Supervised Contact Closure — CT-7108

For critical contact closure monitoring applications

The CT-7108 transmitter and CR-7008 receiver system transmits supervised status of eight separate contact closures over a single optical fiber conductor.

To close a contact, the voltage at the CT-7108 input must be within predetermined range. Any voltage that differs from the predetermined values will result in an open contact condition at both the transmitter and companion CR-7008 receiver. If the CT-7108 loses power or the fiber is cut the CR-7008 contacts will open and alarm condition will be indicated.

All inputs are transient protected against excessive surges on the signal and power leads. Integral indicators are provided on both units to continuously indicate the link and contact closures status as well as proper operating power to simplify troubleshooting.

Technical Specifications

Number of Channels	Eight
Transmitter Input to close	2.91 and 3.70 DC volts
Tx Input Impedance to Gnd	2 K Ohms ±1%
Receiver Output	Relay Contact Closure
Output Contact switching A	0.5 A @ 125 VAC (62.5VA) 1.0 A @ 24 VDC
Output Contact carry current	2.0 A maximum
Output Contact Resistance	100 milliohms maximum
Speed of Response	10 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
Power Requirements	11-24 VAC/DC @210 mA
Physical Size (mm)	5.0" (127)H x 1.0" (25.4)W x 7.0" (178)L

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

Important Feature

- ***Eight Independent Contacts on One Fiber***
- ***Signal, Power, & Link Indicators***
- ***Multimode or Single-mode versions***
- ***Stand-alone or Rack Mountable***

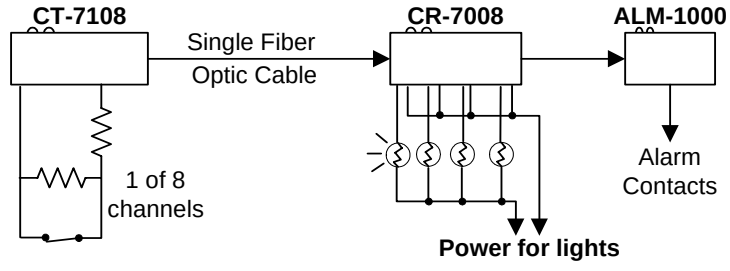
Ordering Information

Transmitter	CT-7108-X
Receiver	CR-7008-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.



Typical Fiber Optic Contact Closure Application

LuxLink™
www.luxlink.com
166 Haverford Road
Hicksville, NY 11801
USA 516-931-2800