

RS-232↔Current Loop DIN Rail Converter with Opto-Isolation

Put your industrial communications  
on the right track with this  
convenient DIN rail converter.



## FEATURES

- » Has one 20-mA transmit loop and one 20-mA receive loop.
- » Both signals feature 1000-VDC opto-isolation to protect against surges and ground loops.
- » Both loops can be set as active or passive. When set to active, an isolated 20-mA current is supplied to each loop.
- » Top speed of 19.2 kbps.

## Technically Speaking

### DIN rail usage.

DIN rail is an industry-standard metal rail, usually installed inside an electrical enclosure, which serves as a mount for small electrical devices specially designed for use with DIN rails. These devices snap right onto the rails, sometimes requiring a set screw, and are then wired together.

Many different devices are available for mounting on DIN rails: terminal blocks, interface converters, media converter switches, repeaters, surge protectors, PLCs, fuses, or power supplies, just to name a few.

DIN rails are a space-saving way to accommodate components. And because DIN rail devices are so easy to install, replace, maintain, and inspect, this is an exceptionally convenient system that has become very popular in recent years.

A standard DIN rail is 35 millimeters wide with raised-lip edges, its dimensions outlined by the Deutsche Institut für Normung, a German standardization body. Rails are generally available in aluminum or steel and may be cut for installation. Depending on the requirements of the mounted components, the rail may need to be grounded.

## TECH SPECS

**Distance (Maximum)** — 2000 ft. (609.6 m)

**Isolation** — 1000 VDC for 1 second

**Operation** — RS-232: Half- or full-duplex;

Current Loop: 20 mA, active or passive

**Speed** — Up to 19.2 kbps

**CE Approval** — Yes

**Connectors** — (2) 6-position terminal blocks

**Indicators** — (2) LEDs: Data flow direction

**Operating Environment** — Temperature: 32 to 176°F (0 to 80°C);

Humidity: Up to 95% noncondensing

**Power** — 10–30 VDC, 100 mA

**Size** — 0.9"H x 2.9"W x 3.9"D (2.3 x 7.4 x 9.9 cm)

### Item

### Code

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**ICD101A**

### You may also need...

DIN Rail, 1-m (3.2-ft.)

**DR100**

DB25 to Terminal Block Adapter

**IC980**

### To power six converters, order...

DIN Rail 12-VDC Power Supply

**PSD100**

## Why Buy From Black Box? Exceptional Value. Exceptional Tech Support. Period.

### Recognize any of these situations?

- You wait more than 30 minutes to get through to a vendor's tech support.
- The so-called "tech" can't help you or gives you the wrong answer.
- You don't have a purchase order number and the tech refuses to help you.
- It's 9 p.m. and you need help, but your vendor's tech support line is closed.

According to a survey by *Data Communications* magazine, 90% of network managers surveyed say that getting the technical support they need is extremely important when choosing a vendor. But even though network managers pay anywhere from 10 to 20% of their overall purchase price for a basic service and support contract, the technical support and service they receive falls far short of their expectations—and certainly isn't worth what they paid.

At Black Box, we guarantee the best value and the best support. You can even consult our Technical Support Experts before you buy if you need help selecting just the right component for your application.

Don't waste time and money—call Black Box today.