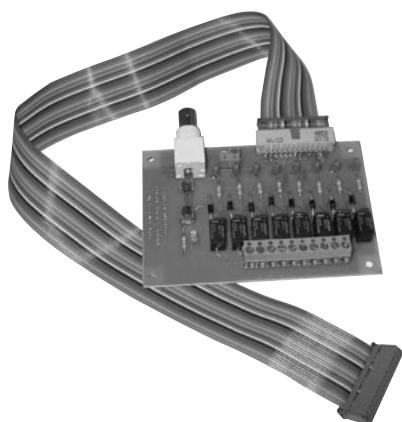




iPLAYER 2 RELAY INTERFACE BOARD



Color Kinetics® iPlayer® 2 Relay Interface Board simplifies connecting external devices to an iPlayer 2 expansion port, allowing selection of up to eight shows via dry-contact switch closures. The iPlayer 2 Relay Interface Board comes with a one foot (30 cm) ribbon cable to connect to the expansion port connector on the iPlayer 2 and interfaces to external devices through a 10-position screw terminal block.

Although dry-contact switches can be attached directly to the expansion port on the iPlayer 2, using the Relay Interface Board provides the following advantages:

- Simplified connection with screw terminals.
- A degree of electrical isolation to protect the iPlayer 2.
- More reliable switching from solid state relays such as: Lutron GRX/AV and ORX/AV
- Real-time status feedback with the indicator LEDs

See the Application Note, *Using the iPlayer 2 Expansion Port*, on the Color Kinetics website (<http://colorkinetics.com/support>) for more information.

iPLAYER 2 RELAY INTERFACE BOARD SPECIFICATIONS

POWER REQUIREMENT	24VDC at 50mA
FUSE	250V 2A fast blow (5 X 20 mm)
OVERALL DIMENSIONS	4.5" (11.4 cm) X 3.75" (9.5 cm) X 0.75" (1.9 cm)
POWER CONNECTORS	BNC connector (J1), 2-pin screw terminal (J2)
INTERFACE CONNECTORS	26-pin header ribbon cable connector (J3)
EXTERNAL DEVICE CONNECTOR	10-pin screw terminal (J4)

MOUNTING

The iPlayer 2 Relay Interface Board is provided as a bare circuit board (without enclosure) and a ribbon cable. It must be mounted in a protected location where it cannot be damaged. Care should be taken that metallic or other conducting objects do not touch any of the exposed circuitry on the front or back of the board.

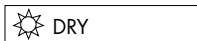
The board must be installed close enough to the iPlayer 2 so that the ribbon cable can connect between them without strain. If necessary a longer ribbon cable can be used, but its length should not exceed three feet (one meter).

WIRING

Wiring the iPlayer 2 Relay Interface Board requires connecting the 24 VDC power input, interfacing to the iPlayer 2 expansion port, and connecting the external devices for show selection.

- *Power Input.* Apply 24 volts DC to either the BNC connector (J1) or the 2-pin screw terminal block (J2). On the 2-pin screw terminal, pin 1 (inner most on the board) is ground, and pin 2 is +24VDC. Use the same power supply for the iPlayer 2 and the Interface Relay Board.
- *iPlayer 2 Expansion Port.* The 26-pin header connector (J3) connects the Interface Relay Board to the iPlayer 2 Expansion Port via the supplied ribbon cable.
- *External Devices.* Shows are selected by connecting one or more dry contact switches (normally open) to the pins 1 through 8 and to pin 10 (ground) on the terminal block (J4). Pin 9 is not used. See wiring diagrams for details.

Note: Keep wires on the terminal block as short as practical. Long runs (over 50 feet/15 meters) are possible, but take care to prevent electrical noise on the wires which could falsely trigger shows.



ITEM# 104-000010-00

U.S. PATENTS 6,016,038, 6,150,774 AND 6,340,868
EUROPEAN PATENT 1,016,062
OTHER PATENTS PENDING

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All other brand or product names are trademarks or registered trademarks of their respective owners.

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Specifications subject to change without notice.

