

Electric to Optical Converter Model EO3G-100A-xx Series

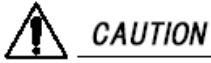


MAW184E V2.0

Safety Precautions

Instruction Manual

Use of controls or adjustments or performances other than those specified herein may result in hazardous radiation exposure.

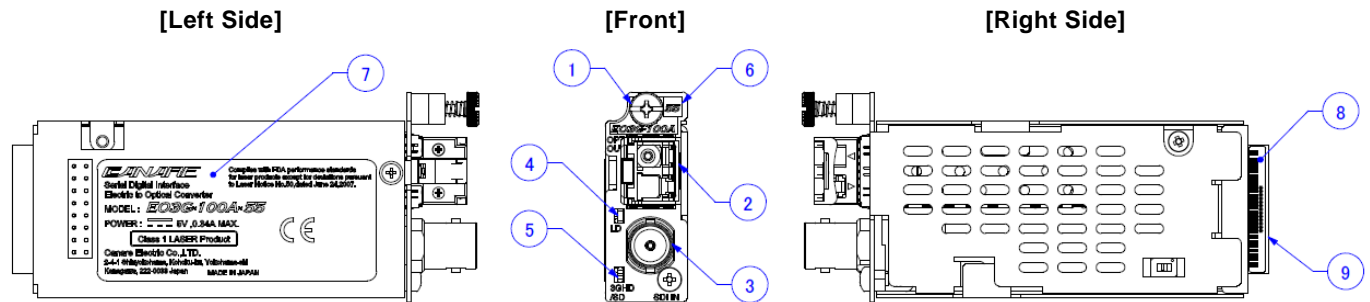


- EO3G-100A-xx series is a Class 1 laser product. Complies with 21 CFR 1040.10 and 1040.11 except for deviations pursuant to Laser Notice No.50 dated June 24, 2007.
- Do not look into the LC connector directly.
- Do not block the vents. The blocking raises an internal temperature and may cause damages.
- Ensure that dust caps are attached to LC connector and BNC connector for each when not in use.

General Description

- An electric to optical converter for 3G-SDI, HD-SDI, SD-SDI and DVB-ASI(multi rate, multi format) video transmission
- 16 wavelengths ranging from 1271nm to 1611nm available.
- Cable equalizer and re-clocker equipped
- Capable of receiving and transmitting the pathological test pattern (SMPTE RP-178, RP-198 Check Field Test Pattern)
- Recommended to install in Canare's 161UPSC / 6PSC converter platform

Outline & Functions



1) Captive Screw	To fix this product to the platform.
2) LC Connector	For connection with SM optical fiber.
3) BNC Connector	For connection with 75Ω coaxial cable to input SDI signal.
4) Status LED (LD)	Solid Green when laser is operating. Blink on and off when abnormal laser power is detected.
5) Status LED (SIGNAL RATE)	Solid Green when 3G-SDI or HD-SDI is input. Solid Yellow when SD-SDI or DVB-ASI is input. No lighting when input signal is not detected
6) Wavelength Label	Indicates the optical wavelength.
7) ID Label	Describes the model name, rating, certifications, and so on.
8) Connector Label	Production No. described.
9) DIN Connector(16-pin)	For the power supply and status signal outputs.

Table.1 Model name vs. wavelength

Model	Wavelength (nm)	Model	Wavelength (nm)
EO3G-100A-27	1271	EO3G-100A-47	1471
EO3G-100A-29	1291	EO3G-100A-49	1491
EO3G-100A-31	1311	EO3G-100A-51	1511
EO3G-100A-33	1331	EO3G-100A-53	1531
EO3G-100A-35	1351	EO3G-100A-55	1551
EO3G-100A-37	1371	EO3G-100A-57	1571
EO3G-100A-43	1431	EO3G-100A-59	1591
EO3G-100A-45	1451	EO3G-100A-61	1611

Mounting the Converter in the Power Unit

1. Install this product into the mounting slot of the platform* by gripping the captive screw as shown in Figure 1.
Note: platform*: 6PSC, 161UPSC
2. Align the captive screw to correspond to the screw hole in the platform, and tighten securely with a Philips head screw driver to secure this product.
3. Connect coaxial cable to this product's BNC connector.
4. Connect optical fiber to this product's LC connector.

Note) Be sure to keep the ferrule tip of the plug clean as shown in Figure 2.
If a fiber-optic connector becomes dirty, signal loss may be increased.



Figure.1 EO converter installation

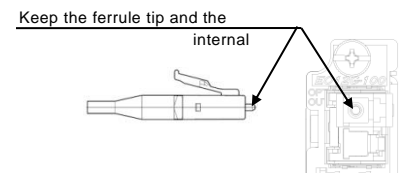


Figure.2 Cleaning portion

Specifications

Transmission Signals:	: 3G-SDI/HD-SDI/SD-SDI/DVB-ASI	Operating Temperature :	: 0°C to 40°C (no condensation)
Light Emission Wavelength	: 1271nm~1611nm (DFB-LD)	Storage Temperature :	: -40°C to 85°C
Optical Fiber	: 1-core single mode	Power Source :	: +5VDC ±0.5V
Fiber-Optic Connector	: LC type	Power Consumption :	: Max. 1.7W
Laser Product Class	: Class1, IEC60825-1	Weight :	: Approx. 95g
Maximum Light Emission Level	: +5dBm	Dimensions :	: 78.4mm(D)×43.4mm (H)×17mm (W) (excluding connectors)
EMC	: FCC part15 Subpart B Class A : EN55032 Class A, EN55024	Accessories :	: LC connector dust cap 1 : BNC connector dust cap 1

The exterior features and specifications in this document are subject to change due to modification without prior notice.