BriteX-100 BRIGHTNESS SENSOR

High sensitivity sensor is affordable enough for multi-point sensing. The BriteX-100[™] employs our field-proven, patented technology to provide a simple solution for on-line monitoring and detection of a wide variety of materials in manufacturing and packaging applications. The BriteX-100 can detect differences in color, brightness and surface texture at a lower cost than competing products. BriteX-100 improves process control by allowing more measurement points for real-time process feedback. Tighter control of processes can reduce operating costs and minimize quality variations.

The BriteX sensor measures relative brightness defined by ISO 2470 as a reflectance factor of diffused blue light at 457nm. The BriteX 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.

The BriteX includes both a discrete PNP/NPN output and an analog output. The analog output signal may be used to access targets based on their reflectance characteristics.



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- Carpet
- Plastic products
- Paper and cardboard products •
- **Registration marks**
- I abels
- Reflective surfaces

- Optimized for small target area
- High sensitivity and high resolution
- Fast response
- Display range 00-99
- Adjustable gain
- Analog output
- PNP/NPN discrete output



BriteX-100 Brightness sensor



UVX-300B Bracket



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

SENTRONICAG Produkte, Support und Service

NOT INTENDED FOR USE IN PERSONAL SAFETY APPLICATIONS.



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

Specifications

Light source Spot size Light source intensity Sensing distance **Receiver Spectral Response Response time** Switching Frequency Relative intensity display range Sensitivity Signal level **Detection threshold Digital Output Output Function Analog Output** 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 Set minimum output period 10...90mS Lock/unlock pushbutton controls Auto-set detection threshold

457 LED life 100,000 hours Indicators 8mm dia. @ 40mm 7-Segment display 3 levels Green LED up to 150mm Red | FD 350...1000nm Yellow LED <150uS 6kHz Connector M12 00 to 99 Adjustable Two 7 segment digits Two 7 segment digits Auto-Detect PNP / NPN NO/NC selectable 0...5V Green LED Red LED Yellow LED EEPROM non-volatile memory 51mm x 100mm x 25mm (2.0" x 4" x 1.0") 95 g (0.21 lbs.) 24 VDC 60 mA Discrete output Supply voltage -20°C...55°C -20°C...70°C Metal allov

Power Detect Program

LED

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

IP65 NOT FOR PRESSURE 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 non-conformity defect in material or workmanship.

MADE IN THE USA

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