INVISIGUARD™ RAZOR

INSTALLATION INSTRUCTIONS

Description	Page
IG-R	3
IG-RN	9
IG-RDC	15
Specifications	20
Dimensions	20
Spare Parts	21

TRI-TRONICS®

WARRANTY & LIMITATION OF LIABILITY

TRI-TRONICS COMPANY, INC. warrants that the products delivered by it will be of the kind and quality described in the order or contract and will be free of defects in workmanship or material. Should any failure to conform to the express warranty appear within three (3) years, TRI-TRONICS shall upon notification correct such non-conformity, including non-conformance with the specifications, at its option, either by repairing any defective part or parts or by making available, F.O.B. the seller's plant, a repaired or replacement part. This warranty shall be for a period of three (3) years after the date of delivery of any product not meeting such specifications.

This warranty is in lieu of all warranties of merchantability, fitness for purpose, or other warranties, expressed or implied, except of title and against patent infringement. Correction of non-conformities in the manner and for the period of time provided above shall constitute fulfillment of all liabilities of TRI-TRONICS to anyone, whether based on contract, negligence, or otherwise with respect to or arising out of such products.

TRI-TRONICS shall not be liable for special, indirect, or consequential damages. The remedies set forth herein are exclusive, and the liability of TRI-TRONICS with respect to any contract or sale or anything done in connection therewith, whether in contract, in tort, under any warranty, or otherwise, shall not, except as expressly provided herein, exceed the price of the product or products on which such liability is based.

This warranty shall not apply to any product which has been subjected to misuse, negligence, accidental or misapplied or modified or repaired usage by unauthorized persons, or as the result of improper installation thereof. Furthermore, any improper use, operation beyond capacity, substitution of parts not approved by TRI-TRONICS, or any alteration or repair by others in such manner as in TRI-TRONICS' judgment affects the product materially and adversely shall void this warranty.

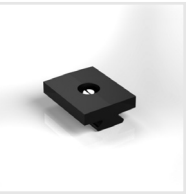
IG-R

Pages 1-8

Arrays

L-Bracket

Straight Bracket



Bracket Retainer

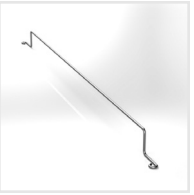
Cable Cover

No. 8 Self-Tapping Screw

Retaining Clip

5m (16.4') Cable

Nylon C-Clamp



Cable Guide

Tie-Wrap

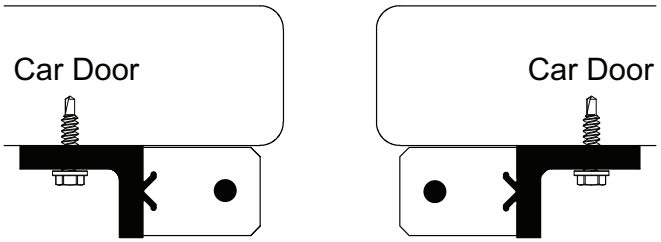
Power Supply PSC-UR

Parts List

Description	Qty
InvisiGuard Arrays	2
L-Bracket	4
Straight Bracket	2
Bracket Retainer	2
Cable Cover	1
No. 8 Self-Tapping Screws	25
Retaining Clip	4
5m (16.4') Cable	2
Nylon C-Clamp	8
Cable Guide	2
Tie-Wrap	8
Power Supply, PSC-UR	1

STEP 1: IG-R

Mount The Arrays



Center Parting Doors

Note: Straight brackets and retaining clips are not used.

- Slide two L-Brackets, one after the other, into dovetail on back at bottom of array. Do this for both arrays. *Note: Orientation of L-Bracket to door mounting position.*
- Fix bracket in place by sliding in bracket retainer and tightening locking screw (see Figure 1). Do not over-tighten. *Note: one retainer provided for each array.*

Mount Arrays

- Note: Leave 3-5mm of space between bottom of array and door sill.
- Using No. 8 self-tapping screws, drive through vinyl L-bracket where needed mounting arrays to door.

