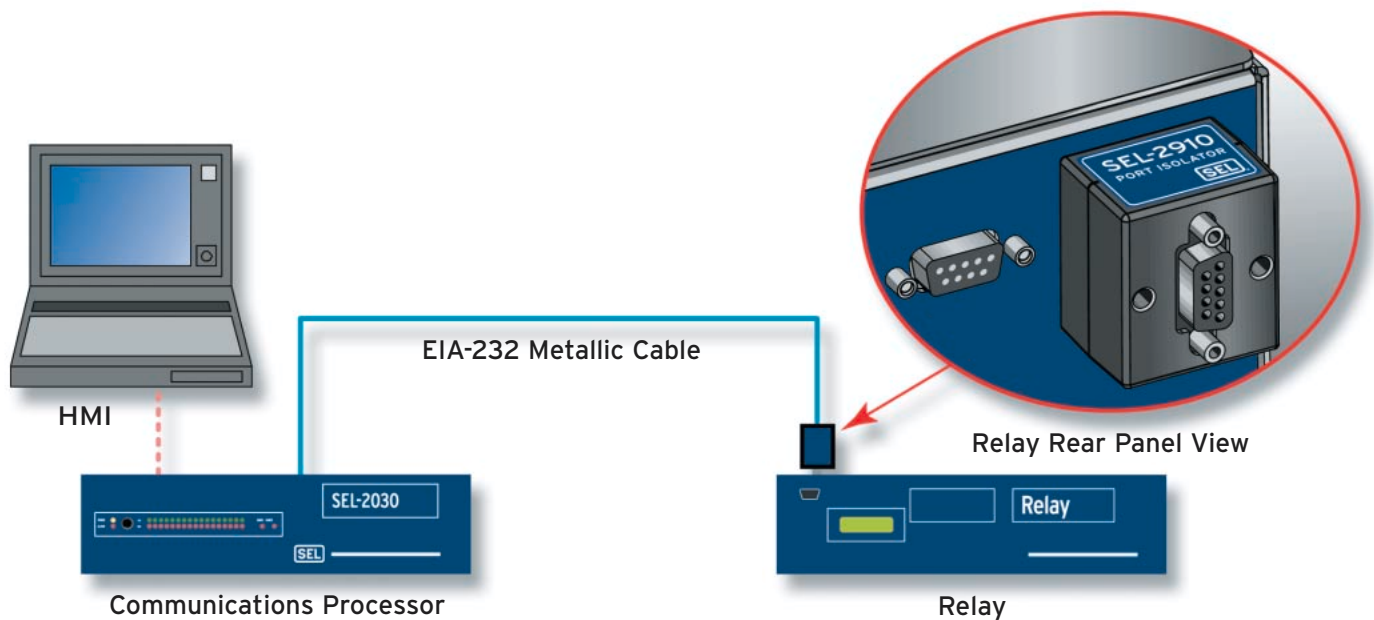




Isolate EIA-232 and IRIG-B Serial Data Links With the SEL-2910 Port Isolator



Apply in existing installations where using fiber optics or modifying cable routing is not feasible.

Key Features

- **Simple Installation**
Powered from the host device EIA-232 transmit-data pin.
- **Improved Safety**
Isolates to 2500 V rms.
- **Compact**
Plugs directly onto DB-9 connector.
- **Utility Quality**
Meets or surpasses applicable IEC and IEEE standards for temperature, humidity, vibration, shock and bump, seismic, electrostatic discharge, and dielectric strength (see back page).
- **Secure and Reliable Data Transfer**
Reduces susceptibility to interference induced by high-current sources.

Making Electric Power Safer, More Reliable, and More Economical

SEL-2910

Port Isolator

Specifications

■ Interface

Conforms to EIA-232 standard

■ Connectors

Male and Female DB-9

■ Data Rate

Up to 40 kbps

■ Isolation

Transmit, Receive, and IRIG-B up to 2500 V rms

■ Power Requirements

None, transmit data line powered (EIA-232 Typical ± 9 Vdc)

Min. ± 5.5 Vdc; Max. ± 12 Vdc

■ Size (H x W x D Installed)

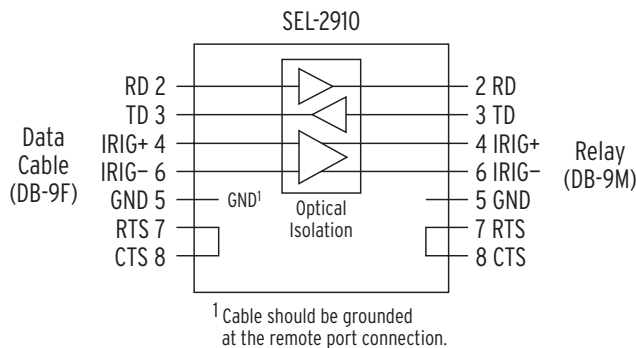
1.5" x 1.32" x 1.16" (3.81 x 3.35 x 2.95 cm)

■ Set Screw Torque

5 to 7 in-lbs

■ Operating Temperature Range

-40° to +85°C (-40° to +185°F)



SEL-2910 Port Isolator block diagram and pin definitions.

Type Tests

Cold

EN 60068-2-1: 1990/1993, Test Ad; 16 hr. at -40°C

Dry Heat

EN 60068-2-2: 1974/1993 Test Bd; 16 hr. at +85°C

Damp Heat, Cyclic

IEC 60068-2-30: 1980, 25°-55°C, 6 cycles, 95% humidity

Vibration

IEC 60255-21-1: 1995, Class 1 (Endurance); Class 2 (Response)

Shock and Bump

IEC 60255-21-2: 1995, Class 1 (Endurance); Class 2 (Response)

Seismic

IEC 60255-21-3: 1995, Class 2 (Quake Response)

Electrostatic Discharge

EN 60255-22-2: 1996, Levels 1, 2, 3, 4

EN 61000-4-2: 1995, Levels 1, 2, 3, 4

Dielectric Strength

IEC 255-5: 1977, IEEE C37.90: 1989

2500 V rms, 1 minute.

Applied between male and female DB-9 ports.

Radiated Radio Frequency

ENV 50140: 1993, 10 V/m

IEC 60255-22-3: 2000,

Exception: 4.3.2.2 freq. sweep w/200 steps per octave

IEEE C37.90.2: 1987,

Exceptions:

5.2.2 frequency sweep w/200 steps per octave,

5.5.3 digital equipment modulation test not performed,

5.5.4 test signal turned off between frequency steps to simulate keying

IEEE C37.90.2: 1995, 35 V/m

Surge Withstand

IEEE C37.90.1: 1989

IEEE PC37.90.1/D6: 2000 (Draft Standard)

3000 V oscillatory, 5000 V transient.

Applied to shell and pins of DB-9F connectors.

Fast Transient

Level 4. Applied to communication cables connected to SEL-2910 (DB-9F).

IEC 255-22-4: 1992, EN 61000-4-4: 1995

Commitment to Quality

Schweitzer Engineering Laboratories, Inc. is committed to quality. Our certification to the ISO 9001 quality standard and our ten-year product warranty are examples of this commitment. We encourage and appreciate your feedback, and we will use this information to continually improve our products and services.



Contact Us

SEL sales representatives are prepared to assist you. Contact your nearest sales representative, application engineer, or customer service representative at (509) 332-1890. Visit our web site at www.selinc.com for more information.

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