**Prevention of detection errors due to a drop in light level**

Digital fiber-optic sensor HPX-AG02 alarm output model

**Special function:**
Light-level drop alarm output

In addition to the regular detection output, the HPX-AG02 has a separate alarm output that warns the user if the incoming light level drops.

**Conditions for light-level drop alarm output**

An alarm signal is output when the incoming light level falls below a reference level by a preset amount.

- **Setting method for light-level drop alarm output**
  - **Setting when the light-level drop amount is 10% and percent tuning is 70%.
  - **When re-tuning is done after light-level drop alarm output.**

**Related function**
Remote tuning

The HPX-AG02 Series allows auto tuning remotely by an external device. Light-level drop alarm output can be also set up by remote tuning at the same time.

**Key lock prevents accidental setting errors**

Even if the amplifier keys are locked, remote tuning by an external device is possible.
## Selection guide

### Catalog listing

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### Notes
- To use light-level drop alarm output or stability safety margin alarm output in a reduced wiring installation, select an HPX-AG04 Series sensor.

## I/O circuit and connections (NPN type)

![Circuit diagram](image)

- In addition to low-level drop and stability safety margin alarm outputs, output 2 produces an APC signal, allowing the user to know if APC (auto power control) ends. The APC signal is output regardless of whether one of the above two alarm outputs is selected.

## Related products

### HPX-AG03 Remote tuning error output model

- **Improves equipment reliability**
- If a tuning error occurs during tuning, an alarm signal is output. The HPX-AG03 Series allows full auto-tuning remotely.

### HPX-AG04 Advanced timer model

- **Used for interlock**
- When an object is detected (or is not detected), the output is turned ON, and remains ON no matter what the detection status is.

- **During latch operation, the amplifier display blinks.**
- If a highly volatile liquid such as IPA has leaked, latched output will stay ON even after the liquid has evaporated. (Used in combination with the HPF-D040 liquid leak fiber-optic detector.)

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http://www.azbil.com/products/bi/order.html

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