

CR-TBox

Remote control and visualization

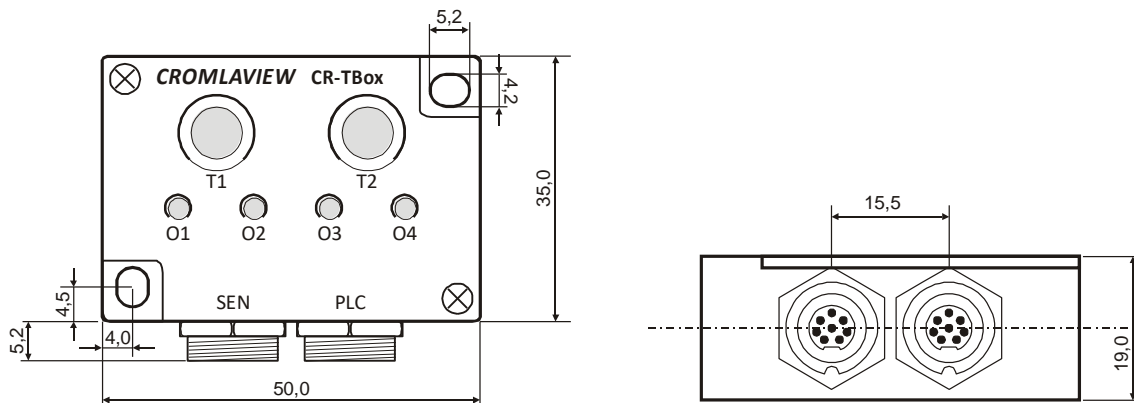
The CROMLAVIEW® color sensors CR100, CR200 and CR210 have special modes, in which they can be addressed via trigger inputs. They are usually controlled by a SPS. Though for particular cases, for example at manual test stations, these functions can also be controlled manually, by a control unit that is separated from the device. On trigger T1 the output is updated, when the mode "triggered externally" is set on the sensor. Furthermore, on T2 a teaching process is triggered, when the mode "External Teach In" is set. This can be useful, when a reference color is to be taught in for the following objects that need to be tested. The advantage of using this unit instead of the buttons on the sensor is the fact that no other parameters can be changed.



For the visualization of the detected colors there are 4 LEDs for the display of four colors, respectively for up to 15 colors with binary encoding.

Key Features

- 2 buttons for the trigger inputs of the CROMLAVIEW® sensors CR100, CR200 und CR210
- For the visualization of the switching states of the output lines
- For teaching in or overwriting color values without accidentally changing other parameters



Technical Data

Interfaces	2 x 8-pin, M9
Displays	6 LEDs for switching outputs and button status
Buttons	2 Buttons
Protection standard	IP 54
Power supply	18 ... 28 VDC, max 50 mA
Case temperature during operation	-10 °C ... 55 °C
Case material	Aluminium, anodized
Case size	50 mm × 35 mm × 19 mm
Weight	Approx. 70 g

Signal description sensor connectors

PIN	Name	Description
1 (white)	OUT1	Sensor output 1
2 (brown)	OUT2	Sensor output 2
3 (green)	TRG1	Input for external triggered Teach-In in mode „Ext. Teach“
4 (yellow)	TRG0	Input for updating the sensor outputs in mode „Extern getrig.“ Input for trigger controlled color sequence in mode „Getrig. Sequ.“
5 (grey)	OUT3	Sensor output 3
6 (pink)	OUT4	Sensor output 4
7 (blue)	GND	Ground
8 (red)	+U _B	Power supply
Shield	SH	Device shield (earth)

Electrical specification sensor connector

PIN	Specification
1 (OUT1)	Push-Pull LOW: 0 V; High: +U _B -1 V; max. 100 mA
2 (OUT2)	Push-Pull LOW: 0 V; High: +U _B -1 V; max. 100 mA
3 (TRG1)	LOW: 0 ... 3 V; High: 18 ... 28 V
4 (TRG0)	LOW: 0 ... 3 V; High: 18 ... 28 V
5 (OUT4)	Push-Pull LOW: 0 V; High: +U _B -1 V; max. 100 mA
6 (OUT3)	Push-Pull LOW: 0 V; High: +U _B -1 V; max. 100 mA
7 (GND)	0 V
8 (+U _B)	18 ... 28 VDC

Important note:

Make sure that the respective shield wires of the used sensor cables are properly connected to earth!

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