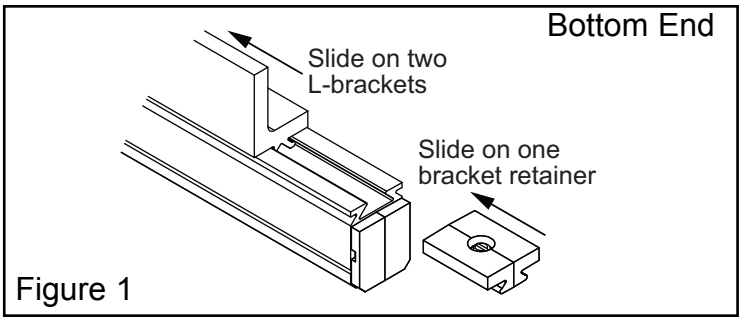


Figure 1

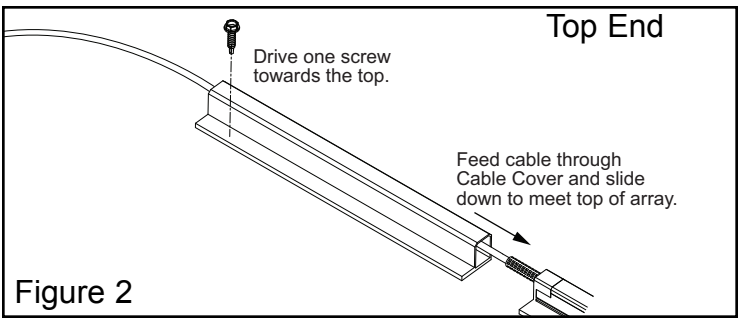
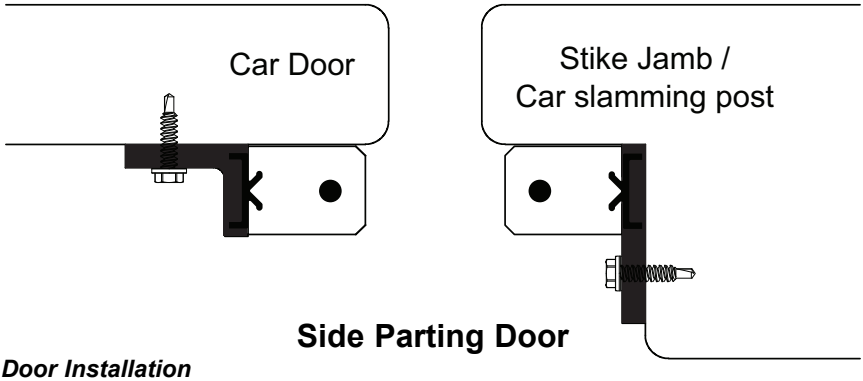


Figure 2



Side Parting Door

Door Installation

- Determine which direction the L-bracket should go depending on left or right door installation. *If needed, the orientation of the brackets can be easily swapped.*
- Slide two L-brackets into dovetail on back at bottom of array.
- Fix bracket in place by sliding in bracket retainer and tightening locking screw (see Figure 1). Do not over-tighten.

Mount First Array

- Note: Leave 3-5mm of space between bottom of array and door sill.
- Using No. 8 self-tapping screws, drive through vinyl L-bracket where needed mounting arrays to door.

Strike Jamb Installation

Option1:

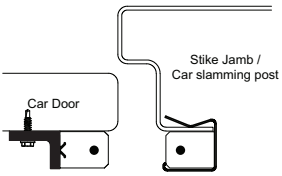
- Hold the other array briefly in place and determine which way the straight bracket should mount against the strike jamb. Insure good alignment between arrays.
- Slide two straight-brackets, one after the other, into dovetail on back at bottom of array.
- Fix bracket in place by sliding in bracket retainer and tightening locking screw (see Figure 1). Do not over-tighten.

