

## Specifications

### Supply Voltage

- 10 to 30 VDC
- Polarity Protected

### Current Requirements

- 50 mA (exclusive of load)

### Output Transistors

- (1) NPN and (1) PNP sensor output transistor
- Sensor's output can sink or source up to 150 mA (current limited)
- All outputs are continuously short-circuit protected

### Remote AUTOSET™ Input

- Opto isolated momentary sinking input (10 mA)

### Response Time

- Light State response = **100** μs (microseconds)
- Dark State response = **100** μs (microseconds)

### LED Light Source

- Red = 660 NM
- Pulse Modulated

### Push Button Control

- AUTOSET™ Routine
- Manual Adjustments
- LST Enable/Disable selection
- Light /Dark "ON" selection

### Range

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

### Hysteresis

- 2 to 3 bars on the Contrast Indicator

### Light Immunity

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

### Diagnostic Indicators

- 8 LED Contrast Indicator displays scaled reading of sensor's response to contrasting light levels (light to dark)
- Red LED "LOCK" Indicator
- Green LED LST™ (Light State Tracking) Indicator
- Red Output Status Indicator

### Ambient Temperature

- -40° to 158° F (-40° to 70° C)

### Rugged Construction

- Chemical resistant, high impact polycarbonate housing
- Waterproof ratings: NEMA 4, and IP67

### Model Numbers

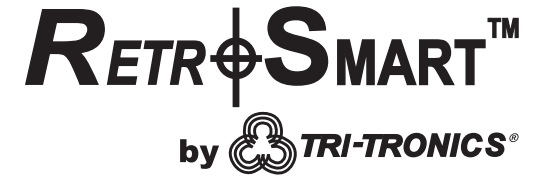
RSR-1 w/ 6' cable  
RSRC-1 w/ 6" pigtail w/connector  
Use GSEC series cable

Product subject to change without notice

P.O. Box 25135, Tampa, FL 33622-5135  
Tel (813) 886-4000 / Fax (813) 884-8818  
info@ttco.com  
ttco.com



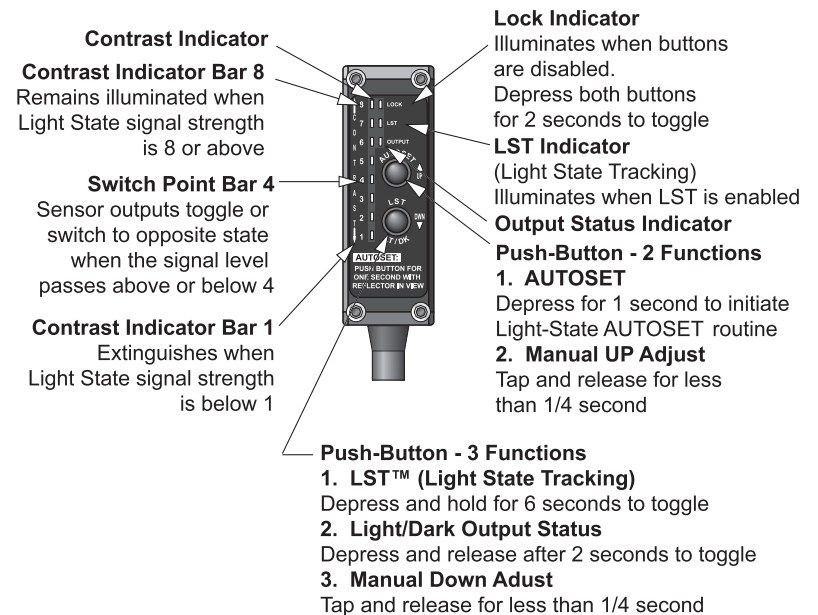
070-0162 rev 5



## Universal Retroreflective Sensor

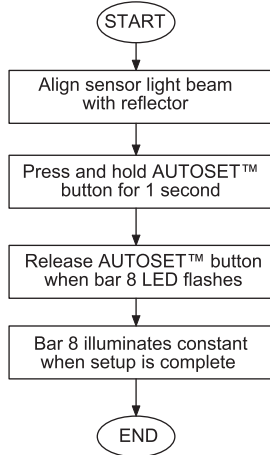
### Features and Benefits:

- Designed specifically to detect transparent/translucent plastic or glass containers, as well as shiny metal cans
- Operates in the retroreflective (Beam Break) sensing mode, using a high performance reflector (AR6151 reflector included with sensor)
- Range (distance to reflector) 6 in. to 8 ft. (15.24 cm to 2.4 m)
- AUTOSET setup routine requires a single push of a button with the reflector in view
- Remote AUTOSET feature allows the sensor to be adjusted from a remote location
- LST™ (Light State Tracking) establishes and maintains a level "8" on the Contrast Indicator as input events are on-going
- Lock disables buttons for tamper-proof operation
- Light "ON"/Dark "ON" selection: depress the LT/DK button to toggle the output status
- 8 LED Contrast Indicator provides "at a glance" performance data during both setup and operation



