

WARRANTY

All fiber optic transmission systems, products and accessories manufactured by Liteway, Inc. and its subsidiaries are fully tested prior to shipment and are warranted against defective materials and workmanship for a period of five full years from the date of the original shipment. Should a problem occur, a Return Material Authorization Number (RMA) must be obtained from Liteway Inc. at (516) 931-2800 and the item returned to Liteway, Inc. 166 Haverford Road, Hicksville, NY 11801, USA, prepaid. Liteway Inc. will then, at its option repair or replace the defective item.

Liteway, Inc. maximum liability under this warranty is limited to the cost of the defective item only. No contingent liabilities of any kind are either assumed or implied.

Any items returned to Liteway, Inc. that have been misused, abused, damaged, modified, connected or adjusted in any way contrary to the instructions furnished by Liteway, Inc. or repaired by unauthorized personnel will not be covered by this warranty. Any non-warranty repairs required will be quoted at the current rate for such services.



Important Notices



CAUTION ! AVOID DIRECT EXPOSURE TO BEAM.

All -5, -7, -8, and -9 Models use laser diodes. These solid-state laser diodes are located in the optical ports of these units. Laser diodes produce invisible radiation that may be harmful to human eyes. Never look directly into the optical port of any fiber optic unit designed to operate with single-mode optical fiber.

NOT FOR LIFE SUPPORT SYSTEMS

Liteway, Inc. does not authorize or warrant any of its products or accessories for use in critical life support systems or applications of any kind.

OPERATING INSTRUCTIONS



Litelink® Fiber Optic Contact Closure Transmission System

CT-7008, CR-7008

The CT/CR-7008 system consists of the CT-7008 transmitter and CR-7008 receiver and will transmit eight independent contact closures over a single fiber optic conductor.

Technical Specifications

Number of channels	8 Independent contacts
Speed/Response Time	10 milliseconds maximum
Transmitter Input	Contact closure or TTL level
Transmitter input impedance	3 K ohms maximum
Receiver Output	Isolated contacts
Output Contact Ratings	0.5 A @ 125 VAC (62.5VA) 1.0 A @ 24 VDC
Output Contact Resistance	100 milli-ohms maximum
Operating Wavelength:	850nm, 1310nm, or 1550nm
Optical Loss Budget	0 to 10 dB (0-12 if single mode)
Signal Connectors	Removable Terminal Block
Operating Temperature Range	-35° to +75° C
Operating Power CT-7008	11 to 24V AC/DC @ 110 mA
Operating Power CR-7008	11 to 24V AC/DC @ 210 mA
Physical Size (mm)	5.0"(127)L x 1.0" (25.4)W x 3.0"(76)D

All specifications measured with 1Km of 62.5μ multimode fiber.

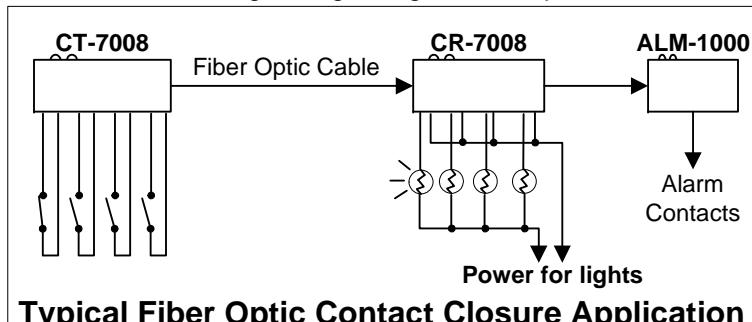
All specifications are subject to change without prior notice.

Installation Instructions

The CT-7008 may be activated by dry contacts or TTL signals and the CR-7008 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 unit is completely fail-safe, that is, in the case loss of operating power or a broken fiber will force all contacts to the open condition. 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.

The diagram below shows the typical installation of the CT-7008 and CR-7008 fiber optic contact closure transmission units.

Note that when TTL inputs are used, a logic 1 signal signifies a contact closure and a logic 0 signal signifies an open contact. Also



Typical Fiber Optic Contact Closure Application

note that the CR-1008.receiver output contacts are fully isolated from each other and any other terminal.

The Alarm switch is used to turn the alarm function on and off.

Indicator Lights

Indicator	Lights when
Pwr	Proper power is present.
Alrm	Loss of the optical carrier occurs. This usually signifying a broken fiber or excessive optical path loss.
Contact	A closed contact is present at the respective input or output.
Link	Transmitter: Internal circuitry is operational Receiver: A fiber optic is present.

105966 Rev K

Power Terminal Block Connections

Pin	Function
3	AC or DC return (Common to Housing), Ground
2	+11 to 24 DC or AC
1	Alarm output for use with optional Alarm Sensing Unit ALM-1000.

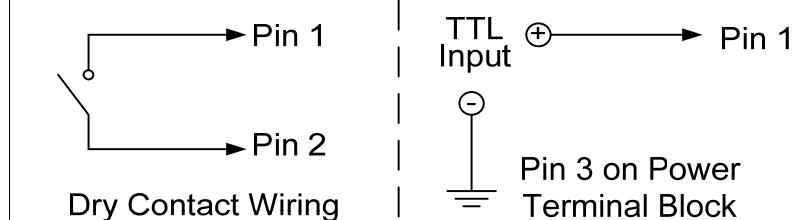
Be certain to check all connections, settings and voltages before applying power

Signal Terminal Block Connections are as follows;

Pins 1, 2	= Channel 1	Pins 9, 10	= Channel 5
Pins 3, 4	= Channel 2	Pins 11, 12	= Channel 6
Pins 5, 6	= Channel 3	Pins 13, 14	= Channel 7
Pins 7, 8	= Channel 4	Pins 15, 16	= Channel 8

The CT-7008 Pins 2, 4, 6, 8, 10, 12, 14 and 16 are common to each other and connected to +5 VDC.

Example CT-7008 Input Wiring for Channel 1



All the CR-7008 output contacts are isolated from each other as well as the housing. The CR-7008 output contacts are capable of switching 0.5A at 125VAC (62.5VA), or 1.0A at 24 VDC.

Fail Safe operation

If the fiber is broken or the transmitter loses power, the receiver contacts will all go to the OFF state.

Litelink®

Fiber Optic Transmission Systems

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