Mount Second Array

- Note: Leave 3-5mm of space between bottom of array and door sill.
- Using No. 8 self-tapping screws, drive through vinyl straight-bracket where needed mounting arrays to the jamb.
- Feed cable through cable cover and slide down to meet top of array. Drive one screw towards top of cover to secure (See Figure 2).

Option2:

- For installations where space on the strike jamb is restricted use retaining clips.
- Snap clips onto the array and slide in place. Use all four clips.

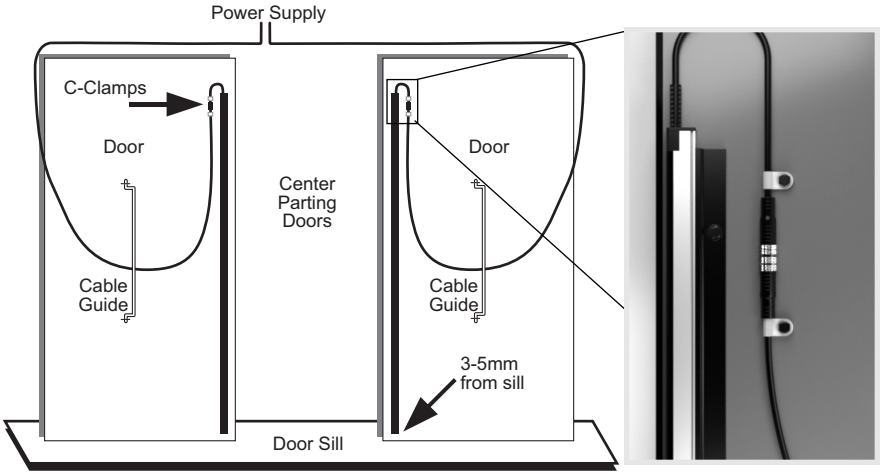


STEP 2: IG-R

Attach & Secure Cables

- Connect the two 5 meter cables to the arrays.
- Route the cables properly using appropriate mounting hardware.
- Install cable guides on door using No. 8 self-tapping screws provided, capturing cable as shown. Insure cable never becomes taught across entire travel of door.

Recommended Cable Clamp Location and Position



Important guidelines for securing cables:

- Mount cable with nylon C-clamps at top of array using No. 8 self-tapping screws provided.
- Use tie-wraps as needed.
- Secure opposite end of cable allowing enough slack so that cable is not taut when door is closed.
- Do not over-bend the cables or expose them to tension.
- Ensure that the cables are away from AC main power or sources of high voltage.
- Do not force, stretch, or squeeze the cables.
- Ensure that the cable is well fastened and routed.

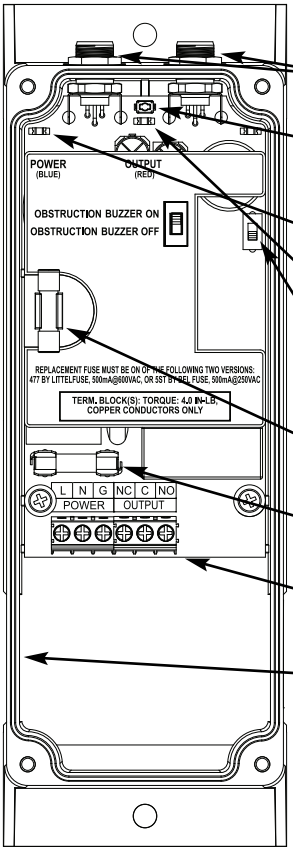
STEP 3: IG-R

Install Power Supply IG-R
with PSC-U

- Mount supply with No. 8 self-tapping screws.
- Mount greenfield fitting into hole provided on side of supply. Fitting not included and only needed for supply voltage greater than 42 volts.
- Pass wires through fitting into interior of case and connect to appropriate terminals.
- Connect array cables to external connectors. **NOTE:** Plugs are interchangeable.

