

BriteX-1000S

SUGAR COLOR SENSOR

Measure raw or refined ICUMSA* sugar color on-line, at a lower cost than competing systems. The BriteX™ 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.

BRITEX



EMX Industries, Inc.

4564 Johnston Parkway, Cleveland, Ohio 44128

P. 800 426 9912 F. 216 518 9884

Sales Inquiries: salesupport@emxinc.com **Technical Support:** technical@emxinc.com
www.emxinc.com



Applications

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

Design & Features

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

Ordering Information



BriteX-1000S
Sugar color sensor

Accessories



UVX-300B
Bracket



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

NOT INTENDED FOR USE IN
PERSONAL SAFETY APPLICATIONS.

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

457 LED life 100,000 hours
50mm dia. @ 200mm
3 levels
up to 900mm
350...1000nm
<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
Supply voltage
-20°C...55°C
-20°C...70°C
Metal alloy
IP65 NOT FOR PRESSURE WASH DOWN

Indicators

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
Pin 4 Analog output 0 to
5V DC
Pin 5 Remote LOCK/
UNLOCK input

* ICUMSA Limited has not set a specification for the BRITEX technology. ICUMSA Limited has not reviewed and therefore does not endorse the BRITEX technology. It is ICUMSA Limited's policy not to endorse any proprietary equipment or manufacturer.



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.