

Manually Set Fiber Sensor

FX-311 SERIES



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Highly sensitive manual tuning made easy

12-turn potentiometer with visible indicator

12-turn potentiometer has been incorporated for fine adjustments.

It enables detection of very fine differences. Moreover, since the pointer of indicator has a red backlight, you can confirm the position at a glance, even in a dark area.



Indicator

12-turn potentiometer

Long life and reduced maintenance work-hours

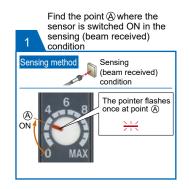
The light-emitting elements of conventional fiber sensors are affected by temperature and long-term use, changing their emission over time and requiring sensitivity readjustment. FX-311 (Red LED type) employs the new "four-chemical LED", first used in the FX-301 (red LED type).

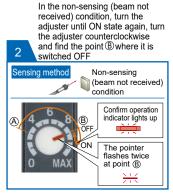
This emitter greatly reduces adverse influences on emission performance, resulting in stable operation that almost never needs adjustment.

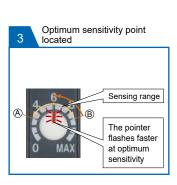
Rapid flashing "assist function" eases adjustment for optimum sensitivity

The FX-311 series has a convenient built-in "assist function" which indicates the optimum sensitivity position by flashing rapidly when optimum sensitivity is reached. This enables easy and reliable sensitivity adjustment, which is convenient for a narrow sensing range requiring fine tuning.

* In order enable the "assist function", switch the operation selection switch from L-ON→D-ON→L-ON .







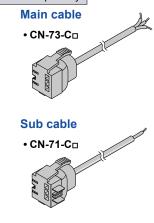
ORDER GUIDE

Amplifiers Quick-connection cable is not supplied with the amplifier. Please order it separately.

Ту	/ре	Appearance	Model No.	Emitting element	Output
	NPN output	NAVI NAVI	FX-311	Red LED	
			FX-311B	Blue LED	NPN open-collector transistor
Manually set			FX-311G	Green LED	
Manua	PNP output		FX-311P	Red LED	
			FX-311BP	Blue LED	PNP open-collector transistor
			FX-311GP	Green LED	

Quick-connection cables Quick-connection cable is not supplied with the amplifier. Please order it separately.

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	Туре	Model No.	Description		
		CN-73-C1	Length: 1 m 3.281 ft	0.2 mm² 3-core cabtyre cable, with connector on one end Cable outer diameter: ø3.3 mm ø0.130 in	
	Main cable (3-core)	CN-73-C2	Length: 2 m 6.562 ft		
		CN-73-C5	Length: 5 m 16.404 ft		
		CN-71-C1	Length: 1 m 3.281 ft		
	Sub cable (1-core)	CN-71-C2	Length: 2 m 6.562 ft	0.2 mm² 1-core cabtyre cable, with connector on one end Cable outer diameter: ø3.3 mm ø0.130 in	
		CN-71-C5	Length: 5 m 16.404 ft	ØU. 130 III	



End plates End plates are not supplied with the amplifier. Please order them separately when the amplifiers are mounted in cascade.

Appearance	Model No.	Description
	MS-DIN-E	When amplifiers are mounted in cascade, or when an amplifier moves depending on the way it is installed on a DIN rail, these end plates clamp amplifiers into place on both sides. Make sure to use end plates when cascading multiple amplifiers together. 2 pcs. per set

OPTIONS

Designation	Model No.	Description	
Amplifier mounting bracket	MS-DIN-2	Mounting bracket for amplifier	
Hand-turned knob attached cover FX-AJ1		Hand-turned knob allows easy adjustment of sensor sensitivity.	
Fiber amplifier protection seal	FX-MB1	10 sets of 2 communication window seals and 1 connector seal Communication window seal: It prevents malfunction due to transmission signal from another amplifier, as well as, prevents effect on another amplifier. Connector seal: It prevents contact of any metal, etc., with the pins of the quick-connection cable.	

Amplifier mounting bracket

• MS-DIN-2



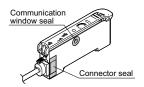
Hand-turned knob attached cover

• FX-AJ1



Fiber amplifier protection seal

• FX-MB1



LIST OF FIBERS

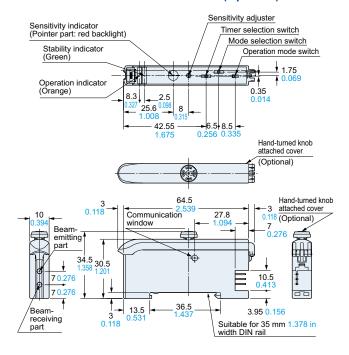
Refer to our website for details of each fiber.

DIMENSIONS (Unit: mm in)

The CAD data can be downloaded from our website.

FX-311_□ FX-311_□P Amplifie

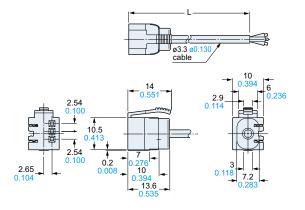
Mounting drawing with a hand-turned knob attached cover FX-AJ1 (Optional)



DIMENSIONS (Unit: mm in)

The CAD data can be downloaded from our website.

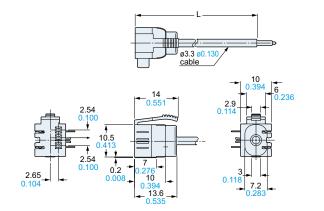
CN-73-C□ Main cable (Optional)



• Length L

Model No.	Length L
CN-73-C1	1,000 39.370
CN-73-C2	2,000 78.740
CN-73-C5	5,000 196.850

CN-71-C□ Sub cable (Optional)

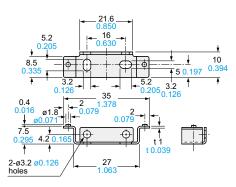


• Length L

Model No.	Length L
CN-71-C1	1,000 39.370
CN-71-C2	2,000 78.740
CN-71-C5	5,000 196.850

MS-DIN-2

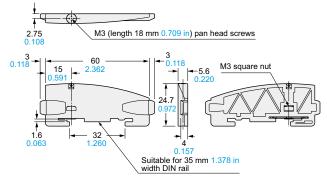
Amplifier mounting bracket (Optional)



Material: Cold rolled carbon steel (SPCC) (Uni-chrome plated)

MS-DIN-E

End plate (Optional)



Material: Polycarbonate

Disclaimer

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