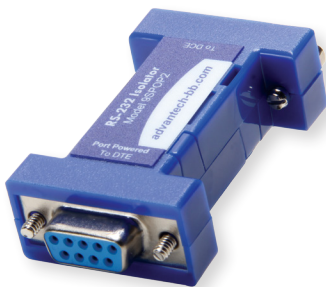


# 2.5 kV RS-232 Optical Isolator

## Model 9SPOP2

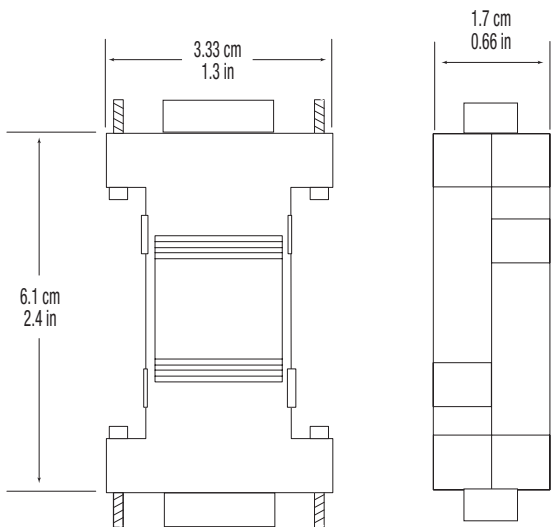


### PRODUCT FEATURES

- 2,500 V, 2-way optical isolation
- RS-232 on DB9 female (DTE) and male (DCE) connectors
- Data rates up to 115.2 kbps
- Port-powered on both sides, no external power supply required

Model 9SPOP2 is a port-powered, two-channel isolator with a 2,500 Volts protection level. It optically isolates both the RS-232 Transmit Data and Receive Data lines and RS-232 equipment from lightning surges, accidental high voltage shorts, and ground loops. RS-232 data signals TD and RD are supported at up to 115.2 kbps.

### MECHANICAL DIAGRAM



### ORDERING INFORMATION

MODEL NUMBER	CHANNELS PROTECTED	DTE CONNECTOR	DCE CONNECTOR	ISOLATION
9SPOP2	2	DB9 Female	DB9 Male	2,500 V

### ACCESSORIES - OPTIONAL

9PAMF6 - DB9 Male to DB9 Female, 1.8 m (6 ft.)

MMNM9 - Null Modem Adapter – DB9 Male / DB9 Male

232HESP - RS-232 Surge Protector

### SPECIFICATIONS

SERIAL TECHNOLOGY	
Data Rate	115.2 kbps
RS-232	
Connector	DB9 female (DTE)
Connector	DB9 male (DCE)
Signals	TD, RD
Transmission Mode	Asynchronous, half or full duplex, point-to-point
POWER	
Source	Port Powered from both sides. DTE side - DTR & RTS lines. DCE side - DCD, DSR & CTS lines.
Weight	36.3 g (0.08 lb)
ISOLATION	
Volts/Duration	2,500 Volts RMS isolation for 1 minute
MECHANICAL	
Dimensions	6.1 x 3.3 x 1.7 cm (2.4 x 1.3 x 0.66 in)
ENVIRONMENTAL	
Operating Temperature	0 to +70 °C
Storage Temperature	-55 to 125 °C
Operating Humidity	0 to 95% Non-condensing
MEANTIME BEFORE FAILURE (MTBF)	
MTBF	674717 hours
MTBF Calc. Method	Parts Count Reliability Protection
APPROVALS / CERTIFICATIONS	
CE, FCC Part 15, CISPR, EN 55032+ AC - Class A Emissions	
2012/19/EU - Waste Electrical and Electronic Equipment (WEEE)	

### Surge Protection Standards

IEC 1000-4-5: 1995 “Surge Immunity Test” and IEEE C62.41-1991 “IEEE Recommended Practice on Surge Voltages in Low-Voltage AC Power Circuits” are the recognized standards for surge protection. B+B SmartWorx’ heavy duty surge protectors have been tested at 6 kV to meet these two specifications.

Learn more about surge suppression & isolation at:  
[www.advantech-bb.com](http://www.advantech-bb.com)

- “Isolation: Your Best Investment for Reliability”
- “Dataline Isolation Theory”
- “Dataline Surge Protection”

All product specifications are subject to change without notice.  
9SPOP2\_3817ds

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