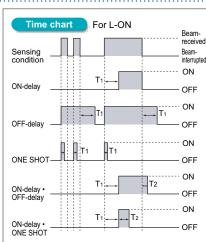


Timer period
Output 1: 0.5 to 9,999 ms (variable)
Output 2: 0.5 to 500 ms (variable)



## Even beginners can quickly learn how to use the MODE NAVI

Fiber	S
Fibe Amplifier	
FX-50	0
FX-10	0
FX-30	0
FX-41	0
FX-31	1
FX-301-F7 FX-301-	

HUMAN MACHINE INTERFACES

ENERGY CONSUMPTION VISUALIZATION COMPONENTS

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> Selection Guide

> > MODE NAVI uses six indicators to display the amplifier's basic operations. The current operating mode can be confirmed at a glance, so even a first time user can easily operate the amplifier without becoming confused.

RUN TEACH	RUN→ This is the sensing mode. Incident light level is displayed in the digital display.
RUN TEACH	TEACH→ This mode is for setting the threshold value.

ADJ $\rightarrow$ In this mode, the threshold value, once set, may be fine-tuned.



TIMER	L / D ON→ This mode allows the selection of output operation as either Light-ON or Dark-ON.
	TIMER→ This mode permits the choice of using or not using the timer.
TIMER	PRO→ This mode allows the selection of further advanced functions, such as the copying of individual settings and the memory functions.

All models

## Easy confirming of threshold value settings

The threshold value can be confirmed by turning the jog switch even during RUN mode.



 Jog switch is turned

 Left: FX-301(-HS)
 Right: Output 2 for

 Output 1 for FX-305
 FX-305



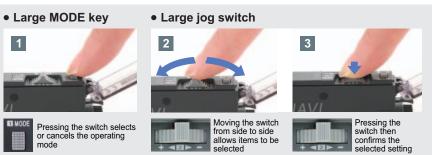
FX-301 FX-301-HS FX-305

The threshold value is displayed

All models

# The use of only two switches makes for very simple operations

Only two switches, the large jog switch and the large MODE key, are required for operation. You can operate it simply by the 3 steps shown on the right.

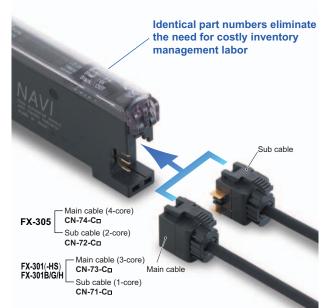


#### A quick-connection cable saves wiring and **Connector type** work-hours

### One unit can be used as either a main unit or sub unit

The amplifier unit can be used as either a main unit or a sub unit. This feature allows for easy mounting in the side-by-side configuration. The main and sub unit functions are distinguished only by the proper use of the main cable and the sub cable.

Moreover, inventory management and maintenance is simplified.





#### An optical communication function allows up to \*16 sensors to be adjusted simultaneously FX-301 FX-305

The optical communication function allows the data that is currently set to be copied and saved all at once for all amplifiers connected together from the right side. This greatly reduces troublesome setup tasks and makes setup much smoother. In addition, troublesome adjustment operations at times such as when replacing

sensors can also be carried out easily and data can also be copied and stored using the optical communication function.



\* Use the optical communication function for only the same types of sensors. Furthermore, the FX-301-HS is not equipped with optical communication function capability.

### Settings can be entered directly using numerical input All models

Every function can be directly set merely by the input of a four digit code (numbers) from the code table. This convenient feature is easy to set up. In the event that settings are accidentally changed at the operating site, merely entering the correct code can restore the original settings. This results in easy and quick maintenance.

Upper communication unit for digital sensor SC-GU1-485

We now offer remote maintenance for digital sensors!

The communication unit enables inputs to the digital fiber

sensors (such as teaching and data bank switching) to be carried out via a PLC or a personal computer, and

also allows confirming of the incident light intensity an

PI C

output status for the fiber sensors. This greatly improves

workability during equipment starting up and maintenance.

First digit: Settings for response time and hysteresis Second digit: Settings for L/D ON and display mode



Third digit: Settings for Adjust lock and timer

RS-485

communication

FX-301 FX-305

FX-301(P)

FX-305(P)

SC-GU1-485

## Communication unit improves equipment starting up and maintenance

#### FX-CH2 External input unit for digital sensor

### Teaching and changing settings can be performed by using the PLC and touch panel.

Various settings and switching of up to 16 units of digital fiber sensors can be accomplished at once without operating the actual sensors themselves, but via external signals, such as the PLC, touch panel, and push buttons.

### <Main functions>

- Batch teaching
- · Key lock setting
- · Batch loading / saving of the data bank



### Refer to our website for details

Compatible with all PLCs equipped with RS-485 compatible units

<Communicable commands>

· Sensor incident light intensity

Sensor settings verification

Threshold value settings, etc

· Sensor output status

Refer to **SC-GU1-485** pages for details



FX-500
FX-100
FX-300
FX-410
FX-311
FX-301-F7/ FX-301-F

INDUCTIVE PROXIMITY SENSORS PARTICULAR USE SENSORS

PRESSURE / FLOW SENSORS

FIBER SENSORS

SENSORS

PHOTOELECTRIC

LASER

SENSORS

MICRO PHOTOELECTRIC SENSORS AREA SENSORS LIGHT CURTAINS / SAFETY COMPONENTS

SENSOR OPTIONS SIMPLE

WIRE-SAVING UNITS WIRE-SAVING SYSTEMS

MEASUREMENT SENSORS

STATIC ELECTRICITY PREVENTION DEVICES

LASER MARKERS

#### PLC

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