Power:
N = AC Neutral or DC (plus or minus)
L = AC Line or DC (minus or plus)
G = Protective ground

Output:
COM = Relay Common Signal
NO = Normally Open Contact
NC = Normally Closed Contact



Plug in cables to arrays

Relay Test Button (for troubleshooting)
Press to test main relays with arrays disconnected.

Power Indicator (Blue LED)
Illuminates when power is on.

Output Indicator (Red LED)
Illuminates with no obstruction.

Obstruction Buzzer Switch
Turn buzzer on / off.

Spare Fuse
500mA 250V SB Fuse

Power Fuse
500mA 250V SB Fuse

Electrical Connections
See previous page for details

Additional knock out

STEP 4: IG-R

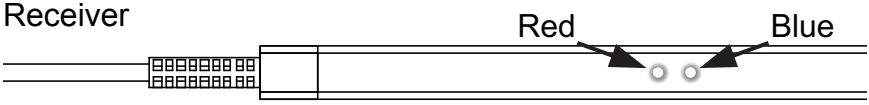
Power Up and Test

Turn on power after the installation is completed. The LED indicators should have the following behavior:

- The Blue LED on the universal power supply should be illuminated when powered.
- The Red LED on the universal power supply indicates the status of the array and the output relay. It should be illuminated when there is no obstruction.

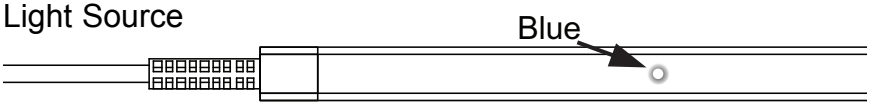
Health Monitor System (HMS)

Receiver



Edge	LED Color	LED ON	LED OFF	LED Flash	LED Wink *(LED blinks off)*
Rx	Red	Beams Detected System Aligned	No Power or Object Detected	Output Overload	N/A
Rx	Blue	Power OK	No Power	Excessive Interference	No Sync

Light Source



Edge	LED Color	LED ON	LED OFF	LED Flash	LED Wink *(LED blinks off)*
Tx	Blue	Power OK	No Power	Channel Failure	Reduced Range

IG-RN

Pages 9-14

Arrays

L-Bracket

Straight Bracket

Bracket Retainer

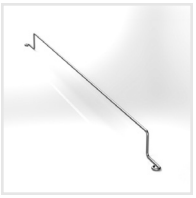
Cable Cover

No. 8 Self-Tapping Screw

Retaining Clip

5m (16.4') Cable

Nylon C-Clamp


Cable Guide

Tie-Wrap

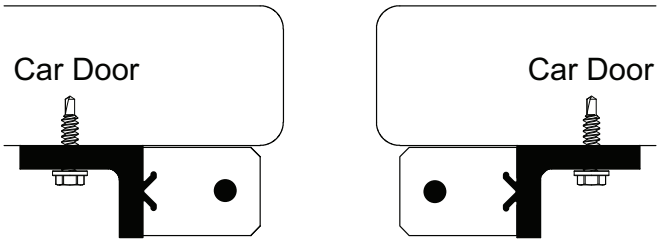
Power Supply PSC-URN

Parts List

Description	Qty
InvisiGuard Arrays	2
L-Bracket	4
Straight Bracket	2
Bracket Retainer	2
Cable Cover	1
No. 8 Self-Tapping Screws	25
Retaining Clip	4
5m (16.4') Cable	2
Nylon C-Clamp	8
Cable Guide	2
Tie-Wrap	8
Power Supply, PSC-URN	1

STEP 1: IG-RN

Mount The Arrays



Center Parting Doors

Note: Straight mounting brackets and retaining clips are not used.

