

**INTRODUCTION:**

The SerialComm ISO-232-3P9 is a bi-directional port powered 5000V optically isolated RS-232C port isolator in a 9 pin format. It can optically isolate any standard full duplex RS-232C port. The ISO-232-3P9 optically isolates the 3 lines: TX, RX, and GND which effectively protects your RS-232 devices from transient voltage spikes, lightning strikes, ground loops, and noise problems. The unit is powered from the RS-232 data lines. Therefore, no external power or flow control is required. The ISO-232-3P9 has a DB9 female connector on one RS-232 side and a DB9 male connector on the other RS-232 side.

**CERTIFICATIONS:**



**GENERAL FEATURES:**

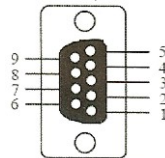
- 5000V optical isolation protects RS-232 devices from electrical surges and lightning strikes
- 5000V optical isolation also eliminates ground loop and noise problems
- Port Powered: no external power is necessary
- Plug-and-Play (Device is hot-pluggable)
- 5 Year Manufacturer's Warranty
- CE, FCC, ISO 9001 and IAF Compliance Certified
- Surface Mount Technology manufactured to ISO 9001 Standards

**PINOUT CONFIGURATION:**

**RS-232 SIDE – DB9 FEMALE**

SIGNAL	TX	RX	GND
PIN #	2	3	5
FUNCTION	TX	RX	GND

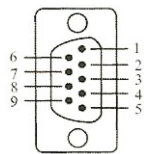
**FEM. DB9**



**RS-232 SIDE – DB9 MALE**

SIGNAL	RX	TX	GND
PIN #	2	3	5
FUNCTION	RX	TX	GND

**MALE DB9**



**SPECIFICATIONS:**

PART NUMBER:	ISO-232-3P9
STANDARDS:	EIA/TIA RS-232C Standard
BAUD RATES:	From 300 Baud To 57,600 Baud
POWER SOURCE:	Port Powered From RS-232 Data Line TX
CURRENT CONSUMPTION:	Less Than 15 mA
CONNECTOR TYPES:	RS-232 Side: DB9 Female and RS-232 Side: DB9 Male
DISTANCE:	16 ft (5m)
OPTICAL ISOLATION	5000V
STATIC PROTECTION:	1500W Static Protection
SURGE PROTECTION:	600W Surge Protection
WEIGHT:	0.8oz (22 grams)
DIMENSIONS:	2.47" X 1.33" X 0.70" (62.8 mm X 33.8 mm X 17.8 mm)
OPERATING TEMP.:	-40° F to 176° F (-40°C to 80° C)
OPERATING HUMIDITY:	5% To 95% - No Condensation

**TROUBLESHOOTING INSTRUCTIONS:**

TEST1: Connect ISO-232-3P9 to PC. If there is continuity in the data stream then it is working. If the ISO-232-3P9 is not being powered properly it will not work at all.

TEST2: You can perform a more detailed voltage test. With multimeter perform the following test. Connect Pin 1 to Pin 5 and connect Pin 2 to Pin 3. When static Pin 2 should be 0V and Pin 3 should be 5.5V. When dynamic Pin 2 should be 0V and Pin 3 should be 3.7V.

**APPLICATIONS:**

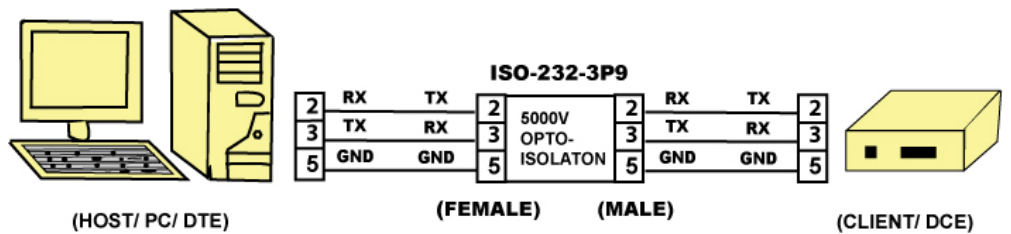


FIGURE 1: 5000V ISOLATION BETWEEN A DTE AND A DCE

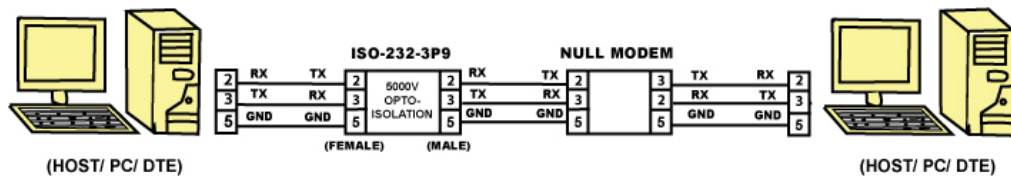


FIGURE 2: 5000V ISOLATION BETWEEN TWO DTES