



CMS-5X **COLOR MARK SENSOR**

Features

- ► Ultra Fast Response
- ► Compact & Sleek Design
- ▶ Ambient light noise
- rejection for better color recognition
- ► Unmatched accuracy with multi-color sensing
- ► Standard mounting for easy installation
- ► Scratch resistance lens for dusty applications

Specification

Operating Distance

10-15 mm

Minimum Spot Diameter

5 mm

Red (630 mm)

Emission Type Green (520 mm)

Blue (465 mm)

Ambient Light Rejection

Vibration

0.5 mm amplitude, 10 to 55 Hz Frequency

Response Time

2 Milisecond

Minimum Mark Output Delay 20ms

Output

Output NPN/PNP **Output Current** 25mA max

Auxiliary Power Supply

Power Supply

12-24V DC

Current Consumption

35mA max.@24V DC

LED Indication & Keys

LED 1 Mark LED (Green)

LED 2 Output LED (Red)

LED₃ Background LED (Yellow)

PUSH BUTTON Button 1: Mark Button

Button 2: Background Button

Environmental

Operating Temperature -10 to 50°C

-20 to 70°C Storage Temperature

Relative Humidity 95% RH Non-condensing

Physical

44 (H) x 57 (W) x 27 (D) Dimension(mm)

Housing Material ABS White Color

Connection Shielded 4 Wire Cable

Lens Material Glass Weight 150 gm

Application

Printing Machinery

Packaging Machinery

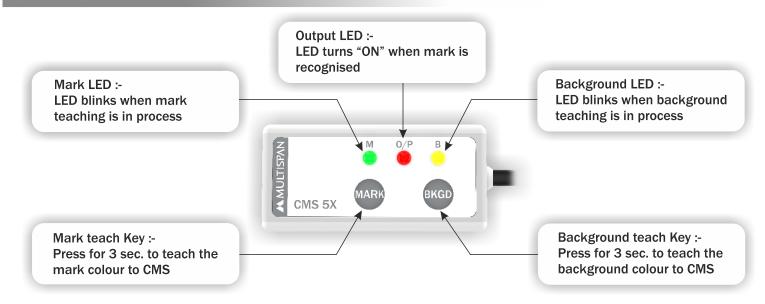
Food & Beverage

Pharmaceutical Applications

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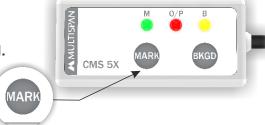
Page 01 www.multispanindia.com

User Interface



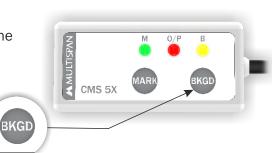
Mark Teaching

- Align the light spot on the mark then press the mark key for 3 sec. to teach the mark colour to CMS.
- Wait till all the 3 colour (R-G-B) sensing is automatically completed.
- The Mark LED will continuously blink till the mark teaching is in process as soon as the mark teaching is completed the background LED will start blinking for background sensing.

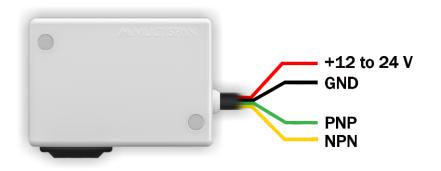


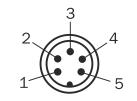
Background Teaching

- Align the light spot on the background (non-mark area) then press the background key for 3 sec. to teach the background colour to CMS.
- Wait till all the 3 colour (R-G-B) sensing is completed.
- The background LED will continuously blink till the background teaching is in process as soon as the background teaching is completed the background LED will turn "OFF".



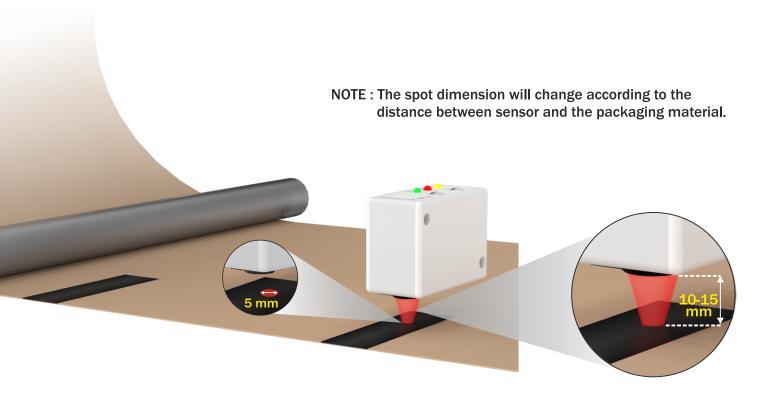
Electrical Connection & Pinout





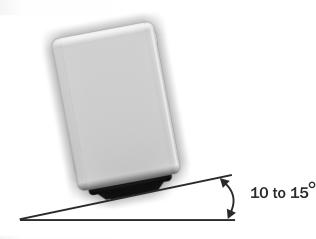
- 1. +12 to +24 V
- 2. GND
- 3. NPN
- 4. PNP
- 5. Not Connected

Spot Characteristics



Sensing Glossy Suface

- Object with a glossy surface have a large amount of specular reflection particles that may destabilize sensing. In such a case, by slightly tilting the sensor, the output can be more stable.
- If the surface of the sensing object has a shine, mount the sensor inclining approx. 10 to 15 degrees against the packaging material.



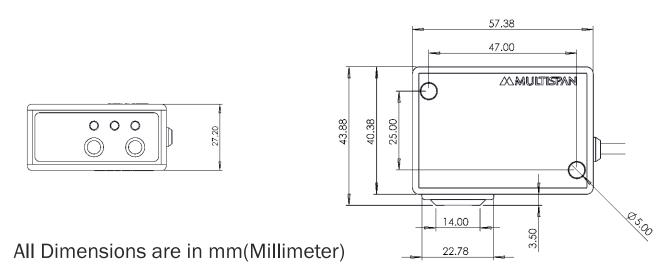
Precautions For Proper Wiring

- Take care that wrong wiring will damage the sensor.
- Verify that the supply voltage variation is within the rating.
- Do not use during the initial transient time (3 sec.) after the power supply is switched on.
- Do not run the wires together with high-voltage lines or power lines.
 This can cause malfunction due to induction.
- Take care that short-circuit of the load or wrong wiring may burn or damage the sensor.
- However, in order to reduce noise, make the wiring as short as possible.

Precautions for Proper Use

- Take care that the sensor is not directly exposed to fluorescent light from a rapid-starter lamp or a high frequency light device or sunlight etc., as it may affect the sensing performance.
- Do not touch the lens of the sensor by hand directly. If the lens becomes dirty, wipe it off with a soft cloth gently.
- Do not use this sensor in places having excessive vapor, dust, etc., or where it may come in direct contact with water, or corrosive gas, It may damage the sensor.
- Take care that the product does not come in contact with water, oil, grease, or organic solvents, such as, thinner, etc.
- This sensor cannot be used in an environment containing inflammable or explosive gases.
- Never disassemble or modify the sensor otherwise the warranty will be void.

Dimension



Multispan reserves the right to change specifications without prior notice. Printing and typographical errors reserved. Product improvement and upgrade is a constant procedure. So for more updated operating information & support. Please contact our Helpline: +91-9081078683 or Email At service@gmail.com



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