CNTX

ADVANCED CONTRAST SENSOR

Increase process throughput with high-speed, accurate and reliable contrast differentiation. The CNTX™ combines a broad-spectrum light source, small spot size and fast response to achieve high-speed contrast differentiation of both neutral and color targets. The CNTX employs our field-proven, patented technology, for effective detection of registration marks, glossy surfaces, cap inserts, date codes and sorting of product by color in many industrial applications. The metal alloy case and glass lens provide robust construction expected in an industrial environment.

The CNTX 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 CNTX useful in a wide range of applications.

The CNTX includes both a discrete PNP/NPN output and an analog output. The discrete output is automatically set for PNP or NPN operation. The analog output signal may be used to access targets based on their reflectance characteristics.

EMX
INDUSTRIES

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Applications

- Sort products by color
- Detect registration marks
- Confirm presence of date codes
- Detection of glossy surfaces
- Detects cap inserts

Design & Features

- 0.5mm or 3.0mm spot size
- 25uS response time
- Display range 00-50
- Broad spectrum white LED
- Adjustable LED intensity
- Two gain settings
- Programmable discrete output
- Threshold adjustment
- Analog output

Ordering Information

CNTX-30-0
Advanced Contrast Sensor
3.0mm light spot

CNTX-05-0
Advanced Contrast Sensor
0.5mm light spot

Accessories

UVX-300B
Bracket

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

**NOT INTENDED FOR USE IN
PERSONAL SAFETY APPLICATIONS.**

Functions

NORMAL OPERATING MODE	Displays relative reflection intensity
SENSITIVITY	X1 and X10
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
OUTPUT PULSE STRETCH	Set minimum output period 10…90mS
SECURITY	Lock/unlock pushbutton controls
TEACH MODE	Auto-set detection threshold

Specifications

White light source	Broad spectrum LED, min. 100,000 hours	**Indicators**		LED
		7-Segment display		
Sensing distance	28mm	**Green LED**		Power
Spot size	0.5mm or 3.0mm dia.	**Red LED**		Detect
Depth of field	+/- 3mm	**Yellow LED**		Program
Response time	25uS			
Switching Frequency	40kHz	**Connector M12**		
LED intensity	3 levels		**Pin 1**	Power to 24VDC
Relative intensity display range	00 to 50		**Pin 2**	Discrete output
Sensitivity	1X, 10X			PNP/NPN NO/NC
Signal level	Two 7 segment digits		**Pin 3**	Ground
Detection threshold	Two 7 segment digits		**Pin 4**	Analog output
Digital Output	Auto-Detect NPN / PNP			0 to 5V DC
Output Function	NO/NC selectable		**Pin 5**	Remote LOCK/
Security	LOCK/UNLOCK keypad			UNLOCK input
Power indicator	Green LED			
Detect indicator	Red LED			
Programming indicator	Yellow LED			
Data retention	EEPROM non—volatile memory			
Dimensions	2.0" (51mm) x 2.4" (61mm) x 1.0" (25mm)			
Weight	0.21 lbs. (95g)			
Supply Voltage	10-24 VDC			
Operating Current	60 mA			
Short Circuit Protection	Discrete output			
Overload / Reverse Polarity Protection	Supply voltage			
Operating temperature	-20ºC…55ºC			
Storage temperature	-20ºC…70ºC			
Housing	Metal alloy			
Mechanical Protection	IP65 NOT FOR PRESSURE WASH DOWN			

MADE IN THE USA