CNTX-30-TP

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 durable plastic case and polycarbonate lens provide robust construction expected in an industrial environment.

The CNTX provides simple, two-button teach with mark and background keys. The flexibility of the CNTX makes it easy to set-up in a wide variety of printing, packaging and converting applications. The CNTX is a perfect fit for many applications that require the ability to differentiate between two conditions that vary in contrast.

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.





Rugghölzli 2 Te CH - 5453 Busslingen Fa

Tel. +41 (0)56 222 38 18 Fax +41 (0)56 222 10 12 mailbox@sentronic.com www.sentronic.com



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

- 3.0mm spot size
- 25uS response time
- Two-button teach
- Broad spectrum white LED
- · Automatic LED intensity adjustment
- PNP/NPN
- Discrete output
- Analog output
- Small size



CNTX-30-TP Contrast Sensor, 3mm spot



CNTX-35-TP Contrast Sensor, 0.5mm spot

Functions

OPERATING MODE MARK BACKGROUND RED LED ON GREEN LED ON YELLOW LED ON **RED FLASHING GREEN FLASHING YELLOW FLASHING** The CNTX-30-TP is in operating mode in detect or undetect state Sets mark level Sets background level

Mark detected Background detected

Mark or background measurement in progress

Background set, measure mark Mark set, measure background

CNTX-35-TP 0.5mm dia.

LOCK/UN-LOCK keypad

Insufficient contrast

Specifications

White Light source

Sensing distance Spot size

Depth of field Response time **Switching Frequency** LED intensity **Gray Scale Digital Output Analog Output** Security Background indicator **Detect indicator Data retention Dimensions** Weight **Supply Voltage Operating Current Short Circuit Protection Overload / Reverse Polarity Protection Operating temperature** Storage temperature Housing **Mechanical Protection** Broad spectrum LED, Indicators

min. 100.000 hours Green LED | Power 28mm Yellow LED Detect CNTX-30-TP 3.0mm dia. Connector M12

+/- 3mm Power 10 to 24VDC 25uS Pin 2 Analog output 0 to 40kHz 5V DC 3 levels Pin 3 Ground 0 to 50 Pin 4 Discrete output Auto-Detect NPN/PNP PNP/NPN 0...5V (20mV resolution)

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 Plastic

Green LED

IP65 NOT FOR PRESSURE WASH DOWN



130-10140362

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.

NOT INTENDED FOR USE IN PERSONAL SAFETY APPLICATIONS.



©EMX Industries, Inc. all rights reserved. REV 1. 11/14/11

