



Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for OMRON E3X-SD. You'll find the answers to all your questions on the OMRON E3X-SD in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual OMRON E3X-SD
User guide OMRON E3X-SD
Operating instructions OMRON E3X-SD
Instructions for use OMRON E3X-SD
Instruction manual OMRON E3X-SD

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Easy-teach digital fiber amplifier
E3X-SD

The E3X-SD easy-teach fiber amplifier is the ideal solution for all standard fiber applications. The one-button teaching and/or the simple threshold adjustment with up/down keys and the easy to read display allow an intuitive usage and fast set-up.

- easy one-button teaching
- easy to read display and simple threshold adjustment with up/down keys for intuitive usage
- GIGA RAY LED for high performance and precision



Ordering Information

Shape	Item	Order code	
		NPN output	PNP output
	Pre-wired	E3X-SD21 2M	E3X-SD1 2M
	Fiber amplifier connector ¹⁾	E3X-SD7	E3X-SD8

¹⁾ Order connector separately for M8 connector models see E3X-CA-B.

Amplifier Unit Connectors (sold separately)

Shape	Type	Comment	Order code
	Fiber amplifier connector	2 m PVC cable	E3X-CN21 ¹⁾
		30 cm PVC cable with M12 plug connector (4 pin)	E3X-CN21-M1J 0.3M
		30 cm PVC cable with M8 plug connector (4 pin)	E3X-CN21-M3J-2 0.3M

¹⁾ 4-wire version. For 3-wire version order E3XCN11.
Note: Stickers for Connectors are included as accessories.

Accessories (sold separately)

Mounting Brackets

Appearance	Model	Quantity
	E39-L143	1

End Plate

Appearance	Model	Quantity
	PPF-M	1

E3X-SD 1



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Manual abstract:

The one-button teaching and/ or the simple threshold adjustment with up/down keys and the easy to read display allow an intuitive usage and fast set up. · easy one-button teaching · easy to read display and simple threshold adjustment with up/ down keys for intuitive usage · GIGA RAY LED for high performance and precision Ordering Information Shape Item Order code NPN output PNP output Pre-wired E3X-SD21 2M E3X-SD51 2M Fiber amplifier connector*1 E3X-SD7 E3X-SD9 *1. Order connector separately. For M8 connector models see E3X-DA-S. Amplifier Unit Connectors (sold separately) Shape Type 2 m PVC cable Fiber amplifier connector 30 cm PVC cable with M12 plug connector (4 pin) 30 cm PVC cable with M8 plug connector (4 pin) *1. Comment Order code E3X-CN21*1 E3X-CN21-M1J 0.3M E3X-CN21-M3J-2 0.3M 4-wire version. For 3-wire version order E3X-CN11. Note: Stickers for Connectors are included as accessories.

Accessories (sold separately) Mounting Brackets Appearance Model E39-L143 Quantity 1 End Plate Appearance Model PFP-M Quantity 1 E3X-SD 1 Ratings and Specifications Amplifier Units Item Light source (wavelength) Red, 4-element LED (625 nm) Power supply voltage Power consumption/ Current consumption Control output Response time Sensitivity adjustment Protection circuits Mutual interference prevention Ambient illumination Number of gang-mounted Amplifiers Ambient temperature range Ambient humidity range Insulation resistance Dielectric strength Vibration resistance Shock resistance Degree of protection Connection method Weight (packed state) Material Accessories *1. E3X-SD@ 12 to 24 VDC 10%, ripple (p-p): 10% max. 960 mW max. (Power supply voltage: 24 V, Current consumption: 40 mA max.) (Power supply voltage: 12 V, Current consumption: 80 mA max.)

) Open-collector output (NPN or PNP) Load power supply: 26.4 V max., Load current: 50 mA max. (Residual voltage: 1.5 V max.) Light-ON/Dark-ON mode selector Operate or reset: 200 s max. UP/DOWN direct key setting, teaching with/without a workpiece, automatic teaching Power supply reverse polarity protection, output short-circuit protection, output reverse polarity protection Up to 5 Amplifiers (optically synchronized)*1 Receiver side Incandescent lamp: 10,000 lux max. Sunlight: 20,000 lux max. 16 max. (The ambient temperature specification depends on the number of gang-mounted Amplifiers.) Operating: Groups of 1 to 3 Amplifiers: 25C to 55C Groups of 4 to 11 Amplifiers: 25C to 50C Groups of 12 to 16 Amplifiers: 25C to 45C Storage: 30C to 70C (with no icing or condensation) Operating and storage: 35% to 85% (with no condensation) 20 M. min. (at 500 VDC) 1,000 VAC at 50/60 Hz for 1 minute Destruction: 10 to 55 Hz with a 1.5-mm double amplitude for 2 hours each in X, Y and Z directions Destruction: 500 m/s², for 3 times each in X, Y and Z directions IEC 60529 IP50 (with Protective Cover attached) Pre-wired (standard cable length: 2 m), or connector Pre-wired model: Approx. 100 g, Model with connector: Approx.

