



Software QuickTeach





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Program Start



Fig. 1 shows the window after the program call. By pushing "Start Program" the program starts.

Hint:

The program detects sensors connected to the serial (COM1 to COM9) and the USB port of the PC. A Baud Rate of **28800** is required for detecting sensors at the serial port (default)! The interfaces will be scanned in the following sequence:

- USB (if multiple sensors are detected at the USB port, the first is choosen)
- COM1
- COM2
- :
- COM9

The first sensor that is detected will be used.

If no sensor is found at the ports the window from Fig. 2 appears **Fehler! Verweisquelle konnte nicht gefunden werden.**



Fig. 2 Window if no sensor is detected

Program functions



Fig. 3 shows the program window.

| Pos. | Program item | Function description |
|------|---------------------------------------|---|
| 1 | Signal Drive | Pressing this button, an automatic signal drive of the sensor to 70% is performed. Hint: The Function is only available for sensors with variable gain and intensity adjustment! |
| 2 | Encoding J Direct Binary | By this switch the encoding of the sensor outputs is determined. Direct: corresponds to one color for each output (1-HOT Encoding) Binary: the output number is encoded binary, by which e.g. for 8 outputs up to 255 colors can be represented |
| 3 | Processing ✓ Classify Check | By this switch the processing modes Classify (most matching color) Check (GO/NOGO, Tolerance adjustment required) can be adjusted. |
| 4 | Scan Speed V Low Medium High | By this switch the scan frequency of the sensor is determined. • Low (500Hz) • Medium (2kHz) • High (5kHz) Hint: The effective response speed of the sensor depends also on the adjusted averaging! |
| 5 | Color-No. | By this selector the current color memory cell is chosen. The memory cells 0255 are available. Hint: While occupying memory cells try to avoid gaps. |

| 6 | Output 2 | By this selector the desired output channel is assigned to the current color index. Hint: It is possible to assign multiple colors (max. 255) to one output. |
|----|--|--|
| 7 | Tolerance DE 10, 15 55, 20 0, 25 | By this rotary knob the tolerance for the color to be taught is adjusted. |
| 8 | Teach | By switching this button, the current color value and the adjusted parameters (Tolerance, Output channel) are stored assigned to the selected color memory cell. |
| 9 | Delete | By switching this button, the color values and the assigned parameters are deleted from the selected memory cell. Hint: The color indices move up if intermediate colors are deleted! |
| 10 | Store | By switching this button, all parameters are stored in the flash memory of the sensor (to keep the values in case of power failure). |
| 11 | Signal Drive Signal Drive Signal Drive | This display shows the drive of the sensor signal. The signal drive is divided into the following ranges: green representation (recommended range 15-95%) yellow representation (weak drive >15%) red representation (over- or under drive, resp.) |
| 12 | OUT 0 OUT 1 OUT 2 OUT 2 OUT 3 OUT 4 OUT 5 OUT 6 OUT 6 OUT 7 | This display shows the state of the outputs of the sensor. |
| 13 | To file Save | By the buttons in this field the adjusted parameters can be saved into a file or loaded from a file. |

Operating steps

- 1. Pos. 1: Adjust sensor signal drive (if several color use the brightest one!)
- 2. Optional: Pos. 2, 3and 4: Adjust output encoding (depending on number of colors), processing method or scan speed.
- 3. Pos. 5: Select color index (memory cell)
- 4. Pos. 6: Assign desired output
- 5. Only processing mode "Check": Pos. 7: Adjust tolerance
- 6. Pos. 8: Adopt colors and parameters
- 7. Optional: For further colors repeat steps 3 to 5
- 8. Optional: Pos. 9: Delete current color
- 9. Pos. 10: Store to Flash memory of sensor

Date of issue 08/29/2008

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XXXXXX 08/2008