



colorCONTROL LT

Brief Instruction

Parameterization Program

QuickTeach

Program Start

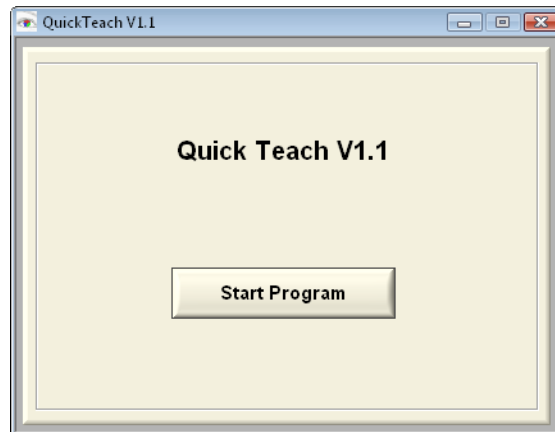


Fig. 1 Start window

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 chosen)
- 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.

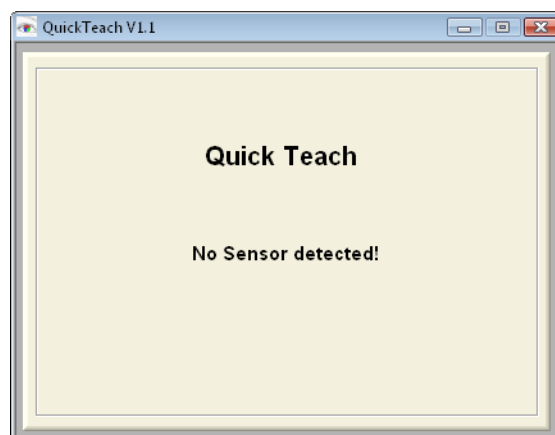


Fig. 2 Window if no sensor is detected

Program functions

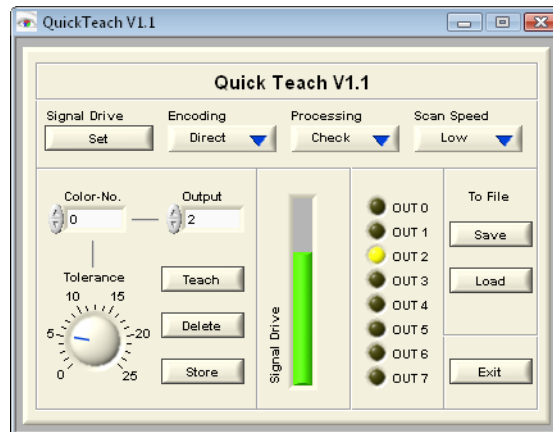
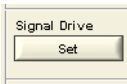
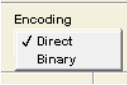
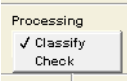


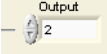




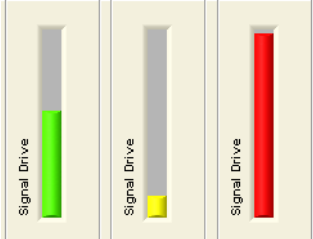
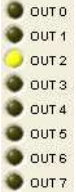
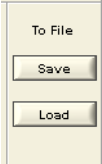


Fig. 3 Program window

Fig. 3 shows the program window.

Pos.	Program item	Function description
1		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		By this switch the encoding of the sensor outputs is determined. <ul style="list-style-type: none"> • 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		By this switch the processing modes <ul style="list-style-type: none"> • Classify (most matching color) • Check (GO/NOGO, Tolerance adjustment required) can be adjusted.
4		By this switch the scan frequency of the sensor is determined. <ul style="list-style-type: none"> • Low (500 Hz) • Medium (2 kHz) • High (5 kHz) Hint: The effective response speed of the sensor depends also on the adjusted averaging!
5		By this selector the current color memory cell is chosen. The memory cells 0...255 are available. Hint: While occupying memory cells try to avoid gaps.

6		<p>By this selector the desired output channel is assigned to the current color index.</p> <p>Hint: It is possible to assign multiple colors (max. 255) to one output.</p>
7		<p>By this rotary knob the tolerance for the color to be taught is adjusted.</p>
8		<p>By switching this button, the current color value and the adjusted parameters (Tolerance, Output channel) are stored assigned to the selected color memory cell.</p>
9		<p>By switching this button, the color values and the assigned parameters are deleted from the selected memory cell.</p> <p>Hint: The color indices move up if intermediate colors are deleted!</p>
10		<p>By switching this button, all parameters are stored in the flash memory of the sensor (to keep the values in case of power failure).</p>
11		<p>This display shows the drive of the sensor signal. The signal drive is divided into the following ranges:</p> <ul style="list-style-type: none"> • green representation (recommended range 15-95 %) • yellow representation (weak drive > 15 %) • red representation (over- or under drive, resp.)
12		<p>This display shows the state of the outputs of the sensor.</p>
13		<p>By the buttons in this field the adjusted parameters can be saved into a file or loaded from a file.</p>

Operating steps

1. Pos. 1: Adjust sensor signal drive (if several color use the brightest one!)
2. *Optional: Pos. 2, 3 and 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



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