

CMYX

COLOR MARK SENSOR

Increase process throughput with high-speed, accurate and reliable color mark detection. The CMYX™ employs our field-proven, patented technology, combining a broad-spectrum light source, small spot size and fast response to achieve high-speed mark detection capable of detecting standard one-track PHARMA-CODE (0.5mm thin bar width) at 2000ft/min. The metal alloy case and glass lens provide robust construction expected in an industrial environment.

Whether you need to verify color mark presence or measure the position of the print-to-cut triangle, the CMYX provides the accuracy and precision for reliable process control.

The CMYX features a 2-digit display that provides an indication of signal strength making set-up and integration quick and easy. The versatile sensor provides user set-up parameters including light source intensity adjustment, detection threshold and gain selection making the CMYX useful in a wide range of applications.

The CMYX includes a discrete PNP/NPN output that is automatically set for PNP or NPN operation.

CMYX



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EMX Industries, Inc.



Applications

- Color verification
- Printing processes
- Registration mark detection
- Print-to-cut control, folder gluer applications
- Pharma code
- Small part detection

Design & Features

- 0.4mm spot size
- 25uS response time
- Display range 00-99
- Broad spectrum white LED
- Adjustable gain
- Programmable discrete output
- Automatic and manual threshold adjustment
- Small size

Ordering Information



CMYX
Color Mark Sensor

Accessories



UVX-300B
Bracket



UVX-300C
Cable 5P, 5M, M12, F

Functions

NORMAL OPERATING MODE
CALIBRATION
THRESHOLD
LED INTENSITY
HYSTERESIS LEVEL
DISCRETE OUTPUT
SECURITY
TEACH MODE

Displays relative reflection intensity
 User sensitivity adjustment
 Set detection level
 Set LED, LO, MED, HI
 Set undetect level 1-9 steps below threshold
 Set normally open or normally closed
 Lock/unlock pushbutton controls
 Auto-set detection threshold

Specifications

White light source
Sensing distance
Spot size
Distance Variation Sensitivity
Response time
Switching Frequency
LED intensity
Relative intensity display range
Sensitivity
Signal level
Detection threshold
Digital Output
Output Function
Security
Power indicator
Detect indicator
Programming indicator
Data retention
Dimensions
Weight
Supply Voltage
Operating Current
Short Circuit Protection
Overload / Reverse Polarity Protection
Operating temperature
Storage temperature
Housing
Mechanical Protection

LED, min. 100,000 hrs.
 25mm
 0.4mm dia.
 <3% @ +/- 1mm from focal point
 25uS
 40kHz
 3 levels
 00 to 99
 Adjustable
 Two 7 segment digits
 Two 7 segment digits
 Auto-Detect NPN/PN
 NO/NC selectable
 LOCK / UN-LOCK keypad
 Green LED
 Red LED
 Yellow LED

Indicators

7-Segment display
 Green LED
 Red LED
 Yellow LED

LED
 Power
 Detect
 Program

Connector M12

Pin 1 Power to 24VDC
 Pin 2 Discrete output
 PNP/NPN NO/NC
 Pin 3 Ground
 Pin 4 Not used
 Pin 5 Remote LOCK/
 UNLOCK input

10-24 VDC
 60 mA
 Discrete output
 Supply voltage
 -20°C...55°C
 -20°C...70°C
 Metal alloy
 IP67 NOT FOR PRESSURE WASHDOWN

WARRANTY

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.



EMX INC. the product described in this series period of light sensor and service from the