# Wiegand® / Contact Transmitter    WCT/WCR-7001

## *For Industry Standard Wiegand Applications*

The *Litelink®* WCT/WCR-7001 system consists of the WCT-7001 transmitter and WCR-7001 receiver. Both units utilize digital encoding techniques to transmit and receive the Wiegand interface and a contact closure over a single optical fiber conductor. The Wiegand interface industry standard, SIA AC-01 (1996.10), defines a commonly used interface between card readers and control panels used for Access Control, Security, Time and Attendance, and other related industries.
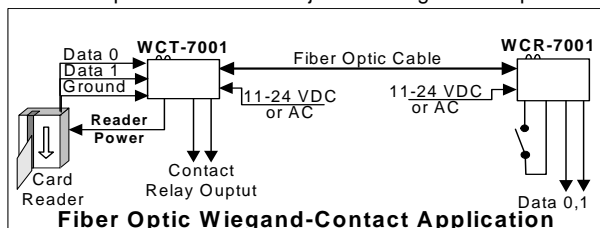
Both multimode and single-mode versions are available and installation is adjustment free. Integral LEDs are provided on both units to continuously indicate the presence of Data 0, Data 1 signals, and operating power making system troubleshooting simple. The WT-7001 also provides a regulated 5V DC output for powering access control devices.

## Technical Specifications

| | |
|---|---|
| Channels | Data 0 and Data 1 |
| Input / Output Level | 5 volts and 0 volts |
| Data Pulse Width | 20 to 100 usec typical |
| Data Pulse Interval | 1 to 2 msec typical |
| Indicator Lights | Pwr, Link, D0 D1, Alm, Cnt |
| Transmitter Power Output | +5 VDC @500 mA(max) |
| Operating Wavelength | 850, 1310 or 1550nm |
| Optical Output Power | -15dBm (multimode) |
| | -15dBm (single-mode) |
| Optical Loss Budget | 0-12dB (multimode) |
| | 0-12dB (single-mode) |
| Optical Connectors | ST (multimode) |
| | FCPC (single-mode) |
| Signal Connector | Removable terminal block |
| Contact Rating | 0.5 A @125 VAC |
| | 1.0 A @ 24 VDC |
| Contact Type | SPDT |
| Operating Temperature | -35° to +75°C |
| Humidity | <95% non condensing |
| MTBF (per MIL HBK 217) | >120,000 hours |
| Power Requirements** | 11-24 VAC/DC @150 mA |
| Physical Size (mm) | 5.0" (127) x 3.0" (76) |
| | x 1.0" (25.4) |

Note that all specifications are subject to change without prior notice.



**Fiber Optic Wiegand-Contact Application**

## Important Features

- *Single fiber*
- *Signal & Power Indicators*
- *Multimode or Single-mode versions*
- *Stand-alone, DIN or Rack Mountable (same unit)*

### Ordering Information

Transmitter    WCT-7001-X
Receiver       WCR-7001-X

"X" = Wavelength/Fiber

-1 =  850nm Multimode
-3 = 1310nm Multimode
-7 = 1310nm Single-mode
-9 = 1550nm Single-mode

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

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

Wiegand® is a trademark of EMERSON ELECTRIC CO, and is used here to indicate the "Access Control Standard - Wiegand™ Card Reader Interface: SIA AC-01 (1996.10)"

## Litelink®
Fiber Optic Transmission Systems

www.LiteLink.com
USA 516-931-2800