



DF1SR <http://www.kutz-b.de/df1sr/df1sre/index.html>

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AUTO-TRACKING HARDWARE

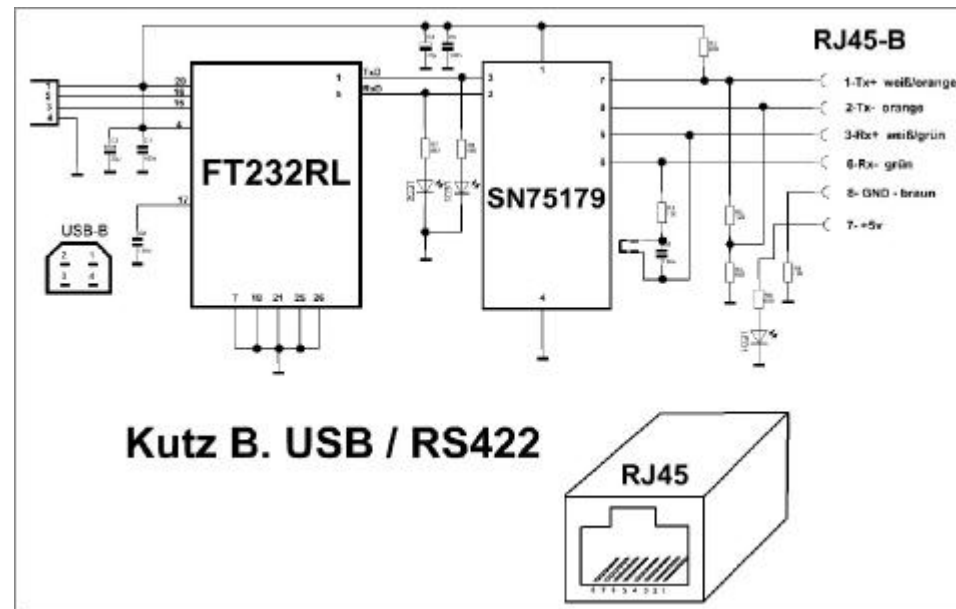
This converter provides data transmission between the PC and the antenna-driver

USB/RS422

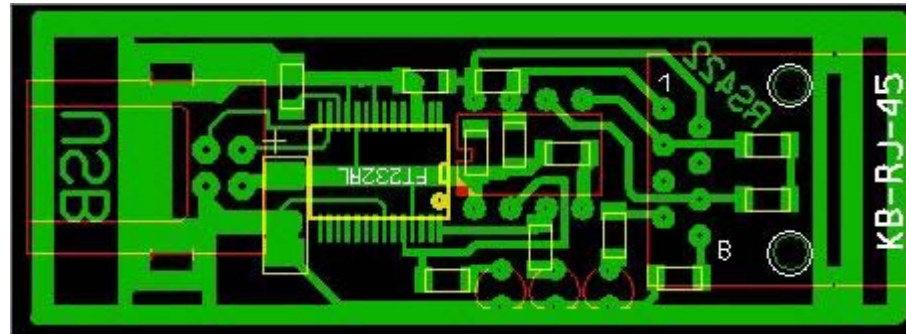
Converter USB to RS422

The SN75179B is a differential driver and receiver pair designed for balanced transmission-line applications

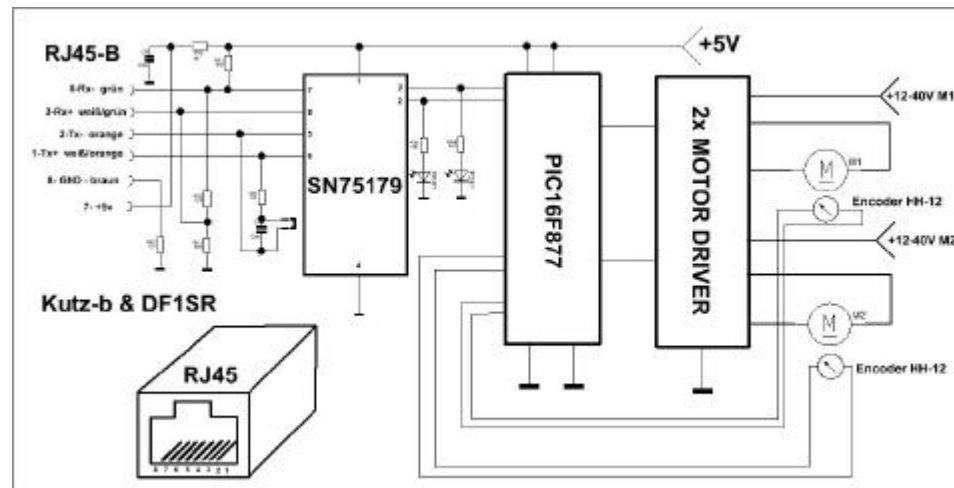
It is designed to improve the communications over long bus lines.