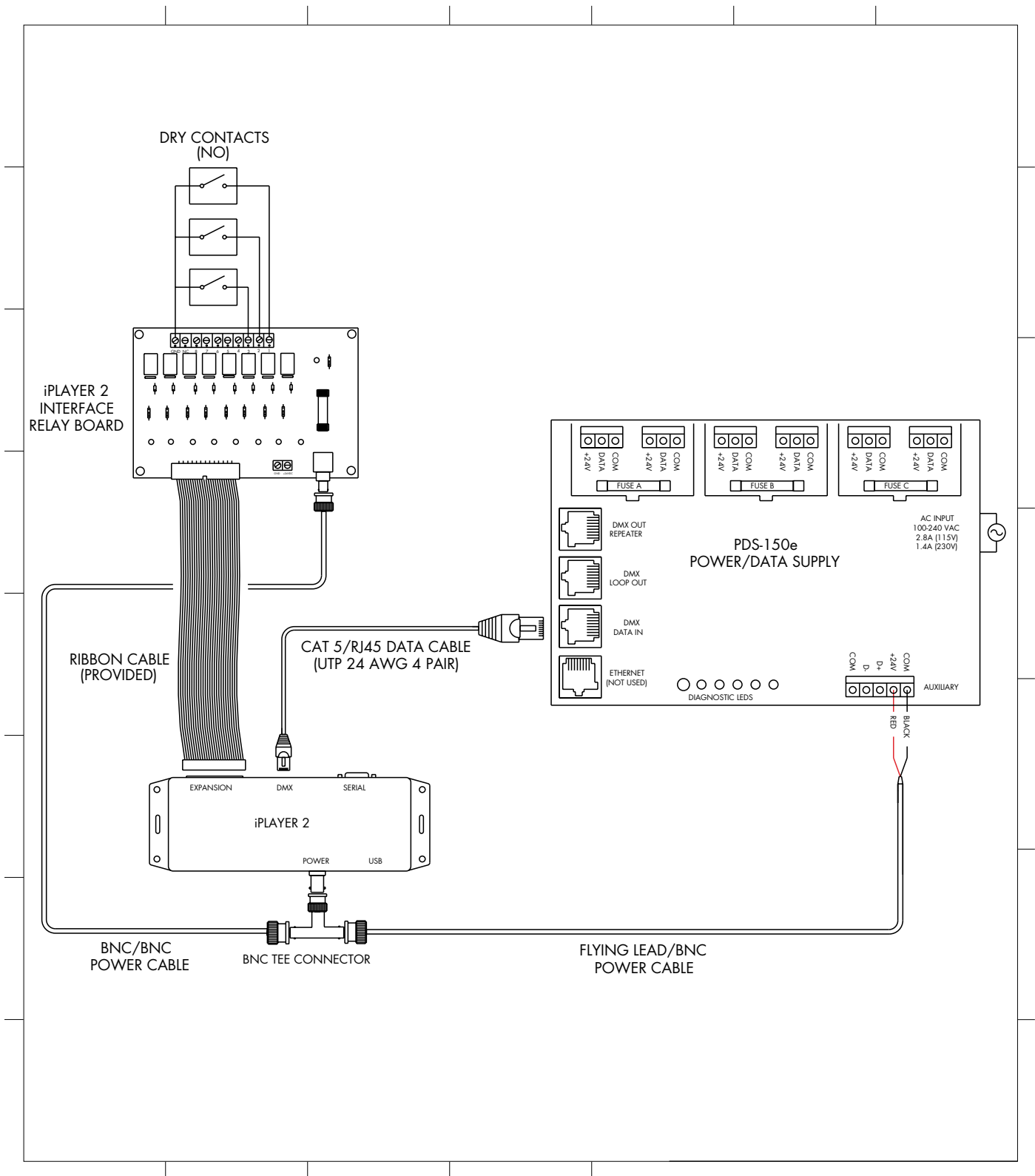
USAGE

The single green LED indicates that power is present on the board. The eight red LEDs indicate which show is currently playing. A blinking red LED indicates that a show was selected that does not exist on the iPlayer 2.

Select iPlayer 2 shows by momentarily shorting one of the pins 1 through 8 to ground on the J4 connector for at least 0.1 seconds. A pin may be left connected to ground if necessary, but the show selection is not defined if more than one pin is shorted at the same time.