@@@The E3X-MC11 Mobile Console (sold separately) cannot be used. @@In this case, make the appropriate adjustments using the sensitivity adjuster. Mutual interference prevention is effective when E3X-SD-series Amplifiers are gang-mounted without other E3X-series Amplifiers. ! Caution Do not exceed the rated voltage. Excess voltage may result in malfunction or fire. Do not use an AC power supply. Using an AC power supply may result in rupturing.. High-temperature environments may result in burn injury. Mounting DIN Track Mounting/Removal Mounting Amplifier Units 1. Mount the Amplifier Units one at a time onto the DIN track. Precautions for Safe Use The following precautions must be observed to ensure safety. 1. Do not use the product in locations where flammable or explosive gas is present. 2. Do not use the product in locations subject to splashing water, oil, or chemicals, or in locations subject to steam. 3. Do not attempt to disassemble, repair, or modify the product. 4. Do not apply voltage or current in excess of the rated ranges. 5. Do not use the product in atmospheres or environments that exceed product ratings. 6. Do not wire the product incorrectly, such as using incorrect power supply polarity. 7. Connect the load properly. 8. Do not short-circuit both ends of the load. 9. Do not use the product if the case is damaged.

10. When disposing of the product, dispose of it as industrial waste. 11. Do not use the product in locations subject to direct sunlight. 12. The surface temperature of the product may rise as a result of the ambient temperature, power supply, or other usage conditions. Use caution when performing maintenance and washing. Failure to do so may result in burn injury. 2. Slide the Amplifier Units together, line up the clips, and press the Amplifier Units together until they click into place. Clip Click into place Removing Amplifier Units Slide Amplifier Units away from each other, and remove from the DIN track one at a time. (Do not attempt to remove Amplifier Units from the DIN track without separating them first.) Note 1. The specifications for ambient temperature will vary according to the number of Amplifier Units used together. For details, refer to Ratings and Specifications. 2. Always turn OFF the power supply before mounting or removing Amplifier Units. 4 Easy teach fiber amplifier Fiber Connection and Disconnection The E3X Amplifier Unit has a lock lever. @@@@2. @@@@In this case, use an End Plate. @@@@1. @@@@2. @@@@3. @@@@10.7 12.95 Two, 2.4 dia. 3.4 Two, 3.2 dia.

@@@cable / 3 conductors / Standard length: 2 m (Conductor cross section: 0.2s, codes, or regulations that apply to the combination of products in the customer's application or use of the product. @@@The following are some examples of applications for which particular attention must be given. This is not intended to be an exhaustive list of all possible uses of the products, nor is it intended to imply that the uses listed may be suitable for the products: · Outdoor use, uses involving potential chemical contamination or electrical interference, or conditions or uses not described in this document. · Nuclear energy control systems, combustion systems, railroad systems, aviation systems, medical equipment, amusement machines, vehicles, safety equipment, and installations subject to separate industry or government regulations. · Systems, machines, and equipment that could present a risk to life or property. Please know and observe all prohibitions of use applicable to the products. NEVER USE THE PRODUCTS FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE OMRON PRODUCT IS PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM. PERFORMANCE DATA Performance data given in this document is provided as a guide for the user in determining suitability and does not constitute a warranty.



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It may represent the result of OMRON's test conditions, and the users must correlate it to actual application requirements.

Actual performance is subject to the OMRON Warranty and Limitations of Liability. CHANGE IN SPECIFICATIONS Product specifications and accessories may be changed at any time based on improvements and other reasons. It is our practice to change model numbers when published ratings or features are changed, or when significant construction changes are made. However, some specifications of the product may be changed without any notice. When in doubt, special model numbers may be assigned to fix or establish key specifications for your application on your request.

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No. E67E-EN-01 In the interest of product improvement, specifications are subject to change without notice. OMRON EUROPE B.V. Wegalaan 67-69, NL-2132 JD, Hoofddorp, The Netherlands Phone: +31 23 568 13 00 Fax: +31 23 568 13 88 www.industrial.omron.eu 12 Easy teach fiber amplifier .



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