

# Isolator RS-232 D-Sub 9 female to RS-232 D-Sub 9 male TXD, RXD, DTR, DSR, GND galvanic isolation 2.5 kV

## Description

This RS-232 isolator by Delock protects all connected devices such as computers, machines, controllers, measuring devices, etc. against electromagnetic and electrostatic discharges as well as surge. Due to the complete galvanic isolation of the connected devices, a continuous data transmission is guaranteed even in the case of earth or ground loops. The isolator can be used as a coupling directly between two DB9 connections without an additional power supply.



**Item no. 64315**

EAN: 4043619643158

Country of origin: China

Package: Box

## Technical details

- Connectors:
  - 1 x serial RS-232 DB9 female with screws
  - 1 x serial RS-232 DB9 male with nuts
- Data transfer: asynchronous, full duplex
- Data transfer rate from 300 bps to 19200 bps
- Isolation Voltage: 2500 VRMS peak pulse or 500 VDC
- $\pm 3$  kV ESD protection on all signal pins
- Data lines: TXD, RXD, DTR, DSR, GND
- Housing material: plastic
- Colour: black
- Operating temperature:  $-40^{\circ}\text{C} \sim 80^{\circ}\text{C}$
- Relative humidity: 5 - 95 % (non condensing)
- Dimensions (LxWxH): ca. 63 x 33 x 17 mm
- Bus Power from RS-232: TXD, RTS or DTR
- Plug & Play
- No external power supply needed

## System requirements

- 1 x serial RS-232 DB9 female with screws
- 1 x serial RS-232 DB9 male with nuts

## Package content

- Isolator RS-232 to RS-232
- Terminal block

## Images

| 64315 | DB9 Buchse/Female         | DB9 Stecker/Male          |
|-------|---------------------------|---------------------------|
| PIN   | RS-232                    | RS-232                    |
| 1     | NC                        | NC                        |
| 2     | TXD (Transmit Data)       | RXD (Receive Data)        |
| 3     | RXD (Receive Data)        | TXD (Transmit Data)       |
| 4     | DSR (Data Set Ready)      | DTR (Data Terminal Ready) |
| 5     | Signal GND (SG)           | Signal GND (SD)           |
| 6     | DTR (Data Terminal Ready) | DSR (Data Set Ready)      |
| 7     | NC                        | NC                        |
| 8     | NC                        | NC                        |
| 9     | NC                        | NC                        |



## General

|                             |                                                  |
|-----------------------------|--------------------------------------------------|
| Specification:              | RS-232 (EIA / TIA)                               |
| Supported operating system: | OS independent, no driver installation necessary |
| Protection:                 | ESD (Electrostatic Discharge)                    |

## Interface

|              |                              |
|--------------|------------------------------|
| Connector 1: | 1 x Serial RS-232 DB9 male   |
| Connector 2: | 1 x serial RS-232 DB9 female |

## Technical characteristics

|                        |                                  |
|------------------------|----------------------------------|
| Data transfer rate:    | 300 bps up to 9200 bps           |
| Operating temperature: | -20 °C ~ 70 °C                   |
| Humidity:              | 5 ~ 95 %                         |
| Signal transmission:   | TXD, RXD, DTR, DSR, GND          |
| Data transmission:     | asynchronous<br>full duplex      |
| Voltage supply:        | RS-232 Bus Power TXD, RTS or DTR |

## Physical characteristics

|                   |                               |
|-------------------|-------------------------------|
| Housing material: | Plastic                       |
| Screw type:       | #4-40 UNC                     |
| Length:           | 63 mm                         |
| Width:            | 33 mm                         |
| Height:           | 17 mm                         |
| Colour:           | black                         |
| Insulator:        | 2.5 kV VRMS optical isolation |

## Manufacturer information

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|             |                |
|-------------|----------------|
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