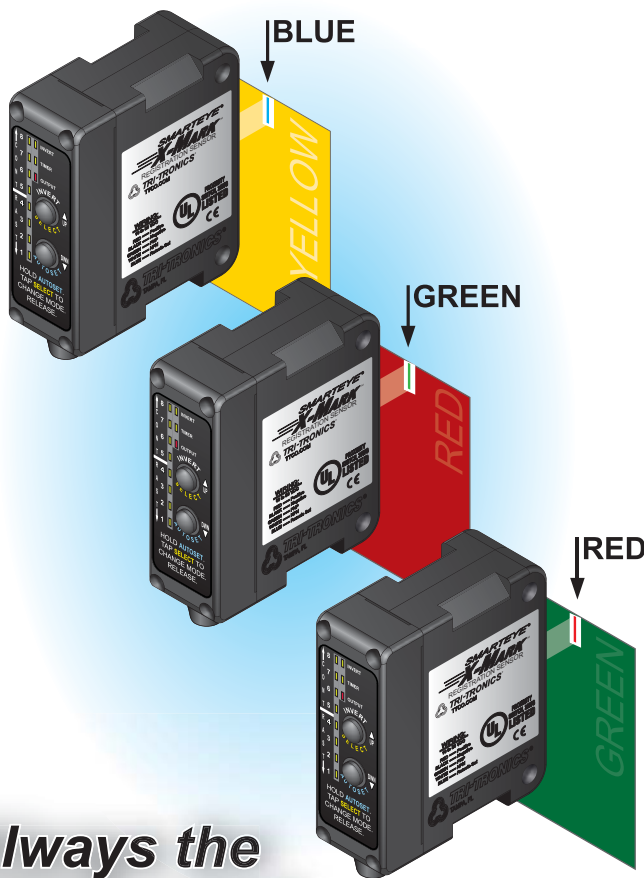




Smart Sensing Solutions Since 1954

NEW! The Addition to the X-Mark family:
Tri-Color LED (RGB) with Line Optics!



Always the
RIGHT color!

SMART EYE[®]
X-MARK[™]
Registration Mark Sensor

- Vertical or Horizontal Line Optics
- Faster Rise-Time for Even Greater Accuracy
- Quicker Alignment for Positioning
- More Forgiving of Background Imperfections
- 12 μ s Response Time
- 6 μ s Repeatability

**We Make
Sensing Easy!**



www.ttco.com/x-mark.aspx

FOLLOW US:



P.O. BOX 25135 • TAMPA, FL 33622-5135
813-886-4000 • 800-237-0946
FAX: 813-884-8818 • 800-375-8861

ttco.com • info@ttco.com



Specifications



SUPPLY VOLTAGE

- 10 to 30 VDC
- Polarity Protected
- Intended for use in Class 2 circuits

CURRENT REQUIREMENTS

- 30mA (exclusive of load; standard model)
- 50mA (exclusive of load; H & V models)

OUTPUT TRANSISTORS

- (1) NPN and/or (1) PNP output transistor.
Note: Dependent on Model; see "How to Specify, #3".
- Outputs sink or source up to 150mA (current limit)
- All outputs are continuously short circuit protected

REMOTE AUTOSET INPUT

- XM/XMC-1 & 2 Models – Momentary sinking input (1mA)
- XM/XMC-3 Models – Momentary sourcing input (1mA)
Note: Remote programming available in XM/XMC-1 Models only.

REMOTE LT/DK INPUT

- XM/XMC-2 Models - Connect to Negative/0VDC
- XM/XMC-3 Models - Connector to Positive/10-30VDC

RESPONSE TIME

- 10µs (standard model)
- 12µs (H & V models)

REPEATABILITY

- 5µs (standard model)
- 6µs (H & V models)

LED LIGHT SOURCE

- White = Broadband Color Spectrum (standard model)
- Tri-Color LED = Red (635nm), Green (520nm) Blue (470nm) - (H & V models)

DIAGNOSTIC INDICATORS

- Contrast Indicator – Display scaled reading of sensor's response to contrasting light levels (light vs. dark) on an 8 bar LED display
Note: All 8 LEDs will flash three times if contrast insufficient or too low in Two-Point AUTOSET mode.
- Red LED Output Indicator – Illuminates when the sensor's output transistors are "ON"
Note: If Output LED flashes, a short circuit condition exists.
- Green LED Timer Indicator – Illuminates when the 10ms pulse stretch timer is enabled
- Red LED INVERT Indicator – Illuminates when INVERT is enabled

PUSHBUTTON CONTROL

- AUTOSET
- INVERT outputs
- Manual Adjustments
- Timer – 10ms Pulse Stretcher

HYSTERESIS

- Dynamic – adjusted by AUTOSET

LIGHT IMMUNITY

- Responds to sensor's pulsed modulated light source – immune to most ambient light including indirect sunlight

AMBIENT TEMPERATURE

- 10°C to 60°C (50°F to 140°F)

RUGGED CONSTRUCTION

- Chemical resistant, high impact polycarbonate housing
- Waterproof ratings: NEMA 4X, 6P and IP67
- Conforms to heavy industry grade CE requirements
- Standard Light Projection Models are UL Listed. Horizontal and Vertical Beam Models are UL Pending"

RoHS Compliant

Product subject to change without notice

Connections and Dimensions

SMARTEYE® X-MARK™