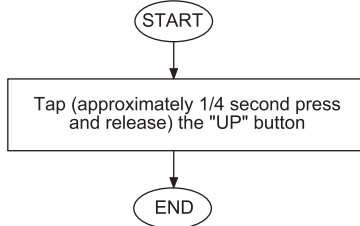
# Push-Button Control Setup Routines

## AUTOSET™ Adjust

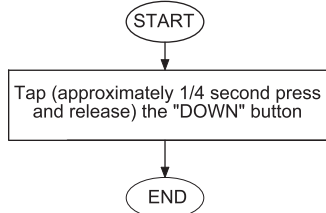


## Manual Adjust

A. Move illuminated bar on Contrast Indicator up one segment

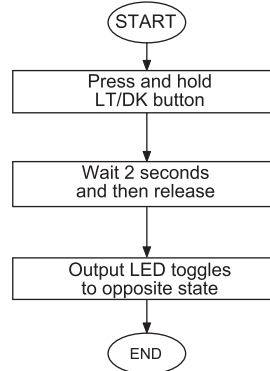


B. Move illuminated bar on contrast indicator down one segment

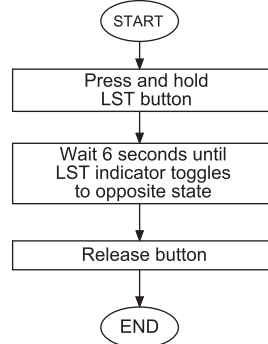


**NOTE:** When manually adjusting the sensor, signal strength may be off scale (above bar 8 or below bar 1) and the bar graph segment may not move to the next position.

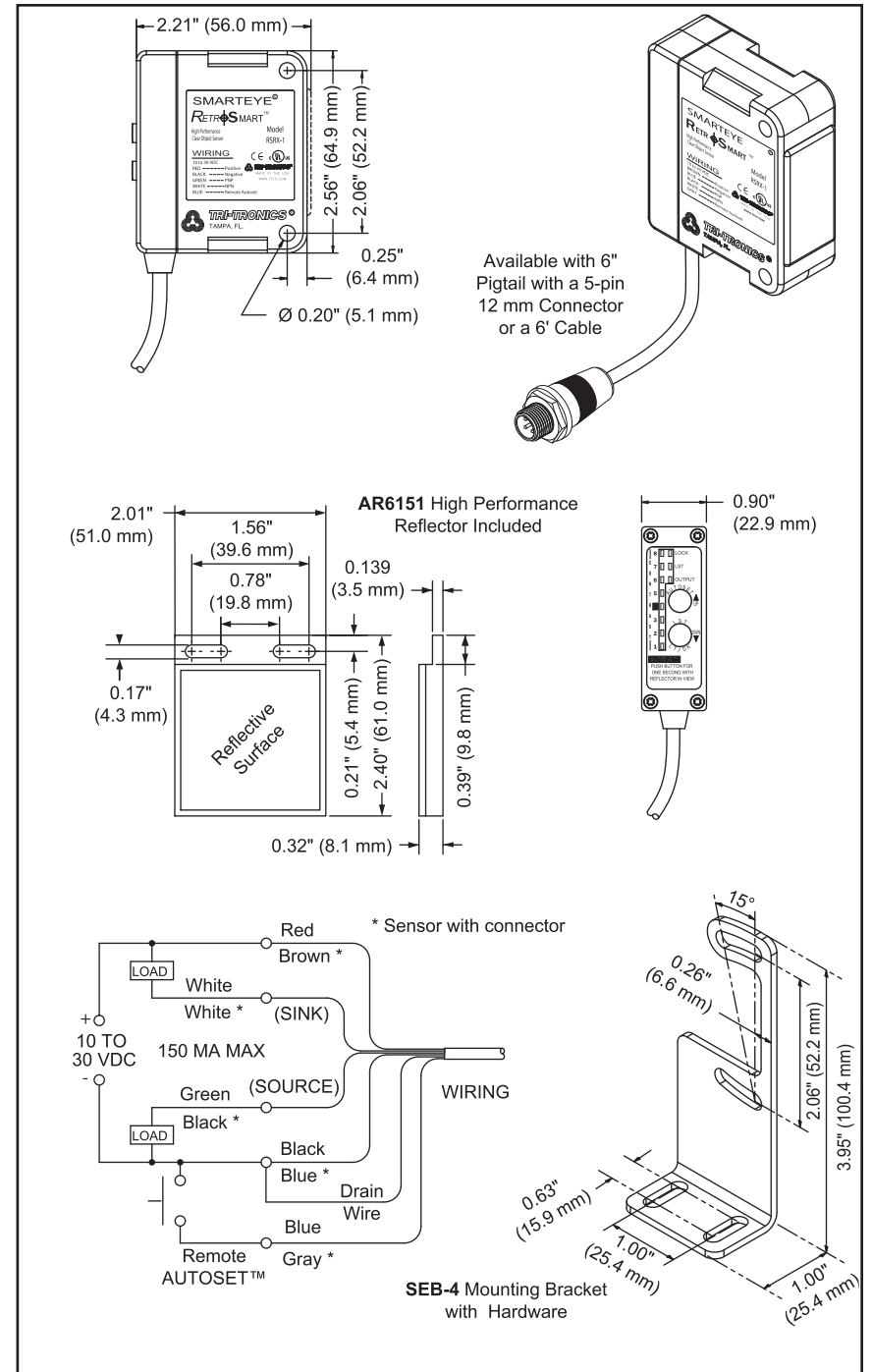
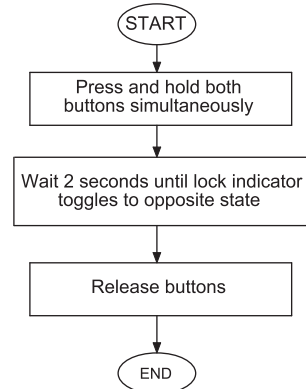
## Toggle Light/Dark Operate



## Enable/Disable LST Light State Tracking



## Enable/Disable Lock



**\*IMPORTANT:** Sensor and Reflector must be mounted rigidly to insure proper operation.