

WARRANTY & LIABILITY

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 www.liteway.com and the item returned to a USA Liteway, Inc. Location 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 standard products or accessories for use in critical life support systems or applications of any kind. Please contact us for this critical specialty equipment.

OPERATING INSTRUCTIONS

Litelink® Fiber Optic Contact Closure Transmission System

CT-8001, CR-8001, CX-8001



The CT/CR-8001 system consists of the CT-8001 transmitter and CR-8001 receiver and will transmit one contact closure over a single fiber optic conductor. The CX-8001 is a receiver/repeater for “drop and repeat” configurations where necessary.

Technical Specifications

Number of channels	1
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 Carry Current	2.0 A maximum
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 Requirements	11 to 24V AC/DC @150 mA
Physical Size (mm)	5.0”(127)L x 1.0” (25.4)W x 3.0”(76)D

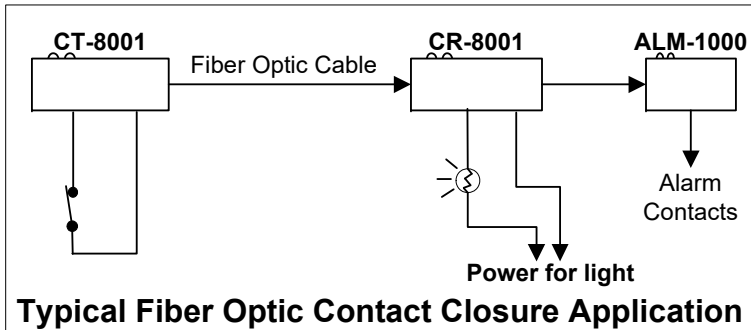
All specifications measured with 1Km of 62.5u multimode fiber.
All specifications are subject to change without prior notice.

Installation Instructions

The CT-8001 may be activated by dry contacts or TTL signals and the CR-8001 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 system is completely fail-safe. As a result, in the case of the loss of operating power or a broken fiber, all contacts will revert to the open condition.

The CX-8001 receives signals from a CT-8001, relays them to a CR-8001 and also provides a local contact closure output where required.

The diagram below shows the typical installation of the CT-8001 and CR-8001 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 note that the CR-8001 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	Power - Proper power is present.
Alm	Alarm - Loss of the optical carrier occurs. This usually signifies a broken fiber or excessive optical path loss.
Data	A closed contact is present at the respective input or output.

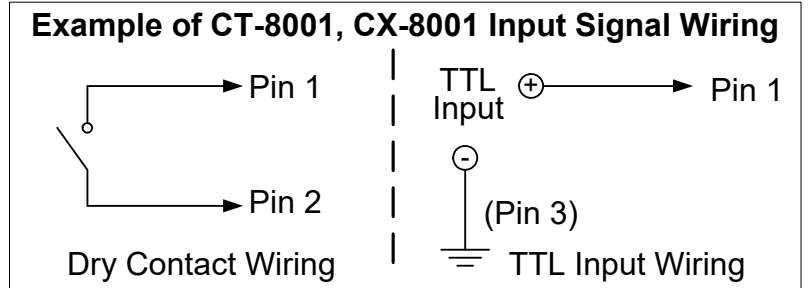
Power Terminal Block Connections

Pin	Function
3	AC or DC return (Common to Housing), Ground
2	+11 to 24 DC or AC Volts input
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

Pin	Function
1,2	Input contacts or TTL (see diagram below)
4,5	Output relay contacts*
3	Case ground and/or TTL common.



***Note that the output contacts are only capable of switching a maximum of 0.5 Amperes resistive at 125VAC or 1.0 ampere resistive at 24 VDC and are isolated from the housing and all other pins.**

Fail Safe operation

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