

TTL to Fiber Optic Digital Signal Converter



Features

- TTL to fiber-optic converter
- Powered by input signal - no additional power supply required
- Compact package
- Standard version for TTL input, wide input version for 24 V logic
- Compatible with X22 bidirectional converter acting as receiver

Applications

- Trigger and logic level signal delivery in distributed systems
- High voltage isolation
- Long distance transmission of digital signals

Specifications

Input voltage	TF1: TTL levels. TF1+: From TTL levels up to 24 V
Input current	10 mA minimum recommended drive current compliance, 30 mA for transmission over maximum fiber optic cable length or at full 10 MHz rate.
Fiber optic output	Broadcom (Avago) HFBR 1515BZ (ST bayonet) transmitter, 650 nm light (red). Compatible fiber optic: 200 μm core / 230 μm HCS cladding OFS CF1493-10
Propagation delay	<= 50 nsec TTL to optical
Maximum signal frequency	DC to 10 MHz (50% duty cycle)

Connectors

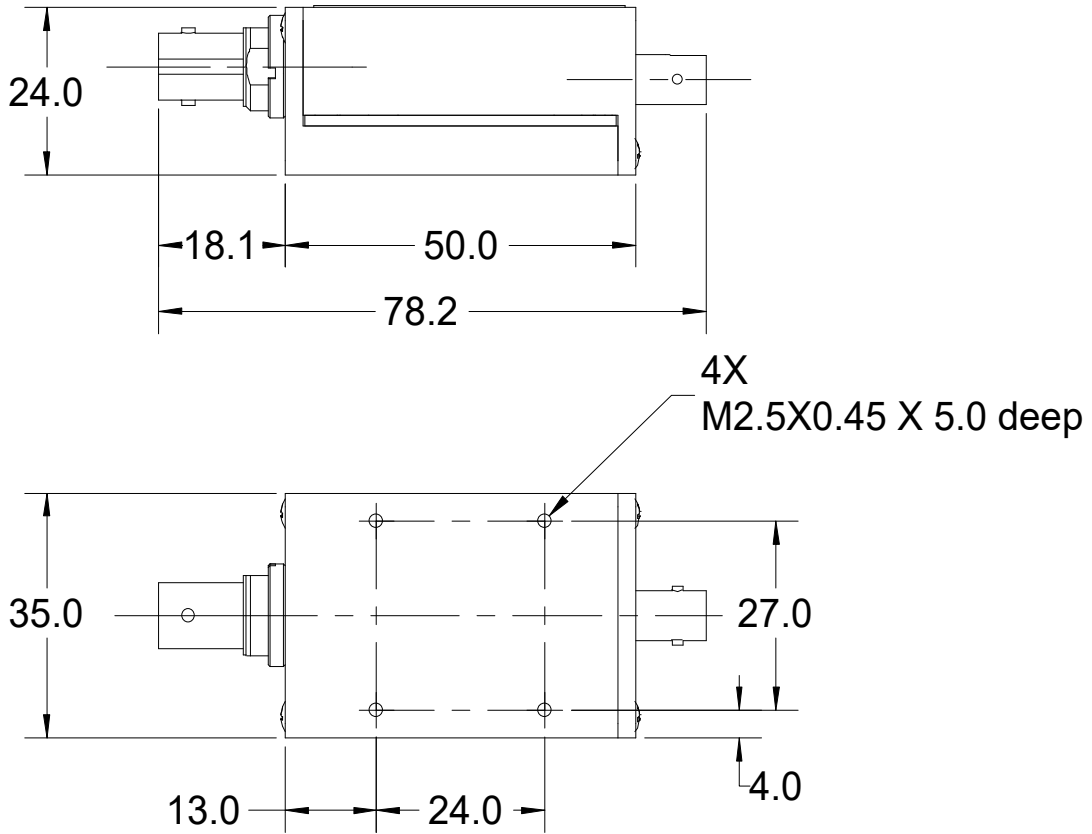
Input	BNC jack.
Output	TF1: ST bayonet HFBR-1515 fiber transmitter, plastic body TF1+: ST bayonet HFBR-1515 fiber transmitter, metal body

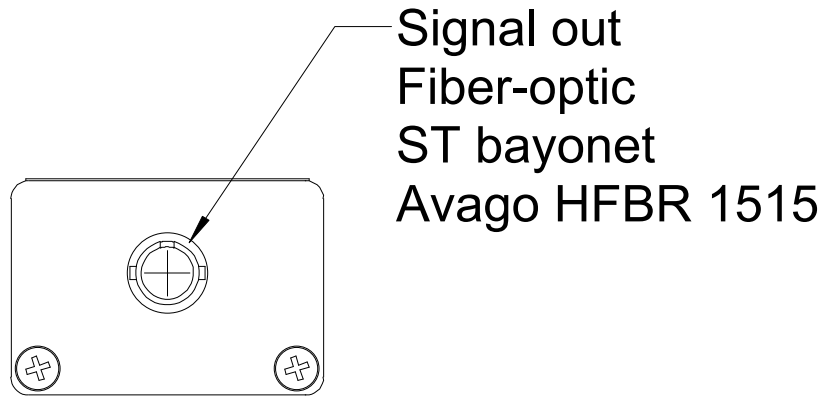
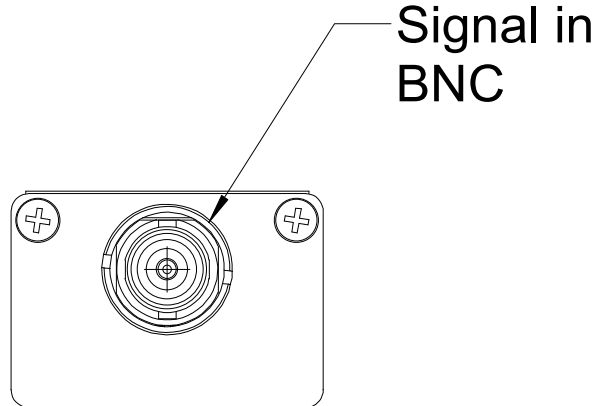
Environment

Operating	10 to 35C, < 80% humidity, non-condensing, vibration < 0.2 g all axes, 1 to 100Hz
Storage	0 to 50C, < 80% humidity, non-condensing, vibration < 2g all axes, 1 to 100Hz



Dimensions





Ordering information

TF1	TTL to fiber optic converter, ST bayonet fiber optic connector
TF1+	TTL or 24 V logic to fiber optic converter, metal ST bayonet fiber optic connector

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