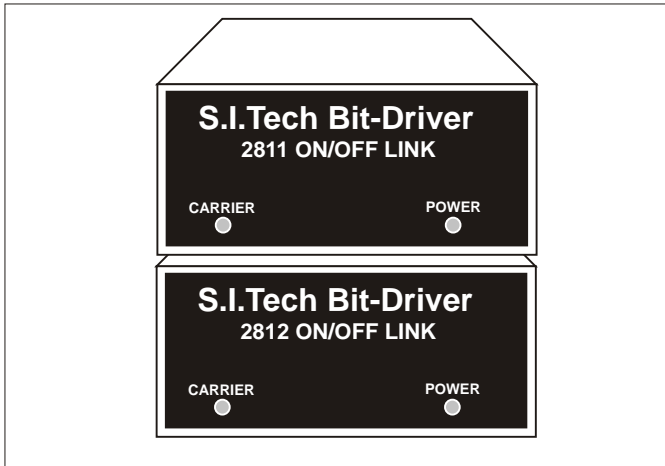


Model 2811 TR/2812 REC



ON-OFF Fiber Optic Link



The S.I.Tech Model 2811 TR transmits a 10 KHz optical square wave over optic fiber when power is applied and control input shorted. The 2812 receiver detects this optical square wave and turns ON a 4PDT relay. If the fiber cable is removed, broken, or the remote transmitter or local receiver loses power, the relay in the local receiver will turn OFF.

The 4 sets of Form C (4PDT) relay contacts are provided on the rear panel via screw terminal blocks. The power input (+12 VDC or +24VDC) is also via screw terminals.

The fiber optic input/output is provided on the rear panel via ST receptacles, 905/906 compatible SMA receptacles are available as an option.

The front panel contains 2 indicator LEDs, a power ON indicator and a CARRIER (10 KHz detected) indicator.

- Operation Mode:** Simplex
- Operating Wavelength:** 820 nanometers (1300 nm option)
- Optical Connector:** ST or SMA
- Power Requirements:** See Chart 1
- Input/Output:** See Chart 2
- Optical Power Budget:** 10_{dB}
- Operating Temperature:** 0 °C to 50 °C
- Altitude:** Less than 10,000 ft.
- Plastic Enclosure:** 6" X 6.5" X 2.75"
(15.2 X 16.5 X 7 cm)
- Weight:** 2 lbs. (1 kg)
- Mean Time Between Failure:** MTBF @ 25°C = 800,000 hours
MTBF @ 50°C = 300,000 hours
[Calculated using Belcore method]

*Meets FCC Requirements of Class A, Part 15 Computing Device Standard.
Specifications subject to change without notice.*

Operating Distance for Fiber Optic Cable

Fiber Size (Microns)	Attenuation dB/Km	Maximum Distance Feet/Meters
62.5	4.0	6600/2000
50	3.0	6600/2000
10 SM	1.0	16000/5000

SM - Single mode (1300nm) option

Chart 1: Maximum Power Requirements

Input	2811	2812
+12VDC	50mA	200mA
+24VDC	50mA	200mA

Chart 2: 2811and 2812 I/O Ratings

2811 Control Input	0 to 500 Closure Isolated from Power or Ground
2812 Contact Ratings Resistive Loads	Maximums
Switching Power	60W, 125VA
Switching Voltage	220VDC, 250VAC
Switching Current	2A
Carrying Current	3A

TYPICAL APPLICATION

