

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

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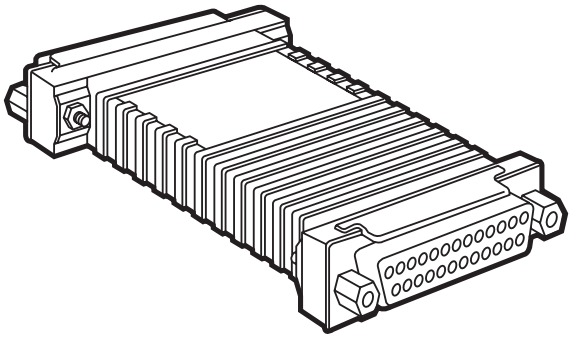
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BLACK BOX®

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HIGH-SPEED OPTO-ISOLATOR AND OPTO-ISOLATOR



Protect today's high-speed equipment and data from ground-loop problems.

Key Features

- ***Fiberoptic circuitry.***
- ***Supports speeds of up to 115.2 kbps—and distances of up to 75 feet (22.9 m)—on both sides.***
- ***Stops ground-potential differences up to 2500 volts.***
- ***Small and lightweight.***

Guard your asynchronous data and equipment from ground loops between buildings.

A ground loop occurs when the ground potential is different on each end of the cable. This difference in potential causes dangerous currents that can fry your equipment.

But an Opto-Isolator stops those currents dead. They simply can't get across the optical barrier.

These Opto-Isolators plug directly into your DTE hardware and provide 2500 VRMS (3000 volts peak) of DTE/DCE isolation.

For equipment that's running at a high rate of speed (up to 115.2 kbps), use the High-Speed Opto-Isolator (SP340A-R2). If your equipment's running at a lower speed (up to 19.2 kbps), use the Opto-Isolator (SP400A-R3).

Both models isolate four RS-232 signals. In addition to two data lines (TD and RD), the Opto-Isolator passes one user-configurable control signal in each direction.

To install it, just plug the Isolator in directly between your DTE and DCE equipment—there's no external power required. (If the connected interfaces supply insufficient power, however, you can use a 9-VDC power supply.)

And because it's small (less than 1 inch high) and lightweight (less than a pound), the Opto-Isolator stays out of your way.

Specifications

Protocol — Asynchronous, full or half-duplex

Isolation — 2500 VRMS

Speed —
SP340A-R2: Up to 115.2 kbps;
SP400A-R3: Up to 19.2 kbps

Compliance — 89/336/EEC, FCC Part 15, Class A

Connectors —
Opto-Isolators: (2) DB25 female;
PS576: (2) DB25–1 male, 1 female

Interface — EIA RS-232-E

Power — Interface-powered;
Optional power supplied to pin 9 (either side) at +9 VDC±5% @ 100 mA (≈945 mW)

Size — Opto-Isolators:
0.8"H x 2.1"W x 3.8"D
(2 x 5.3 x 9.7 cm);
PS576: 2.7"H x 1.2"W x 0.7"D
(6.9 x 3 x 1.8 cm)

Weight — 0.8 lb. (0.4 kg)

Ordering Information

ITEM	CODE
High-Speed Opto-Isolator	SP340A-R2
For optical isolation at slower data rates, consider:	
Opto-Isolator	SP400A-R3
Optional power supply:	
9-VDC Power Supply	PS576

Black Box offers the best warranty program in the industry—Fido Protection®. For more information, request **FaxBack 22512**.

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

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We're here to make your life easier. How can we help you today?

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