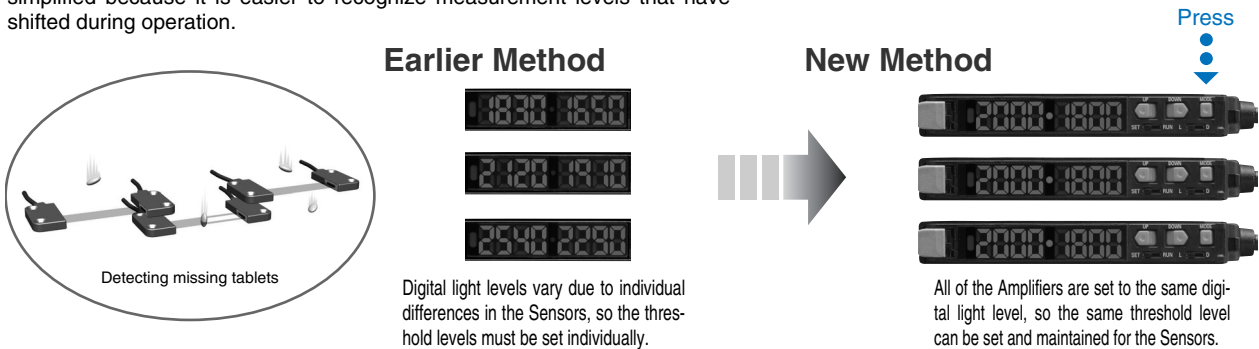
Insufficient light or saturation at short distances can be corrected.

The power tuning range is extended to the allowable limits to eliminate problems such as insufficient light or detection failures due to saturation. If the installation distance is too short, the incident light may saturate (i.e., to a digital incident level of 4,000), preventing detection. The power can be tuned down to 1/25th of the default setting for stable detection even at close range.



Variations between different Sensors can be eliminated.

Threshold levels had to be set and maintained separately for individual Sensors due to variations in the digital light levels measured by each Sensor. With power tuning, the incident level can be fine-tuned so the same threshold level can be set for each Sensor in an application. Maintenance is also simplified because it is easier to recognize measurement levels that have shifted during operation.



Large, easy-to-read displays: Clear even from a distance

The displays are large and easy-to-read, despite the small case.

Settings can be made more simply and confidently with two digital displays. For example, the threshold value can be changed while reading the incident level or a setting can be changed while confirming the setting's function item number.

