BriteX-1000S

SUGAR COLOR SENSOR

Measure raw or refined ICUMSA sugar color on-line, at a lower cost than competing systems. The BriteXTM employs our field-proven, patented technology, for effective reflectance measurements of sugar. Monitoring of sugar color allows processes to operate in a more efficient manner while increasing throughput to meet market demands for high color quality. Its high-sensitivity and fast response makes the BriteX suitable for high-speed processes and long-range use. The metal alloy case and glass lens provide robust construction expected in an industrial environment.

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 provides an indication of sugar color that can be correlated with ICUMSA color values.





- Monitor ICUMSA sugar color
- Raw sugar
- Refined sugar
- Measure on centrifugal exit
- Process optimization

- Large spot size
- High sensetivity and high resolution
- Fast response
- Display range 00-99
- Adjustable gain
- Analog output
- PNP/NPN discrete output



BriteX-1000S Sugar color sensor



UVX-300B Bracket



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

Functions

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

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

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**

MADE IN THE USA

457 LED life 100,000 hours Indicators 50mm dia. @ 200mm 3 levels up to 900mm 350...1000mm <150uS 6kHz 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 61mm x 25mm (2.0" x 2.4" x 1.0") 95 g (0.21 lbs.) 24 VDC 60 mA Discrete output

IP67 NOT FOR PRESSURE WASH DOWN

7-Segment display | LED Green LED Power Red LED Detect Yellow LED Program Connector M12 Pin 1 Power to 24VDC Pin 2 Discrete output PNP/NPN NO/NC Pin 3 Ground Analog output 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.

Supply voltage -20°C...55°C -20°C...70°C

Metal alloy

