Optical to Electric Converter
OE12G-101B

MAW250E V2.0

Safety Precautions

Instruction Manual

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

CAUTION

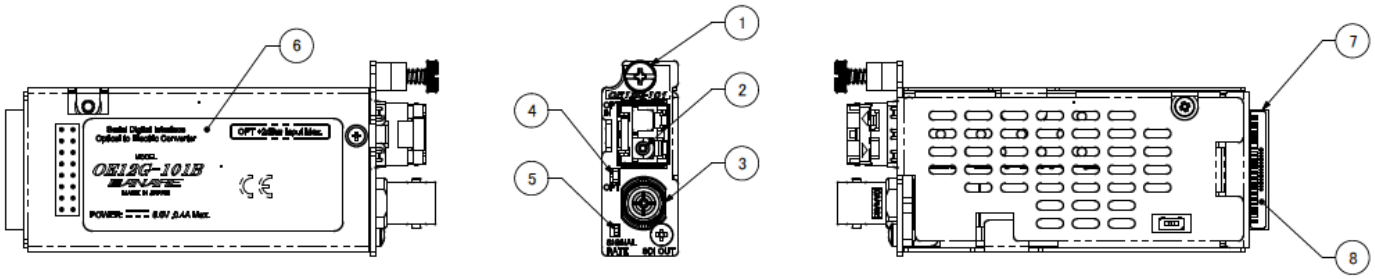
- Do not block the vents. The blocking raises an internal temperature and may cause damages.
- Ensure that the dust caps are attached to LC connector and BNC connector for each when not in use.

General Description

- An optical to electric converter for 12G-SDI, 6G-SDI, 3G-SDI, HD-SDI, SD-SDI and DVB-ASI(multi rate, multi format) video transmission
- Cable driver and re-clocker equipped
- Capable to receive optical wavelength from 1260nm to 1650nm
- 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

[Left Side] **[Front]** **[Right Side]**



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 output the signal.
4) Status LED (OPT)	Green light on when optical signal is being received.
5) Status LED (SIGNAL RATE)	Blue light on when 12G-SDI or 6G-SDI signal is input. Green light on when 3G-SDI or HD-SDI signal is input. Yellow light on when SD-SDI or DVB-ASI with 270Mbps signal is input.
6) ID Label	Describes the model name, rating, certifications, and so on
7) DIN Connector(16-pin)	For the power supply and status signal outputs.
8) Connector Label	Production No. described.

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.

Figure.1 OE converter installation

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.

Caution) Be sure to only use OE12G-101B combined with EO12G-100B.
If combining with other series of converters to use, it can cause poor performance in data transmission.

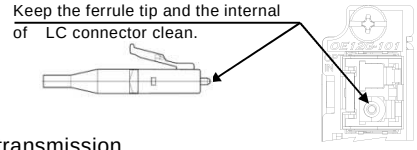


Figure.2 Cleaning portion

Specifications

Transmission Rate with re-clocking :
11.88Gbps, 11.88/1.001Gbps, 5.94Gbps, 5.94/1.001Gbps, 2.97Gbps, 2.97/1.001Gbps, 1.485Gbps, 1.485/1.001Gbps, 270Mbps

Light Reception Wavelength	: 1260nm to 1650nm
Optical Fiber	: 1-core single mode
Fiber-Optic Connector	: LC type
Minimum Light Reception Level	: -10.0dBm @12G-SDI/6G-SDI
	: -17.0dBm @3G-SDI/HD-SDI/SD-SDI/DVB-SDI
Overload Optical Power	: +2.0dBm
Device Damaging Optical Power	: +6.5dBm
EMC	: FCC part15 Subpart B Class A
	: EN55032 Class A, EN55024

Operating Temperature	: 0℃ to 40℃ (no condensation)
Storage Temperature	: -40℃ to 85℃
Power Source	: +5VDC ±5%
Power Consumption	: Max. 2.0W
Weight	: Approx. 95g
Dimensions	: 78.4mm(D)×43.4mm (H)×17mm (W) (excluding connectors)
Accessories	: LC connector dust cap 1
	: BNC connector dust cap 1

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