Bi-directional Optical to TTL Converter

Features
- Converts fiber-optic signals to TTL, and TTL to fiber-optic
- Selectable polarity
- Compact package

Applications
- Trigger and logic level signal delivery in distributed systems
- General-purpose signal conversion

Specifications
- Fiber-optic input: Avago HFBR-2515, 640 nm light (red)
- TTL output: TTL levels into 50 ohms. Polarity switch-selectable to be the same or inverted relative to the fiber-optic input.
- TTL input: TTL levels, input impedance high (> 1 Mohm) or 50 ohm, internal jumper selectable.
- Fiber optic output: Avago HFBR 1515, 640 nm light (red). Polarity switch-selectable to be the same or inverted relative to the TTL input.
- Propagation delay: <= 50 nsec optical to TTL, <= 50 nsec TTL to optical
- Power input: +24 +/- VDC, 100 mA max. Fused 1.1 A.
- Polarity switches: Independent toggle switches for optical to TTL, and TTL to optical.
- Case: Stainless steel sheet with mounting flange, IP43.
- Weight: 0.20 kg (0.44 lb)
Operating environment: 10 to 35°C, < 80% humidity, non-condensing, vibration < 1g all axes, 1 to 100Hz

Storage environment: 0 to 50°C, < 80% humidity, non-condensing, vibration < 2g all axes, 1 to 100Hz

Connectors:

Fiber optics: ST bayonet, dark gray (receiver), light gray (transmitter)

TTL: BNC jacks 50 ohm, two. Signal on core.

24 VDC input: 2.1 mm threaded jack. Mate with Switchcraft S761K or equivalent.
Pin: +24 VDC; Shell: 0V

Ground: Case grounded via mounting flange

Ordering information:

X22 Bi-directional Optical to TTL converter
MTG-DIN35-7662 DIN rail mounting adaptor

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