

# Eight independent contact closures or TTL signals transmitted over a single fiber

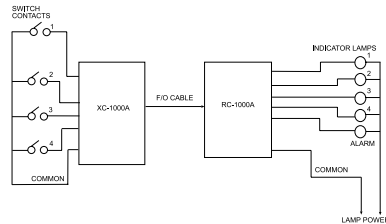
The Math Fiber Optics™ XC/RC-1000A system, consisting of the XC-1000A transmitter and RC-1000A receiver, transmits eight independent multiplexed channels over a single optical fiber. The system's transmitter is activated by eight dry contact closures or TTL signals (or a combination of both), while the receiver produces eight isolated output contact closures and TTL signals corresponding to the channels activated at the transmitter. From one to all eight channels may be used in any combination. LEDs on both units display the channels in use and an open collector output is provided for loss of signal.

## MODELS AVAILABLE:

- Multimode, 850 nanometers
- Multimode, 1300 nanometers
- Single mode, 1300 nanometers

## STANDARD FEATURES INCLUDE:

- Eight independent contacts on one fiber
- Contact and/or TTL operation
- Isolated output contact closures and TTL
- LED channel in-use indicator



## WARRANTY

All Math Fiber Optics transmission products are backed by a three-year warranty on parts and labor plus a 30-day satisfaction guarantee.

## XC/RC-1000A (Contact Closure Multiplexer)



## EQUIPMENT INCLUDED:

- Transmitter and Receiver must be purchased separately
- User's manual

## SPECIFICATIONS:

Number of Channels:	One to Eight
Transmitter Input:	Contact Closure or TTL
Receiver Output:	Contact Closure and TTL
Contact Closure Rating:	0.5A, resistive (10 VA)
Relay Status:	Normally open
Speed of Response:	2 msec typical
Allowable Transmission Loss:	50 micron fiber, 0-8 dB 62.5 micron fiber, 0-10 dB 8/10 micron fiber, 0-10 dB
Operating Wavelength:	850 or 1300 nm
Optical Connectors:	ST, multimode FCPC, single mode

Power Requirements\*: +10 to +18 VDC @ 200 mA  
(transmitter or receiver) or +10 to +18 VAC rms @ 200 mA

Physical Size: 4.2 x 1.8 x 5.6 in.  
(106.7 x 45.7 x 142.2 mm)

Operating Temp. Range: 0 to +50 degrees C

\*For operation from 115 VAC, 50/60 Hz, an XP-1000A plug-in adaptor is required for each module. For operation from 230 VAC, 50/60 Hz, an XP-1001 is required.

## ORDERING INFORMATION:

Module	850 nm	1300 nm
XMTR/Multimode	XC-1000A-1	XC-1000A-3
RCVR/Multimode	RC-1000A-1	RC-1000A-3
XMTR/Single Mode	_____	XC-1000A-7
RCVR/Single Mode	_____	RC-1000A-7

To order a rackmounted version of any of the above, add "-MCR" to the part number. Each module occupies one mounting slot in the MCR-1000A equipment shelf.