

Fiber Optic Supervised Contact Closure

CT/CR-7204

Contact Closure for Fire Alarm Status Monitoring Applications

The **Liteway**® CT/R-7204 system consists of the CT-7204 transmitter and CR-7204 receiver. The system utilizes digital encoding techniques to transmit and receive four separate contact closures over a single optical fiber conductor.

The CT-7204 inputs are activated via a supervised contacts closure. The CR-7204 will reproduce these inputs as isolated output contact closures corresponding to the respective input signal. All inputs are transient protected against excessive surges present on the signal and power leads. The link is completely fail-safe in that a loss of operating power at transmitter or a broken fiber will Rx contacts will remain in their last known position, and an alarm (trouble) relay will close. Integral indicators are provided on both units to continuously indicate the link and contact closures status as well as proper operating power thereby making system troubleshooting simple.



Technical Specifications

Important Feature

Number of Channels	Four independent channels
Transmitter Input	Supervised Contact Closure
Receiver Output	Relay Contact Closure
Output Contact switching	0.5 A @ 125 VAC (62.5VA) 1.0 A @ 24 VDC
Output Contact carry current	2.0 Amps maximum
Output Contact Resistance	100 milliohms maximum
Speed of Response	300 ms maximum
Operating Wavelength	850, 1310 or 1550nm
Optical Output Power	-15dBm (multimode) -15dBm (single-mode)
Optical Loss Budget	0-10dB (multimode) 0-12dB (single-mode)
Optical Connectors	ST (multimode) FCPC (single-mode)
Signal Connector	Removable Terminal Block
Operating Temperature	-35° to +75°C
Humidity	<95% non condensing
MTBF (per MIL HBK 217D)	>120,000 hours
Power Requirements	11-28 VAC/DC @ 110 mA
Physical Size (mm)	5.0"(127)H x 1.0"(25.4)W x 3.0"(76)L

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

- **Four Independent Contacts on One Fiber**
- **Signal, Power, Link, & Contact Indicators**
- **Multimode or Single-mode fiber versions**
- **Stand-alone, DIN Rail or Rack Mountable options**

Ordering Information

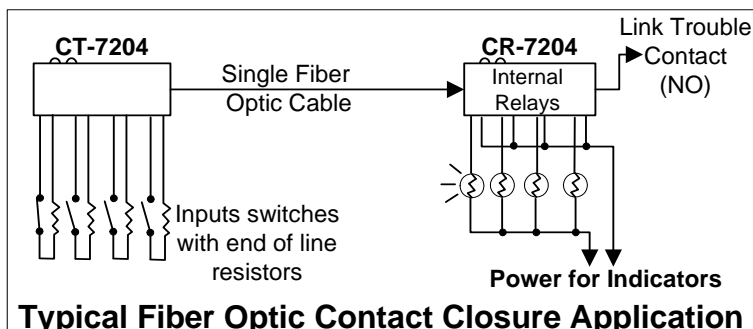
Transmitter	CT-7204-X
Receiver	CR-7204-X

"X" = Wavelength/Fiber
-1 = 850nm Multimode,ST
-3 = 1310nm Multimode,ST
-7 = 1310nm Single-mode,FC
-9 = 1550nm 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 power supply used with the rack-mounting panel.

The CT/CR-7204 is manufactured and patented in the U.S.A.



Liteway®

Fiber Optic Transmission Systems

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