- Slide two L-Brackets, one after the other, into dovetail on back at bottom of array. Do this for both arrays. *Note: Orientation of L-Bracket to door mounting position.*
- Fix bracket in place by sliding in bracket retainer and tightening locking screw (see Figure 1). Do not over-tighten. *Note: one retainer provided for each array.*

Mount Arrays

- Note: Leave 3-5mm of space between bottom of array and door sill.
- Using No. 8 self-tapping screws, drive through vinyl L-bracket where needed mounting arrays to door.

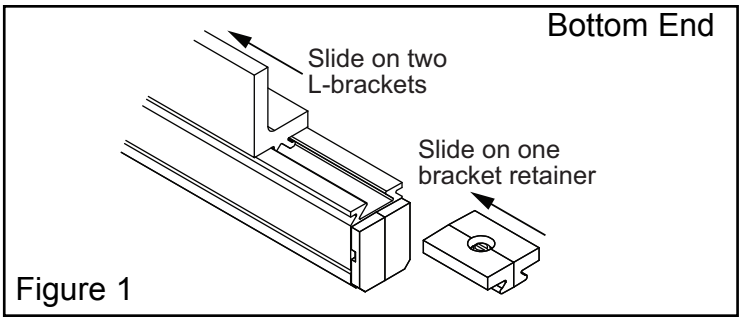


Figure 1

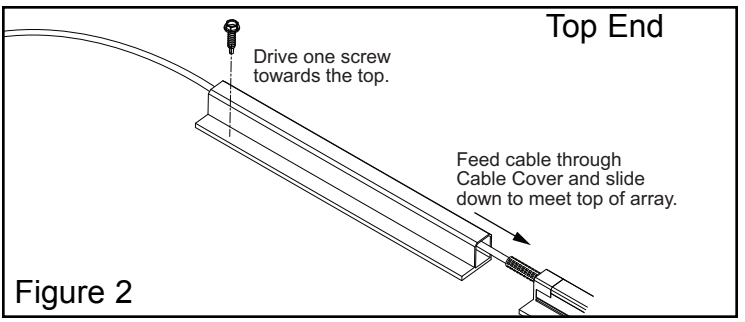
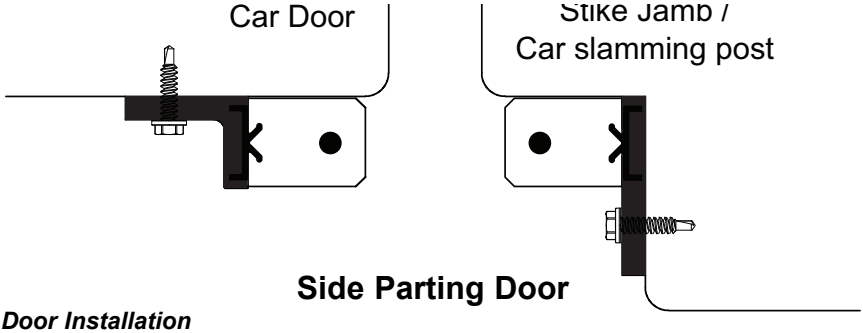


Figure 2



Side Parting Door

Door Installation

- Determine which direction the L-bracket should go depending on left or right door installation. *If needed, the orientation of the brackets can be easily swapped.*
- Slide two L-brackets into dovetail on back at bottom of array.
- Fix bracket in place by sliding in bracket retainer and tightening locking screw (see Figure 1). Do not over-tighten.

Mount First Array

- Note: Leave 3-5mm of space between bottom of array and door sill.
- Using No. 8 self-tapping screws, drive through vinyl L-bracket where needed mounting arrays to door.

Strike Jamb Installation

Option1:

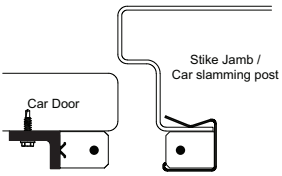
- Hold the other array briefly in place and determine which way the straight bracket should mount against the strike jamb. Insure good alignment between arrays.
- Slide two straight-brackets, one after the other, into dovetail on back at bottom of array.
- Fix bracket in place by sliding in bracket retainer and tightening locking screw (see Figure 1). Do not over-tighten.

