



SPECIFICATIONS

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|----------------------------------|---------------------------------------|
| • Dimensions: | 90 x 65 x 35 mm. |
| • Supply Voltage: | 12 VDC to 24 VDC |
| • Scanning distance : | 17 ± 6 mm |
| • Light Source : | Red, Green or Blue |
| • Switching Output: | Low = 0 V / High = Supply - < 1.56 V. |
| • Switching Frequency (Typical): | 1000 /min |
| • Retention : | Nonvolatile memory |

WORKING

Steps to teach the color mark sensor for mark and background color:

1. First set the mark in front of the color mark sensor at distance of 10 to 15 mm. We can see **Red, Green or Blue** spot of light is on to the mark which we want to teach. Press **TEACH** switch till the **READY** LED is on. When **READY** LED turns ON, release the switch. **READY** LED will be ON for some time. Then it will start blinking which means teach of mark is finished, now we need to teach the background.
2. Now set **Red, Green or Blue** light spot on the background and press again **TEACH** switch till **READY** LED becomes fully ON. When it is ON, release the switch after some time so **READY** LED will turn off and teach is completed.

Now you can use the color mark sensor successfully.

If in any case, while completing steps 1 and 2, **READY** LED keep blinking (but at slower rate than at the time of background teaching) then it means that there is not enough contrast ratio between background color and mark color or, either the mark or background is not properly taught. The color mark sensor can not give any output if **READY** LED is blinking. So to get out of this condition, follow the steps from 1 and 2.

If teach is completed successfully **READY** LED will turn off. When the mark is detected, **OUTPUT** LED will be ON till mark is in front of the sensor and one PNP and NPN pulse will be available on their respective output lines.

CONNECTIONS

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|-------------|----------------------|
| Red Wire | - Supply 12 V - 24 V |
| Black Wire | - NPN O/P |
| Green Wire | - PNP O/P |
| Shield Wire | - GND |