LAYOUT USB TO RS422



ANTENNA DRIVER







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AUTO-TRACKING SOFTWARE



Automatic tracking with DDE dialog

Tracking Software is compatible with the EME SYSTEM V7.0 By Jean-Jacques F1EHN

The program is a DDE client





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[LC-Meter](#)

[EME-Tracking](#)

ENCODER HH-12

HH-12 APPLICATION NOTE



Rotary position transducers

size of a 'standard' potentiometer.

Features:

Low cost

Miniature size

360° contactless rotational absolute position encoding

12 bit - 0.088° absolute resolution

Synchronous serial interface

Operating temperature range : -40°C to +125°C



Operating Conditions:

Supply voltage $V_{DD} = 4,5 < V_{DD} < 5,5 \text{ V}$

Supply current $< 20 \text{ mA}$

DC Characteristic for Digital Inputs and Outputs:

CMOS Schmidt-Trigger Inputs CLK,CS:

High level input voltage Min = $0,7 * VDD$

Low level input voltage Max = $0,3 * VDD$

Schmitt –Trigger hysteresis Min = 1V

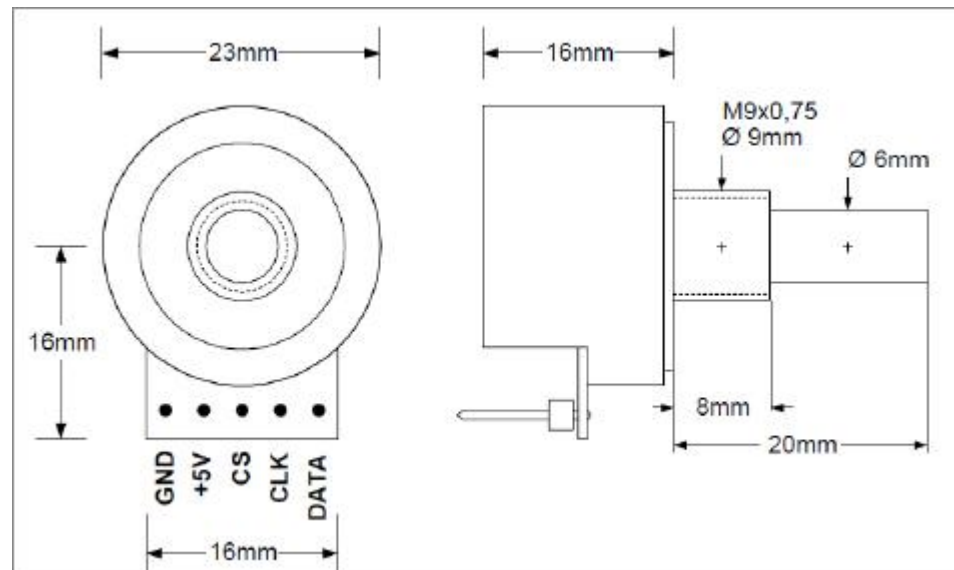
Tri State Output DATA:

High level output voltage Min = $VDD - 0,5 V$

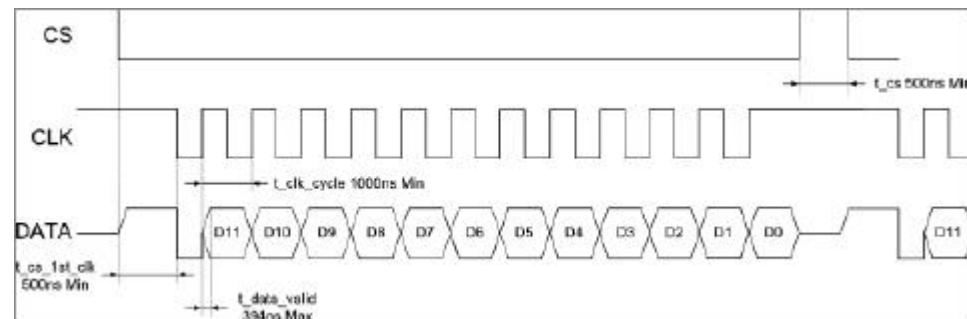
Low level output voltage Max = $0,4 V$

Output current IO Max = 4mA

MECHANICAL DRAWINGS



SYNCHRONOUS SERIAL INTERFACE (SSI), TIMING DIAGRAM



t_cs_1st_clk : Time between falling edge of CSn and first falling edge of CLK = 500ns Min

t_data_valid : Time between rising edge of CLK and DATA valid = 394ns Max

t_cs : Pulse width of CS to initiate read-out of next angular position = 500ns Min

t_clk_cycle : Cycle Time of CLK to read out serial DATA = 1000ns Min ($0 < f_{CLK} < 1\text{MHz}$)