INSTRUCTION BULLETIN

EZ Connector for IRIG-B or DCF77
EZC-IRIG-B / EZC-DCF77

The Cyber Sciences' EZ Connector for IRIG-B (EZC-IRIG-B) or DCF77 (EZC-DCF77) is a wiring adapter for the CyTime™ Sequence of Events Recorder (SER) to facilitate wiring of its precision time-sync input signal. The adapter fits the "Options" port (DB15 connector) of the SER and facilitates wiring of IRIG-B or DCF77 signals via a screw-type terminal, suitable for power equipment wiring. (Model EZC-IRIG-B is shown at left.)

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 unmodulated IRIG-B signal (100 Hz) or DCF77 signal (one pulse per second) when a valid signal is present, providing positive confirmation of correct wiring and polarity.

SAFETY PRECAUTIONS

⚠ DANGER

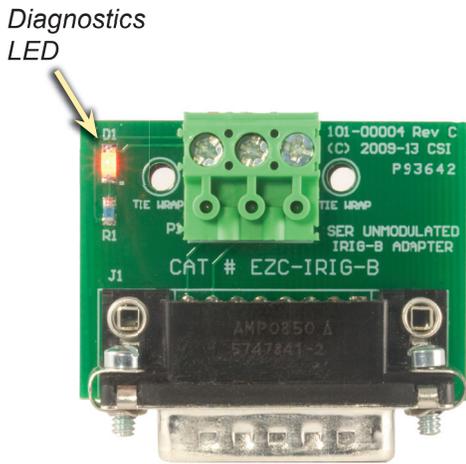**HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH**

- 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.
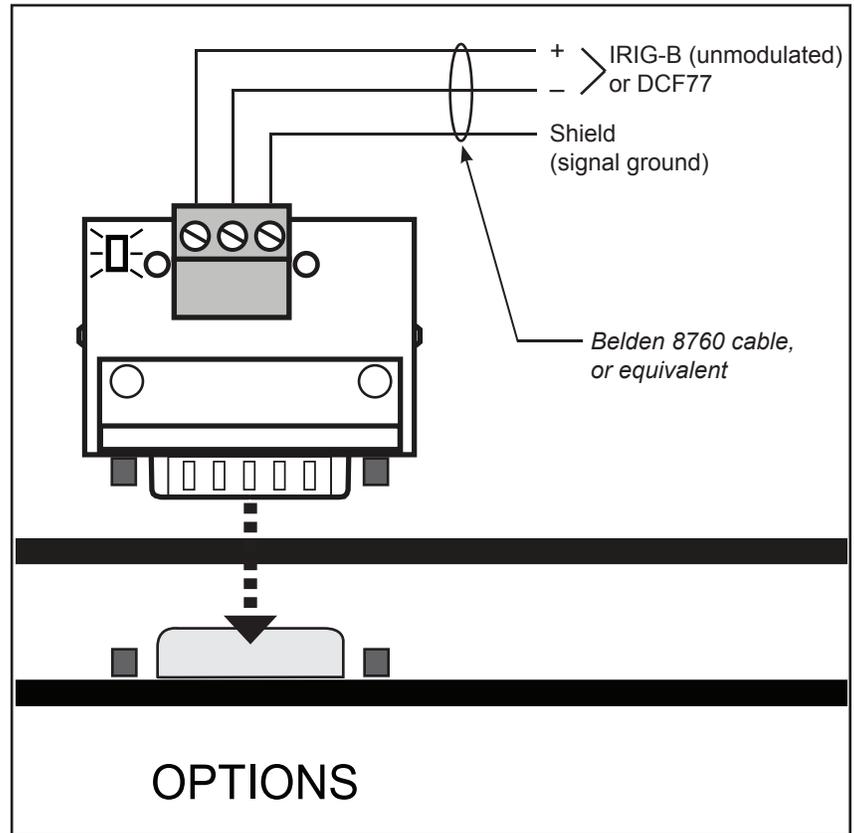

CYBER SCIENCES™

Precision Timing for Reliable Power. *Enabled.*℠

WIRING

Wiring of IRIG-B or DCF77 Signal

Diagnostics LED

EZC connector—flashing LED indicates valid IRIG-B or DCF77 time signal input

The wiring diagram below illustrates how to connect an unmodulated IRIG-B or DCF77 signal to an SER via an EZC connector.

EZC wiring connections (IRIG-B or DCF77) input to CyTime SER

TECHNICAL SPECIFICATIONS

CYBER SCIENCES ™

RoHS   Pb Lead-Free

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Cyber Sciences, Inc. USA

SPECIFICATIONS	
Diagnostics LED	One (1) Red LED: Flashing—Indicates valid IRIG-B or DCF77 signal.
Power Requirements	No separate power supply required. (Power derived from host SER)
Current draw	EZC-IRIG-B: 10 mA at 5 Vdc. EZC-DCF77: 10 mA at 24 Vdc.
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 Options Connector (DB-15)
Dimensions	1.77 in. wide, 1.51 in. high, 0.58 in. deep (45 x 38 x 15 mm)
Weight	Approximately 0.5 oz. (14 g)