KNX Tiny Serial 810 "USB"

Serial Interface to KNX bus

Data sheet

Application area

The KNX Tiny Serial Interface 810 offers a simple connection to the KNX Bus Twisted Pair including galvanic isolation. The connection is via USB (virtual COM port).

Figure 1: Photo of device

The communication is based on a modified TP-UART Protocol without real-time requirements to the host. The Tiny Serial Interface is ideally suited for connecting KNX Devices running various operating systems.

A Cross Platform SDK for Windows and Linux is also available to integrate Tiny Serial into your application.
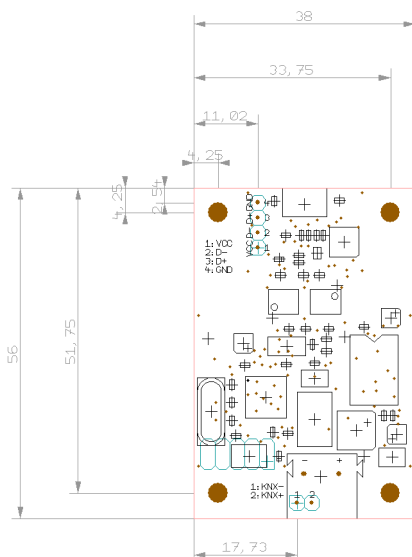

Figure 2: Dimensions

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KNX

Technical data

Electrical safety

- Safety extra low voltage SELV DC 24 V

Environmental requirements

- Ambient temp. operating: - 5 ... + 45 °C
- Ambient temp. Non-op.: - 25 ... + 70 °C
- Rel. humidity (non-condensing): 5 % … 93 %

Physical specifications

- Dimensions (l x b): 56 x 38 mm
- Height: 9,6 mm (excl. connectors)
- Height: 12,3 mm (incl. connectors)
- PCB 1,5 mm
- Weight: approx. 12 g

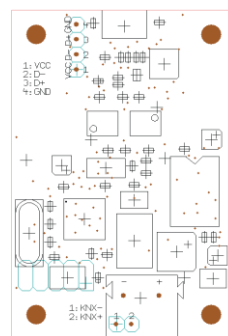### Operating controls

- Programming key for KNX

Indicators

- Programming LED (red)

Power supply

- External supply 3,3-5V DC
- Bus current consumption 6 mA

Connectors

USB

KNX

- UART:
  1: VCC
  2: D -
  3: D +
  4: GND
- KNX connector:
  1: KNX -
  2: KNX +