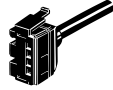
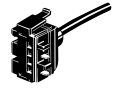


Accessories (Order Separately)

Amplifier Unit Connectors (Required for models for Wire-saving Connectors.)

Note: Protector seals are provided as accessories. [Refer to *Dimensions* on page 19.]

Item	Appearance	Cable length	No. of conductors	Model
Master Connector		2 m	3	E3X-CN11
			4	E3X-CN21
Slave Connector			1	E3X-CN12
			2	E3X-CN22

Ordering Precaution for Amplifier Units with Wire-saving Connectors





Amplifier Units and Connectors are sold separately. Refer to the following tables when placing an order.

Fiber Amplifier Unit			Applicable Connector (Order Separately)	
Model	NPN output	PNP output	Master Connector	Slave Connector
Single-function models	E3X-DA6SE-S	E3X-DA8SE-S	E3X-CN11	E3X-CN12
Standard models	E3X-DA6-S	E3X-DA8-S		
Mark-detecting models (multiple color light sources)	E3X-DAG6-S	E3X-DAG8-S		
	E3X-DAB6-S	E3X-DAB8-S		
	E3X-DAH6-S	E3X-DAH8-S		
Advanced models	E3X-DA6TW-S	E3X-DA8TW-S	E3X-CN21	E3X-CN22
	E3X-DA6RM-S	E3X-DA8RM-S		
	E3X-DA6AT-S	E3X-DA8AT-S		
2-channel models	E3X-MDA6	E3X-MDA8		

When Using 5 Amplifier Units


Fiber Amplifier Units (5 Units)	+	1 Master Connector + 4 Slave Connectors
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Mobile Console [Refer to *Dimensions* on page 20.]

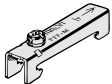
Appearance	Model	Remarks
	E3X-MC11-SV2 (model number of set)	Mobile Console with Head, Cable, and AC adapter provided as accessories
	E3X-MC11-C1-SV2	Mobile Console
	E3X-MC11-H1	Head
	E39-Z12-1	Cable (1.5 m)

Note: Use the E3X-MC11-SV2 Mobile Console for the E3X-DA-S/MDA-series Fiber Amplifier Units.
The E3X-MC11-SV2 is an upgraded version of the E3X-MC11-S that is fully interchangeable with the older model.

Mounting Bracket [Refer to *E39-L/E39-S/E39-R*.]

Appearance	Model	Quantity
	E39-L143	1

End Plate [Refer to *PFP-□*.]

Appearance	Model	Quantity
	PFP-M	1

Ratings and Specifications

Refer to pages 17 to 20 for dimensions.

Fiber Amplifier Units

● Single-function, Standard, and Mark-detecting Amplifier Units

Item	Type	Single-function models E3X-DA□SE-S	Standard models E3X-DA□-S	Mark-detecting models (multiple color light sources)		
	Model			Green LED E3X-DAG□-S	Blue LED E3X-DAB□-S	Infrared LED E3X-DAH□-S
Light source (wavelength)		Red LED (635 nm)		Green LED (525 nm)	Blue LED (470 nm)	Infrared LED (870nm)
Power supply voltage		12 to 24 VDC ±10%, ripple (p-p) 10% max.				
Power consumption		960 mW max. (current consumption: 40 mA max. at power supply voltage of 24 VDC)				
Control output		Load power supply voltage: 26.4 VDC; NPN/PNP open collector; load current: 50 mA max.; residual voltage: 1 V max.				
Remote control input		No-voltage input (contact/non-contact)	---			
Protection circuits		Reverse polarity for power supply connection, output short-circuit				
Re-sponse time	Super-high-speed mode	---	Operate: 48 μs, reset: 50 μs *1,*2			
	High-speed mode	---	Operate/reset: 250 μs			
	Standard mode	Operate or reset: 1 ms				
	High-resolution mode	---	Operate or reset: 4 ms			
Sensitivity setting		Teaching or manual method				
Func-tions	Power tuning	---	Light emission power and reception gain, digital control method			
	Timer function	---	Select from OFF-delay, ON-delay, or one-shot timer. 1 ms to 5 s (1 to 20 ms set in 1-ms increments, 20 to 200 ms set in 10-ms increments, 200 ms to 1 s set in 100-ms increments, and 1 to 5 s set in 1 s-increments)			
	Automatic power control (APC)	High-speed control method for emission current				
	Zero-reset	---	Negative values can be displayed. (Threshold value is shifted.)			
	Initial reset	Settings can be returned to defaults as required.				
	Mutual interference prevention	Possible for up to 10 Units *3				
Display		Operation indicator (orange)	Operation indicator (orange), Power Tuning indicator (orange)			
Digital display		incident level + threshold	Select from incident level + threshold or other 6 patterns			
Display orientation		---	Switching between normal/reversed display is possible.			
Ambient illumination (Receiver side)		Incandescent lamp: 10,000 lux max. Sunlight: 20,000 lux max.				
Ambient temperature range		Operating: Groups of 1 to 2 Amplifiers: -25°C to 55°C Groups of 3 to 10 Amplifiers: -25°C to 50°C Groups of 11 to 16 Amplifiers: -25°C to 45°C Storage: -30°C to 70°C (with no icing or condensation)				
Ambient humidity range		Operating and storage: 35% to 85% (with no condensation)				
Insulation resistance		20 MΩ min. (at 500 VDC)				
Dielectric strength		1,000 VAC at 50/60 Hz for 1 minute				
Vibration resistance		Destruction: 10 to 55 Hz with a 1.5-mm double amplitude for 2 hrs each in X, Y and Z directions				
Shock resistance		Destruction: 500 m/s ² , for 3 times each in X, Y and Z directions				
Degree of protection		IEC 60529 IP50 (with Protective Cover attached)				
Connection method		Pre-wired or amplifier unit connector				
Weight (packed state)		Pre-wired model: Approx. 100 g, Amplifier unit connector model: Approx. 55 g				
Materials	Case	Polybutylene terephthalate (PBT)				
	Cover	Polycarbonate (PC)				
Accessories		Instruction manual				

*1. Communications are disabled if the detection mode is selected during super-high-speed mode, and the communications functions for mutual interference prevention and the Mobile Console will not function.

*2. PNP output is as follows: Operate: 53 μs, reset: 55 μs.

*3. Mutual interference prevention can be used for only up to 6 Units if power tuning is enabled.