



TRI-TRONICS®

Smart Sensing Solutions Since 1954

RETROSMART®

CLEAR OBJECT SENSOR

NOW!

With 100 μ s Response Time!



Applications

- Bottle Filling
- Bottle Counting
- Bottle Printing/Coding
- Bottle Labeling
- Plastic, Glass, Shiny Product Detection

Testimonial

"Last year we purchased two *RetroSmart* RSR-1 sensors from you. These things are amazing, it is the only device that we have found that reliably detects our PET Bottles on our production lines.

We have a new Labeling machine that's 'Blind' to our Bottles and we would like to retrofit it with an RSR-1.

I need to order four (4) Pieces immediately."

Cletus Berkeley - Chief Engineer
Technidyne

www.ttco.com/retrosmart

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

CURRENT REQUIREMENTS

- 50 mA (exclusive of load)

OUTPUT TRANSISTORS

- (1) NPN and (1) PNP output transistor:
 - NPN: Sink up to 150 mA
 - PNP: Source up to 150 mA
- Continuous short-circuit protection
- Outputs protected from pulsing during power up

REMOTE AUTOSET INPUT

- Opto-isolated momentary sinking input (10 mA)

RESPONSE TIME

- Light State response = **100** microseconds
- Dark State response = **100** microseconds

LED LIGHT SOURCE

- Red 660 nm
- Pulse Modulated

PUSH BUTTON CONTROL

- "One-Touch" AUTOSET push-button setup
- Tweak adjustments with "up" or "down" buttons
- LST™ (Light State Tracking) Enable/Disable
- Light "ON" / Dark "ON" selection

RANGE

- Optimum from 6 in. to 8 ft. (15.24 cm to 2.4 m) distance to the AR6151 reflector

HYSTERESIS

- Two bars as displayed on Contrast Indicator
 - Light State Switch = 5
 - Dark State Switch = 3

OPTIMIZED FOR CLEAR OBJECT DETECTION

LIGHT IMMUNITY

- Responds to sensor's pulse-modulated light source, resulting in high immunity to most ambient light, including high intensity strobes

DIAGNOSTIC INDICATORS

- Contrast Indicator-Display scaled reading of sensor's response to contrasting light levels (light vs. dark) on an 8-bar LED display
- Red LED "LOCK" Indicator
- Green LED LST (Light State Tracking)
- Red Output Status Indicator

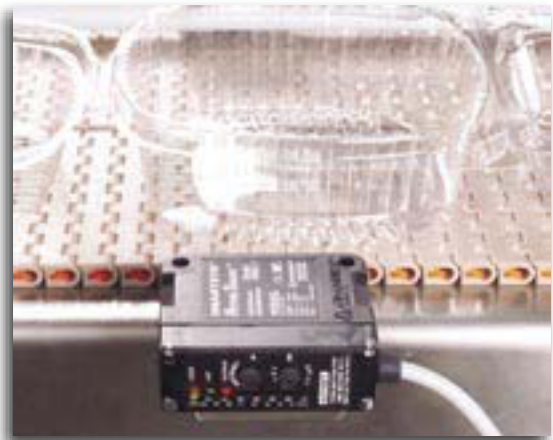
AMBIENT TEMPERATURE

- -40° to 70° C (-40° to 158° F)

RUGGED CONSTRUCTION

- Chemical resistant, high-impact polycarbonate housing
- Waterproof ratings: NEMA 4, IP66

Product subject to change without notice.



CONNECTIONS AND DIMENSIONS

SMARTEYE® RETROSMART™

