

DC Time Code (Unmodulated DCLS)

IRGT/IRGR-7001

For High Quality DC Time Code Point-to-Point Signal Transmission

The **LuxLink**[®] IRGT/IRGR-7001 system consists of the IRGT-7001 transmitter and IRGR-7001 receiver. Both units are designed for the transmission of high quality unmodulated DCLS DC time codes from 1 pulse per second through 10,000 pulses per second in accordance with conventional IRIG derived time codes (IRIG A though H)

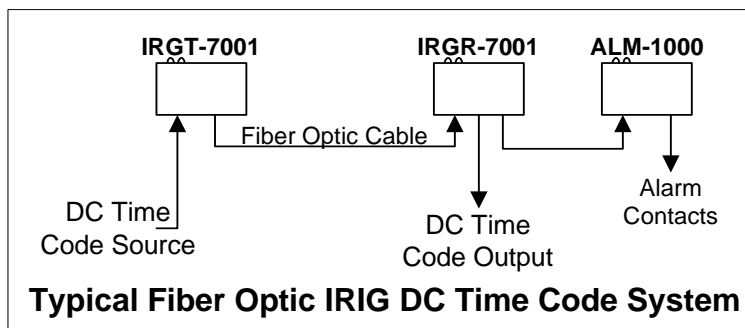
Transmission distances of more than 10Km (6.3 miles) is achievable and installation is adjustment free. In addition, integral LEDs are provided on both units to continuously indicate the presence of TTL signals as well as the presence of operating power making system troubleshooting simple.



Technical Specifications

Data Rate	1 pulse/sec to 10,000 pulse/sec
Rise / Fall Time	20 nsec typical
Input / Output Impedance	50 ohms
Input / Output Level	0/5 volts typical (TTL)
Output Drive Current	40 mA maximum
Bit Error Rate	10E9 minimum
System Delay	45-55ns for multimode 25-35ns for single-mode
Operating Wavelength	850, 1310 or 1550 nm
Optical Loss Budget	0-12dB (multimode or single-mode)
Optical Connectors	ST (multimode) FC/PC (single-mode)
Signal Connector	BNC
MTBF (MIL-HDBK-217)	>100,000 Hours
Operating Temperature	-35° to +75°C
Humidity	<95% non condensing
Power Requirements	11-24 VAC/DC @ 150 mA
Physical Size (mm)	5.0"(127)x3.0"(76)x1.0"(25.4)

Note: That all specifications are subject to change without prior notice.



Important Features

- **DC Coupled**
- **12 dB Loss Budget**
- **Signal & Power Indicators**
- **Stand-alone, DIN or Rack Mountable (same unit)**

Ordering Information

Transmitter, IRGT-7001-X
Receiver, IRGR-7001-X

"X" = Wavelength/Fiber

-1 = 850nm Multimode, ST
-3 = 1310nm Multimode, ST
-7 = 1310nm Single-mode, FC

For stand-alone operation order a PS-1205 power supply for each unit.

For rack mounted operation all operating power is provided by the power supply used with the rack panel.