

ColorMax Discrete

COLOR SENSORS

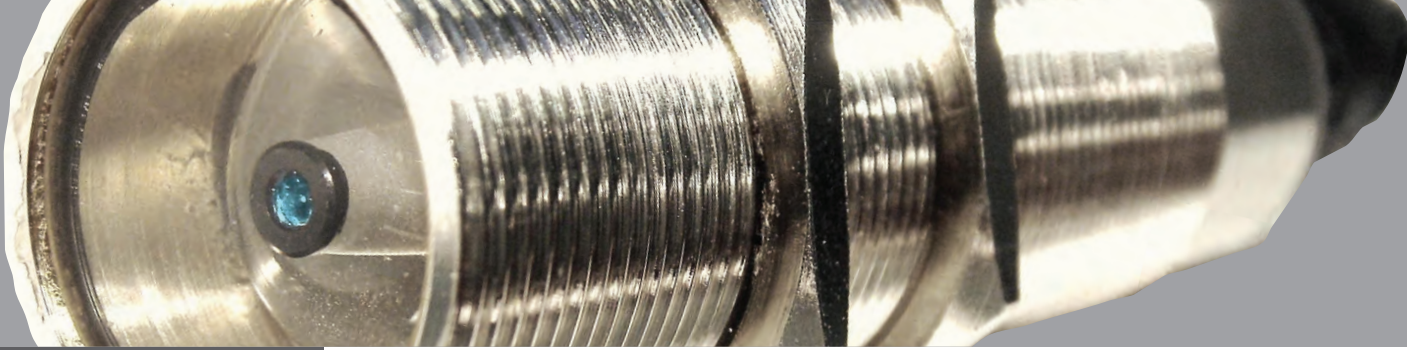
Verify the presence of targets that can be differentiated by color faster and with greater control. The ColorMax™ employs our field-proven, patented technology to provide an easy-to-use system for measuring color in a wide variety of applications. Fast response makes the ColorMax suitable for high-speed automation processes such as printing, packaging and sorting operations. Accurate color measurement and reliable performance makes the ColorMax the perfect choice for automotive, pharmaceutical and plastics industries.

The ColorMax discrete models provide 1, 4, or 7 programmable color recognition channels with PNP/NPN outputs for direct connection to PLC for easy integration into your automation systems.

ColorMax Application Program provides a comprehensive approach to sensor set-up, color channel management and real-time sample analysis display. Low color variation of 0.5% and a 20kHz switching frequency are the best specs in the industry, providing the performance required by demanding applications. The metal alloy case and glass lens provide robust construction expected in an industrial environment.

COLORMAX





Applications

- Automotive assembly, parts
- Packaging, pharmaceutical, food
- Plastic and rubber parts
- Electronic components
- Paper labels, printing

Design & Features

- Fastest response time
- Highest resolution
- Auto-teach and manual functions
- Sophisticated algorithms that ignore luster
- PC-based configuration
- USB / RS232 Interface
- Lock out operator from changing settings

Ordering Information



Model	outputs	spot size (mm)
CM1000-1-4	1	4
CM1000-4-4	4	4
CM1000-7-4	7	4
CM1000-1-8	1	8
CM1000-4-8	4	8
CM1000-7-8	7	8
CM1000-7-25	7	25

Accessories



CM1000-KIT2

Functions

COLOR RECOGNITION
AVERAGING
TEACH
TOLERANCE
EXTERNAL TRIGGER
ILLUMINATION
RGB VALUE DISPLAY
DISCRETE OUTPUT

Up to 7 channels
 1 to 64 readings
 RGB values 1 to 100%
 0.5% to 50%
 Level, Edge, Free Run
 0 to 100%
 Bar graph - absolute value, Pie chart - relative value
 High or Low (V_ or ground)

Specifications

Detection Range	4mm spot 30mm-50mm 8mm spot 30mm-100mm 25mm spot 30mm-150mm
Recommended Operating Distance	50mm
Spot Diameter	4,8 or 25mm @ 50mm target distance
Light Source	White LED
Switching Frequency	20 kHz
Receiver	RGB photodiode
Discrete Outputs	1, 4 or 7
Power	12-30 VDC
External Trigger	12-30 VDC
Communication	RS-232C / USB
Protection Circuitry	Reverse polarity, over current (PTC thermal resettable fuse) (length, diameter) 110mm x 30mm
Dimensions	180g (.4lbs)
Weight	316 stainless steel
Housing	IP67 NOT FOR PRESSURE WASH DOWN
Type of Protection	-10 to 55°C
Operating Temperature	-20 to 70°C
Storage Temperature	12-pin, IP67
Connector Circular	Mounting bracket, jam nuts (two), interface cable assembly, 12 VDC power supply, application software, I/O board with status indicators
Accessories	



- Exclusive PC-based configuration.
- Operator lockout prevents operators from changing the sensor settings in order to avoid reporting manufacturing quality issues.
- Software driven control of discrete output logic



WARRANTY EMX INC. the product described herein for a period of 2 years under normal use and service from the date of manufacture. The product will be free from defects in material and workmanship. This warranty does not cover ordinary wear and tear, abuse, misuse, overloading, altered products, or damage caused by the purchaser from incorrect connections, or lightning damage. There is no warranty of merchantability. There are no warranties expressed, implied or any affirmation of fact or representation which extend beyond the description set forth herein. EMX Inc. sole responsibility and liability, and purchaser's exclusive remedy shall be limited to the repair or replacement at EMX's option of a part or parts not so conforming to the warranty. In no event shall EMX Inc. be liable for damages of any nature, including incidental or consequential damages, including but, not limited to any damages resulting from non-conformity defect in material or workmanship.

NOT INTENDED FOR USE IN PERSONAL SAFETY APPLICATIONS.

MADE IN THE USA

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