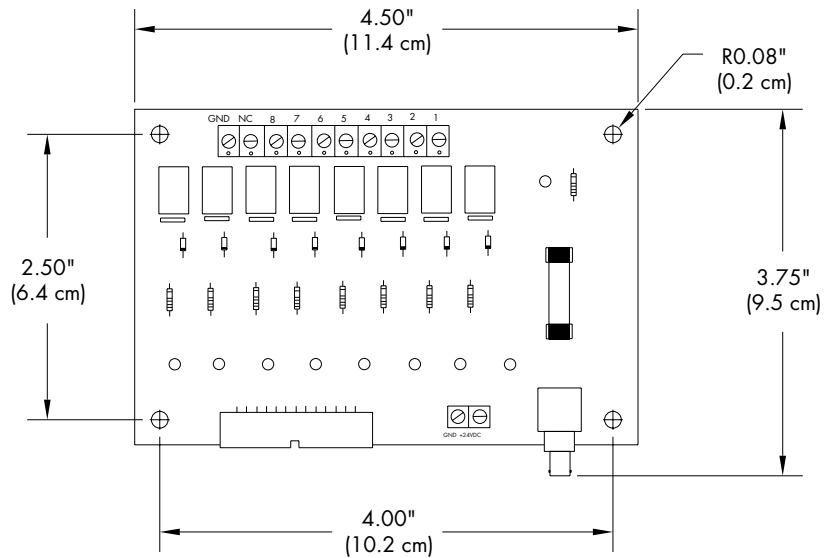
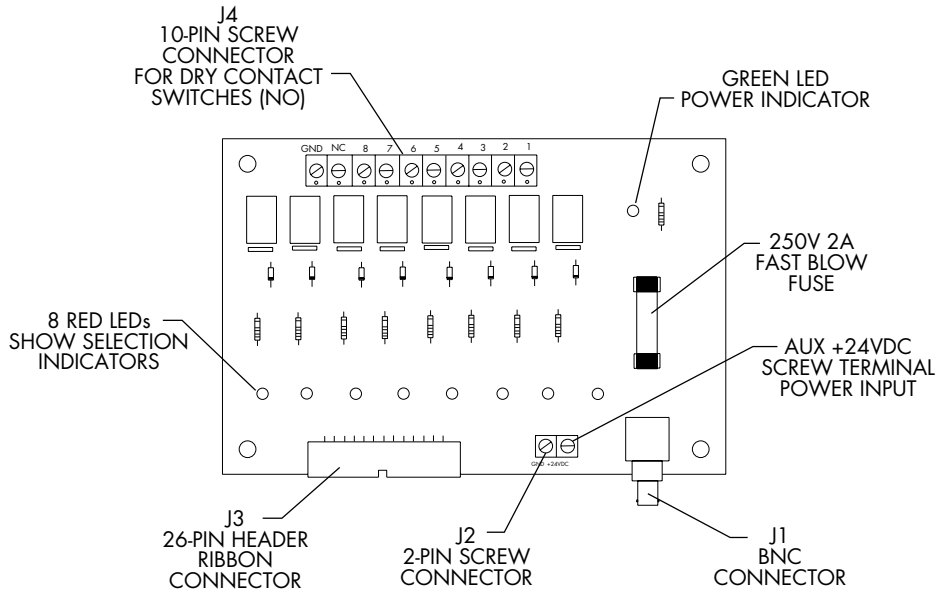
iPLAYER 2 RELAY INTERFACE BOARD

WIRING DIAGRAMS



iPLAYER 2 RELAY INTERFACE BOARD

PHYSICAL DIMENSIONS



iPLAYER 2 RELAY INTERFACE BOARD	
ITEM# 104-000010-00	
WEIGHT (APPROX)	4.0 lb (0.1 kg)
POWER CABLE	18AWG, 2-wire, or BNC
POWER REQUIREMENT	24VDC

U.S. AND FOREIGN PATENTS AND PATENTS PENDING

Color Kinetics Incorporated grants the purchaser of its lighting products and controllers a personal and non-transferable license to use Chromacore®, its patented technology for networkable control of LED-based color-changing lighting fixtures for illumination, display and design. This license is granted only by Color Kinetics Incorporated, and may not be transferred except by the grantor. The design, duplication, manufacture, or sale of other products using networkable control of LED-based color-changing lighting may be prohibited and is not licensed hereunder. Other patents pending.

MANUFACTURING DATA

To ensure the highest level of product reliability, this Color Kinetics design endured accelerated life test conditions including an operating temperature span of 360°F and cyclic loading up to 60G.