

INSTRUCTION BULLETIN

CYBER SCIENCES EZ Connector for IRIG-B Input EZC-IRIG-B



The CYBER SCIENCES EZ Connector for IRIG-B (EZC-IRIG-B) is a wiring adapter for the CyTime™ SER-3200 Sequence of Events Recorder to facilitate wiring of an IRIG-B input signal. The adapter fits the “Options” port (DB15 connector) of the SER-3200 and makes the IRIG-B signals available via a removable, screw-type terminal, more suitable for power equipment applications. The connector can be positioned as shown to accept wires from the top, or rotated 90 degrees to accept wires from the front, saving space when needed.

The EZ-Connector also includes a diagnostics LED to aid system commissioning and troubleshooting. A red indicator LED flashes (flickers) according to the frequency of the IRIG-B signal (1 kHz) when a valid unmodulated IRIG-B signal is present, providing positive confirmation of correct wiring and polarity.

SAFETY PRECAUTIONS

⚠ DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

- Only qualified workers should install this equipment. Such work should be performed only after reading this entire set of instructions.
- NEVER work alone.
- Before performing visual inspections, tests, or maintenance on this equipment, disconnect all sources of electric power. Assume that all circuits are live until they have been completely de-energized, tested, and tagged. Pay particular attention to the design of the power system. Consider all sources of power, including the possibility of backfeeding.
- Apply appropriate personal protective equipment (PPE) and follow safe electrical practices. For example, in the USA, see NFPA 70E.
- Turn off all power supplying the equipment in which the device is to be installed before installing and wiring.
- Always use a properly rated voltage sensing device to confirm that power is off.
- Beware of potential hazards, wear personal protective equipment, and carefully inspect the work area for tools and objects that may have been left inside the equipment.
- The successful operation of this equipment depends upon proper handling, installation, and operation. Neglecting fundamental installation requirements may lead to personal injury as well as damage to electrical equipment or other property.

Failure to follow these instructions can result in death or serious injury.

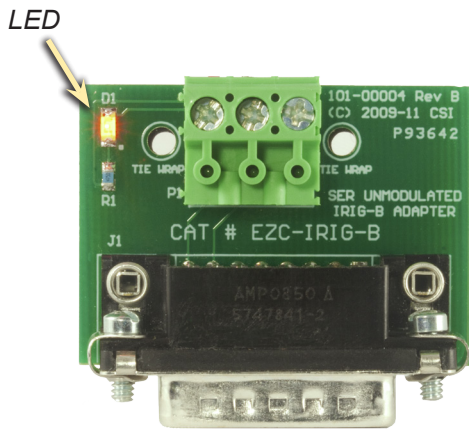
CYBER SCIENCES™

Power Reliability and Energy Efficiency. **Enabled.™**

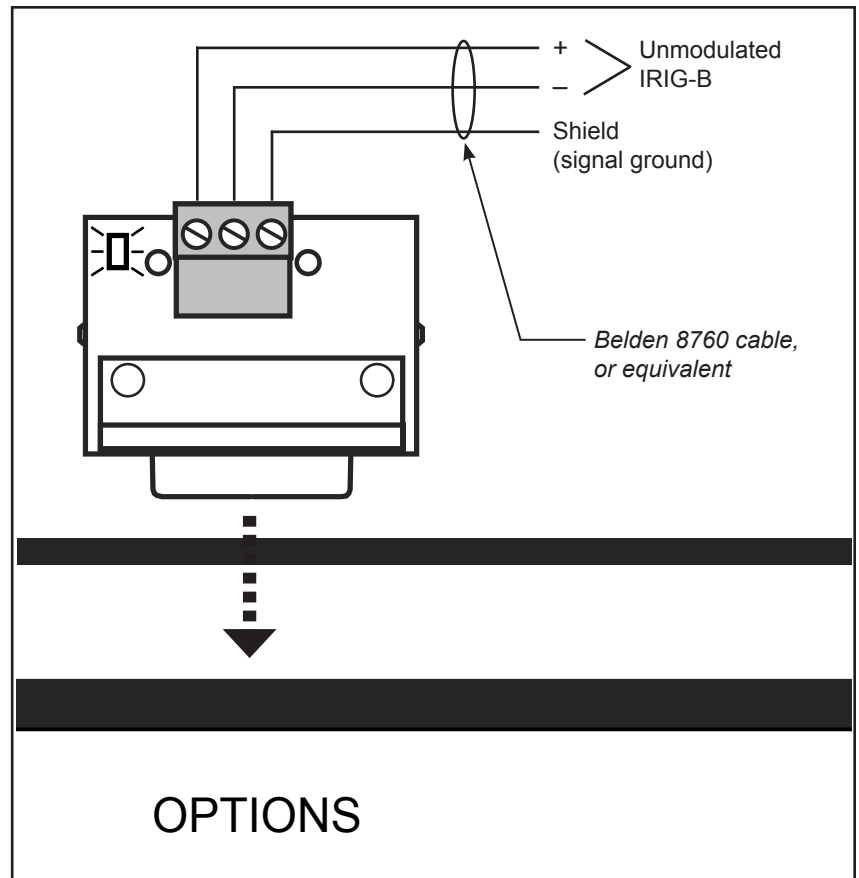
WIRING

Wiring of IRIG-B Signal

The wiring diagram below illustrates how to connect an unmodulated IRIG-B signal to the SER-3200 via the EZC-IRIG-B connector.



EZC-IRIG-B connector—flashing LED indicates presence of valid IRIG-B time signal



EZC-IRIG-B connector wiring connections (IRIG-B input to SER-3200)

TECHNICAL SPECIFICATIONS



Doc. no: IB-EZC-01R1
Feb-2011

Cyber Sciences, Inc. USA

SPECIFICATIONS

| | |
|--------------------|--|
| Diagnostics LED | One (1) Red LED: Flashing—Indicates IRIG-B time signal present. |
| Power Requirements | No separate power supply required. (Power derived from SER-3200.) |
| Environmental | -30°C to +80°C ambient operating temperature. -40°C to +85°C storage temperature. Humidity 5-95% (non-condensing) at 40°C. |
| Mounting | Connects to SER-3200 Options Connector (DB-15) |
| Dimensions | 1.77 in. wide, 1.50 in. high, 0.56 in. deep (45 x 38 x 14 mm) |
| Weight | approximately 0.5 oz. (14 g) |