SEL-2910 Port Isolator

Features
The SEL-2910 Port Isolator provides 2500 Vrms of isolation on full duplex EIA-232 communications links.

Specifications

Compliance
RoHS compliant

Interface
Conforms to EIA-232
(e.g., serial ports of SEL-200, SEL-300, SEL-400, and SEL-500 series relays)

Connectors
Male and Female DB-9 (see Figure 1)

Data Rate
As fast as 40 kbps

Isolation
Transmit, Receive, and IRIG-B to 2500 Vrms

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

Required EIA-232 Levels
Min. ±5.5 Vdc
Max. ±12 Vdc

Size (H x W x D installed)
3.81 x 3.35 x 2.95 cm (1.5" x 1.32" x 1.16")

Relative Humidity
5 to 95% noncondensing

Set Screw Torque
5 to 7 in-lbs

Operating Temperature Range
−40° to +85°C (−40° to +185°F)

Type Tests

Cold:
EN 60068-2-1:2007, Test Ad; 16 hr. at −40°C

Dry Heat:
EN 60068-2-2:2007, Test Bd; 16 hr. at +85°C

Damp Heat, Cyclic:
IEC 60068-2-30:2005, +25° to +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 61000-4-2:2008, Levels 1, 2, 3, 4,
Performance Classification B
IEEE C37.90.3:2001, Level 3

Insulation Coordination

Dielectric (HiPot):
EN 60255-27:2014
IEEE C37.90-2005
Severity Level:
2500 Vac for 1 minute between male and female DB-9 ports.
2500 Vac for 1 minute between enclosure and DB-9 ports.

Impulse:
EN 60255-27:2014
IEEE C37.90-2005
Severity Level: 1 kV

Radiated
RF Immunity:
EN 60255-26:2013
IEEE 61000-4-3:2010,
Severity Level: 10 V/m

Conducted Immunity:
EN 60255-26:2013
IEC 61000-4-6:2010

Radiated Emissions:
CISPR 11:2009+A1:2010
CISPR 22:2008
ANSI C63.4-2014
Class A

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