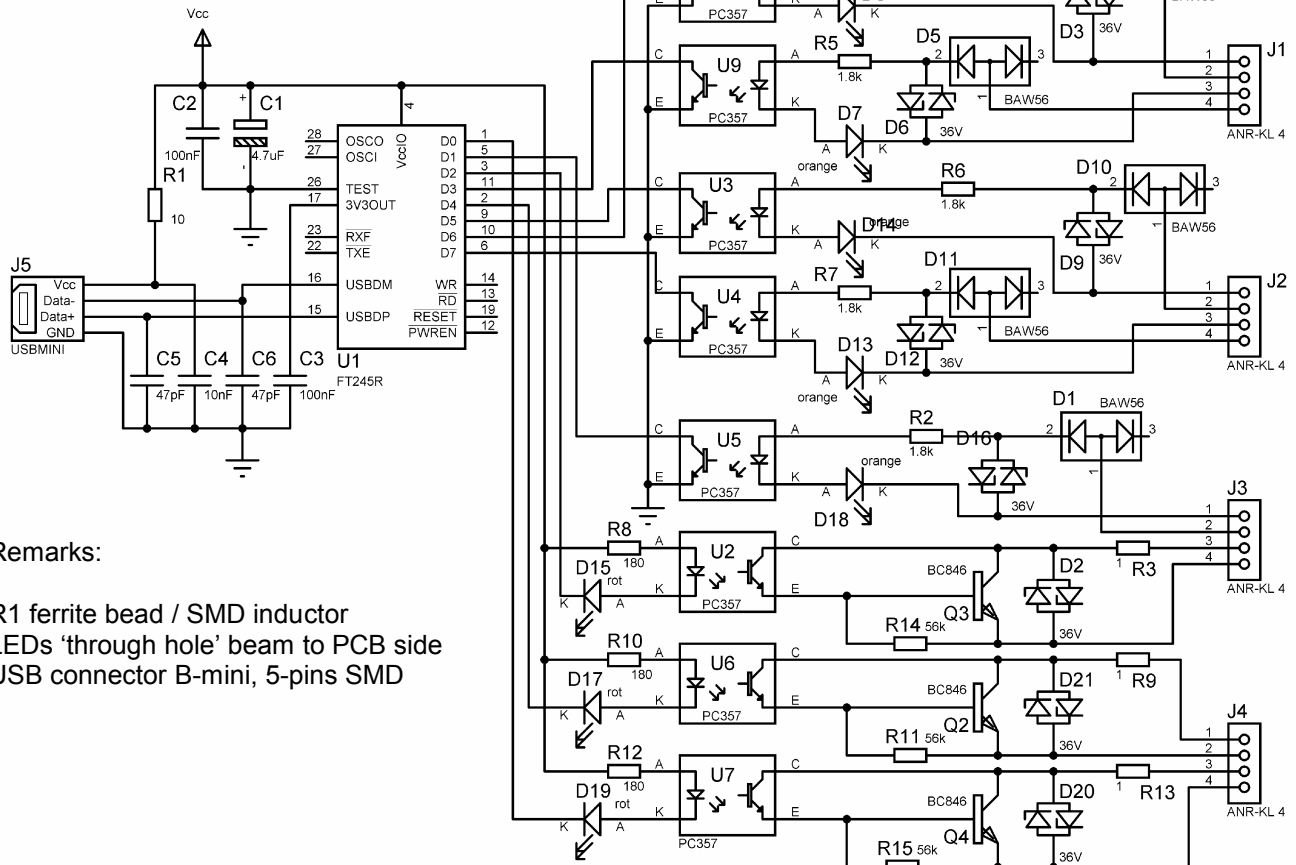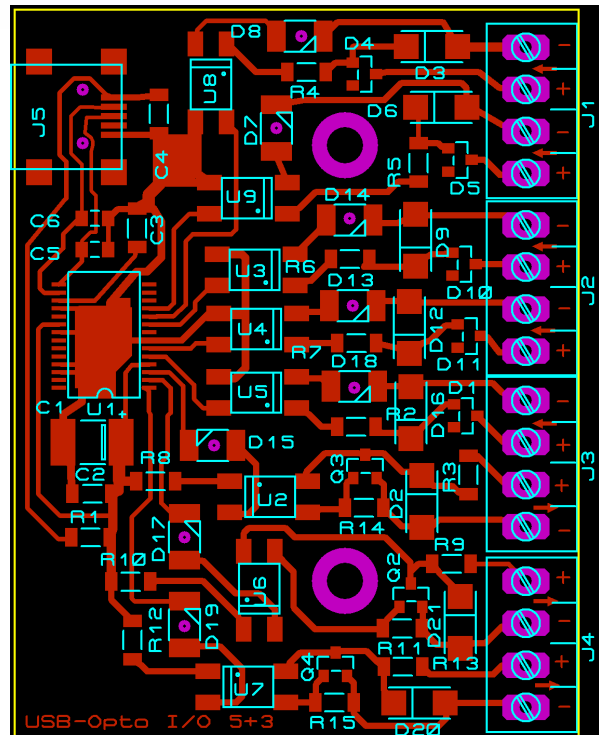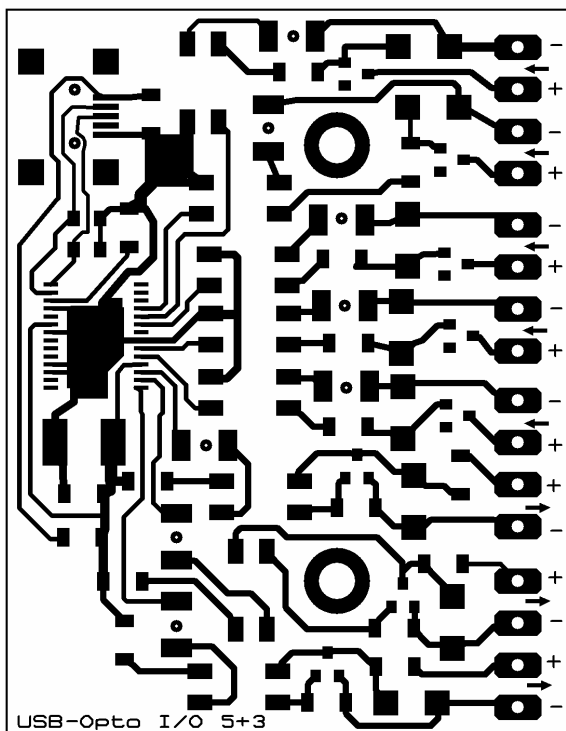# USB-Opto I/O 5+3

