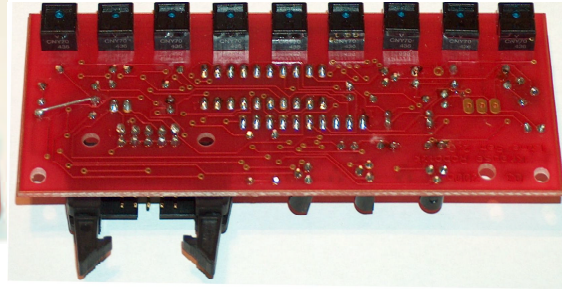
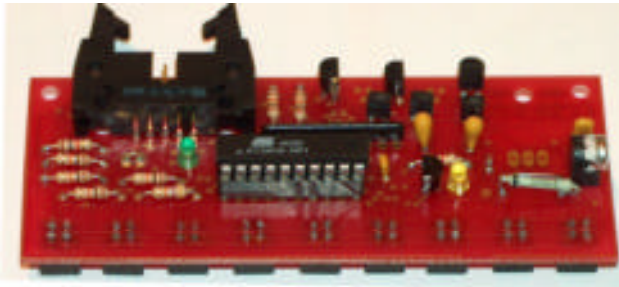


## New development !!!!

# LINE SENSOR



The line sensor is a complete electronic group for detecting contrast differences on undergrounds. Particularly well the electronic group is suitable for the recognition of lines which can be pursued. It recognizes lines from 12 to 80 mm. 9 infrared reflex couplers are arranged in a row and supply depending upon reflection degree a similar signal to a micro controller. This evaluates the measured values and sends it on requirement over the I<sup>2</sup>C-bus to the master.

The reflex couplers produce their own infra-red light by means of an infrared light emitting diode. This diode is controlled by the micro controller in case of measurement. So a minimization of the effective current consumption results. With the help of a potentiometer the brightness of the diodes can be adapted on the respective application optimally.

The infra-red -receiver supplies a similar signal between 0 V and 5 V, depending upon received brightness, to the Microcontroller It concerns a ATMEL ATtiny26 clocked with 16 MHz.

Arise a set of functionalities:

- I<sup>2</sup>C address 4
- expenditure of each individual measured value
- automatic calibration at line and underground
- automatic recognition whether line more brightly or more darkly than underground
- expenditure of the line position
- recognition of the line width

....

**Ask us for more information!**