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

EMX

INDUSTRIES

SENTRONIC AG Produkte, Support und Service

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

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

Functions

NORMAL OPERATING MODE	Displays relative reflection intensity
CALIBRATION	User sensitivity adjustment
THRESHOLD	Set detection level
LED INTENSITY	Set LED, LO, MED, HI
HYSTERESIS LEVEL	Set undetect level 1-9 steps below threshold
DISCRETE OUTPUT	Set normally open or normally closed
SECURITY	Lock/unlock pushbutton controls
TEACH MODE	Auto-set detection threshold

Specifications

White light source	LED, min. 100,000 hrs.	**Indicators**	
Sensing distance	25mm	7-Segment display	LED
Spot size	0.4mm dia.	Green LED	Power
Distance Variation Sensitivity	<3% @ +/- 1mm from focal point	Red LED	Detect
Response time	25uS	Yellow LED	Program
Switching Frequency	40kHz		
LED intensity	3 levels	**Connector M12**	
Relative intensity display range	00 to 99	Pin 1	Power to 24VDC
Sensitivity	Adjustable	Pin 2	Discrete output
Signal level	Two 7 segment digits		PNP/NPN NO/NC
Detection threshold	Two 7 segment digits	Pin 3	Ground
Digital Output	Auto-Detect NPN/PN	Pin 4	Not used
Output Function	NO/NC selectable	Pin 5	Remote LOCK/
Security	LOCK / UN-LOCK keypad		UNLOCK input
Power indicator	Green LED		
Detect indicator	Red LED		
Programming indicator	Yellow LED		
Data retention	EEPROM non—volatile memory		
Dimensions	51mm (2.0") x 61mm (2.4") x 25mm (1.0")		
Weight	95 g (0.21 lbs.)		
Supply Voltage	10-24 VDC		
Operating Current	60 mA		
Short Circuit Protection	Discrete output		
Overload / Reverse Polarity Protection	Supply voltage		
Operating temperature	-20°C…55°C		
Storage temperature	-20°C…70°C		
Housing	Metal alloy		
Mechanical Protection	IP65 NOT FOR PRESSURE WASHDOWN		

Accessories

UVX-300B
Bracket

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

NOT INTENDED FOR USE IN PERSONAL SAFETY APPLICATIONS.

MADE IN THE USA

SENTRONIC AG Produkte, Support und Service

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