The board is a simple opto isolated USB interface with 3 outputs and 5 inputs. Build from the FTDI FT245R chip it is bus powered. The single sided PCB is mounted on a plastic Hut-Rail clamp. It is used for interfacing between PC and I/O-boards of older PLCs. LEDs are showing the state of inputs and outputs.
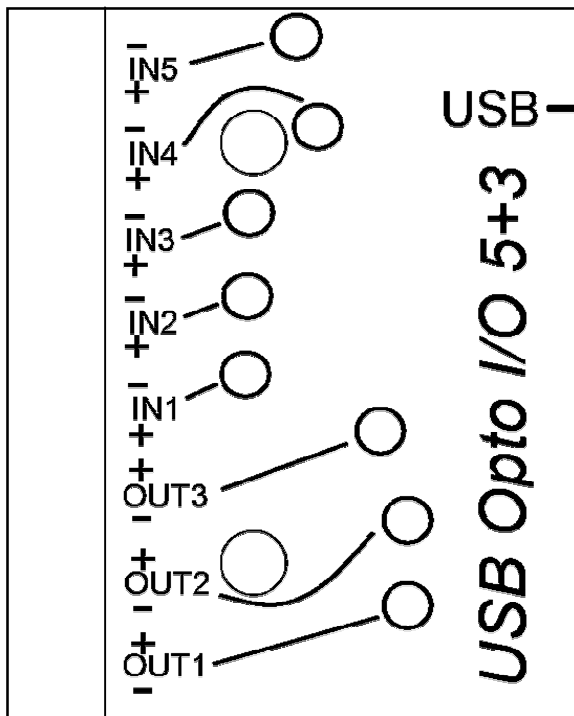
Board size: 60 * 46 mm
Input voltage: 12..30 V
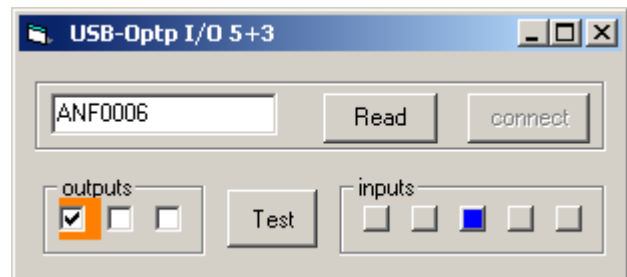Input current: 4..14 mA
Output current   200 mA

Remarks:

R1 ferrite bead / SMD inductor
LEDs 'through hole' beam to PCB side
USB connector B-mini, 5-pins SMD

USB-Opto I/O 5+3

Sticker (transparent) for PCB upper side

Visual Basic Vers. 6 class-module

The module depends on the FTDI sample code. It uses the APIGID32.DLL from Desaware Inc. (www.desaware.com). Description of properties and methods as comments in the source code.

The constant DEVICE_IDENT in the class module has to be identical to the product descrition string programmed with the MProg software. (from FTDI www.ftdichip.com)

Sample program USB SPS.EXE for testing