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.



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

- 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



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



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



UVX-300B Bracket



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

NOT INTENDED FOR USE IN PERSONAL SAFETY APPLICATIONS.

Functions

NORMAL OPERATING MODE SENSITIVITY THRESHOLD LED INTENSITY **HYSTERESIS LEVEL DISCRETE OUTPUT OUTPUT PULSE STRETCH** SECURITY **TEACH MODE**

Specifications

White light source

Sensing distance Spot size Depth of field **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 X1 and X10 Set detection level Set LED, LO, MED, HI Set undetect level 1-9 steps below threshold Set normally open or normally closed Set minimum output period 10...90mS Lock/unlock pushbutton controls Auto-set detection threshold

Broad spectrum LED, min. 100,000 hours 7-Segment display | LED 28mm 0.5mm or 3.0mm dia. +/- 3mm 25uS 40kHz Connector M12 3 levels 00 to 50 1X, 10X Two 7 segment digits Two 7 segment digits Auto-Detect NPN / PNP NO/NC selectable LOCK/UNLOCK keypad Green LED Red LED Yellow LED EEPROM non-volatile memory 2.0" (51mm) x 2.4" (61mm) x 1.0" (25mm) 0.21 lbs. (95g) 10-24 VDC 60 mA Discrete output Supply voltage -20°C...55°C -20°C...70°C Metal allov **IP65 NOT FOR PRESSURE WASH DOWN**

Indicators

Green LED Power Red LED Detect Yellow LED Program

> Pin 1 Power to 24VDC Pin 2 Discrete output PNP/NPN NO/NC Pin 3 Ground Analog output Pin 4 0 to 5V DC Pin 5 Remote LOCK/

> > **UNLOCK** input

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.