



- ❖ Supplied over USB-B
- ❖ Galvanic Separation
- ❖ Operating Range -40°C to $+75^{\circ}\text{C}$
- ❖ Operating Range of Components -40°C to $+85^{\circ}\text{C}$

| PRODUCT NAME | CODE | NOTE |
|--------------|-----------|----------|
| GDS-USB-AB | 2-290-260 | USB A, B |

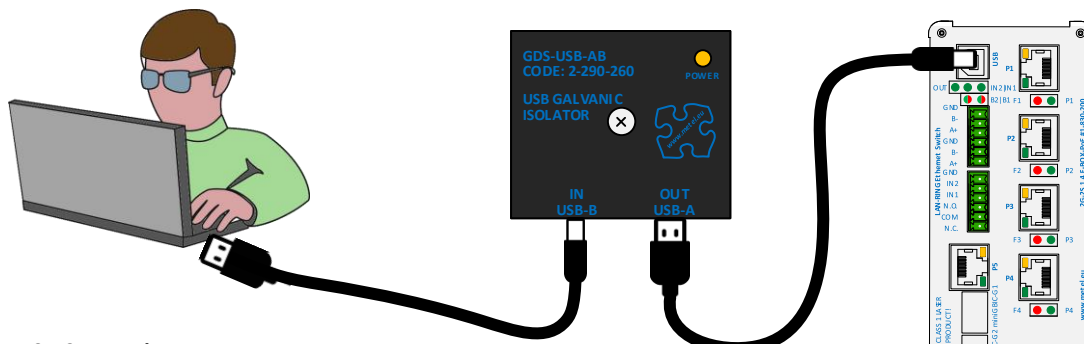
Function Description

This separator is the ideal solution for interrupting ground loops and protecting USB ports from overvoltages and voltage spikes in applications that require high-speed USB. The galvanic insulation barrier can withstand a potential difference of up to 2,500 volts.

Technical Parameters

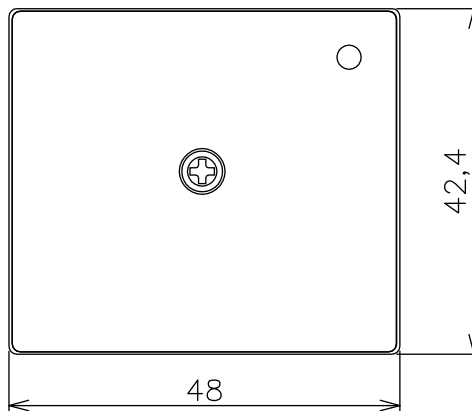
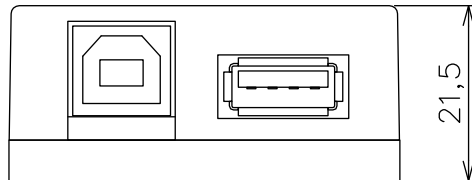
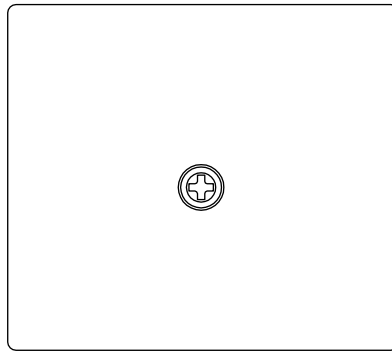
| Parameter | Value | Unit | Note |
|---|-------------------------|----------------------|---|
| Ports | USB-B / USB-A | Data + Supply / Data | 50 mA |
| Data Speed | USB2.0 - Full-Speed: 12 | Mbps | |
| Overvoltage Protection | 500 | W | 8/20 μs |
| | 40 | A | IEC 61000-4-4 |
| Galvanic Isolation | 2,5 | kV | |
| Environment | Operational Range | $-40\dots+75$ | $^{\circ}\text{C}$ Temperature of Environment |
| | Storage Range | $-40\dots+75$ | $^{\circ}\text{C}$ |
| | Humidity | Max. 95 | % Non-condensing |
| Mechanics | Dimensions | See Drawing | mm |
| | Weight | 40 | g |
| | Cover Material | Plastic | |
| | Certification | CE | |
| The producer retains the right to change any technical parameters without previous written or published notification. | | | |

Block Diagram of Connections



1. USB Connection

First connect the computer to the USB IN port with the A-B USB cable. The power supply is indicated by the yellow POWER LED. Then connect the switch to the USB OUT port with the USB A-B cable.

Dimensions of GDS-USB-AB

REV: 201904 – Default
201912 – Remove DIN holder