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.





Rugghölzli 2 CH - 5453 Busslingen Tel. +41 (0)56 222 38 18 Fax +41 (0)56 222 10 12



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

NOT INTENDED FOR USE IN PERSONAL SAFETY APPLICATIONS.



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

Functions

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

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** 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

LED, min. 100,000 hrs.	Indicato	rs	
25mm	7-Seg	ment display	LED
0.4mm dia.		Green LED	Power
<3% @ +/- 1mm from focal	point	Red LED	Detect
25uS		Yellow LED	Program
40kHz			
3 levels	Connec		
00 to 99		Pin 1	Power to 24VDC
Adjustable		Pin 2	Discrete output
Two 7 segment digits			PNP/NPN NO/NC
Two 7 segment digits		Pin 3	Ground
Auto-Detect NPN/PN		Pin 4	Not used
NO/NC selectable		Pin 5	Remote LOCK/
LOCK / UN-LOCK keypad			UNLOCK input
Green LED			
Red LED			
Yellow LED			
EEPROM non-volatile mer			
51mm (2.0") x 61mm (2.4")	x 25mm	(1.0")	
95 g (0.21 lbs.)			
10-24 VDC			
60 mA			
Discrete output			
Supply voltage			
-20°C55°C			
-20°C70°C			
Metal alloy			
IP65 NOT FOR PRESSURE	E WASH	DOWN	

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 nonconformity defect in material or workmanship.

MADE IN THE USA

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Rugghölzli 2 CH - 5453 Busslingen Tel. +41 (0)56 222 38 18 Fax +41 (0)56 222 10 12 mailbox@sentronic.com www.sentronic.com