Mount Second Array

- Note: Leave 3-5mm of space between bottom of array and door sill.
- Using No. 8 self-tapping screws, drive through vinyl straight-bracket where needed mounting arrays to the jamb.
- Feed cable through cable cover and slide down to meet top of array. Drive one screw towards top of cover to secure (See Figure 2).

Option2:

- For installations where space on the strike jamb is restricted use retaining clips.
- Snap clips onto the array and slide in place. Use all four clips.

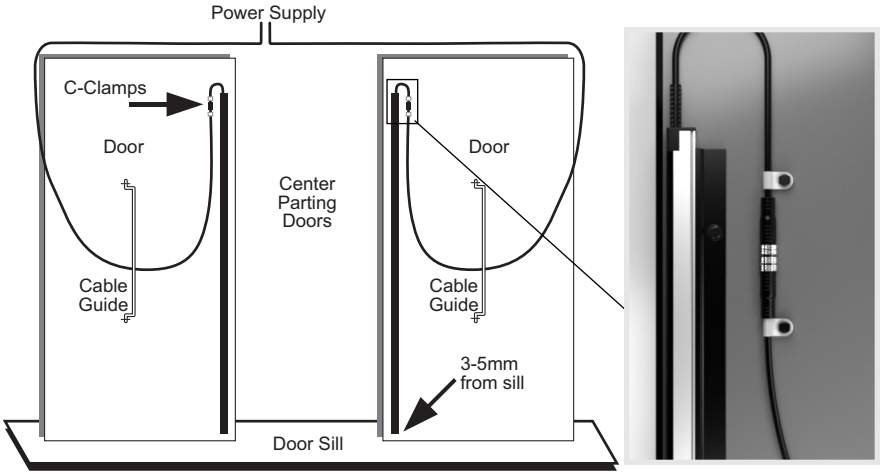


STEP 2: IG-RN

Attach & Secure Cables

- Connect the two 5 meter cables to the arrays.
- Route the cables properly using appropriate mounting hardware.
- Install cable guides on door using No. 8 self-tapping screws provided, capturing cable as shown. Insure cable never becomes taut across entire travel of door.

Recommended Cable Clamp Location and Position



Important guidelines for securing cables:

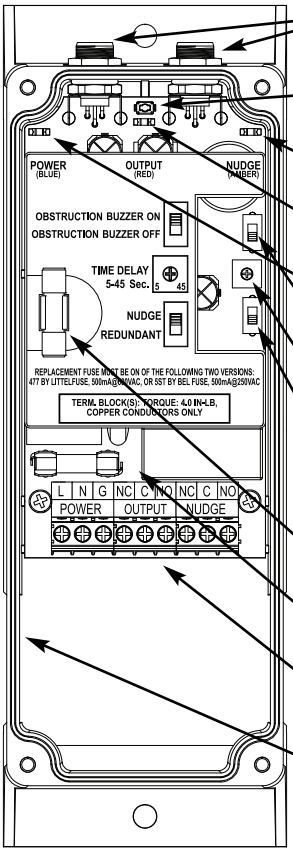
- Mount cable with nylon C-clamps at top of array using No. 8 self-tapping screws provided.
- Use tie-wraps as needed.
- Secure opposite end of cable allowing enough slack so that cable is not taut when door is closed.
- Do not over-bend the cables or expose them to tension.
- Ensure that the cables are away from AC main power or sources of high voltage.
- Do not force, stretch, or squeeze the cables.
- Ensure that the cable is well fastened and routed.

Install Power Supply IG-RN
with PSC-URN

- Mount supply with No. 8 self-tapping screws.
- Mount greenfield fitting into hole provided on side of supply. Fitting not included and only needed for supply voltage greater than 42 volts.
- Pass wires through fitting into interior of case and connect to appropriate terminals.
- Connect array cables to external connectors. **NOTE:** Plugs are interchangeable.

Power:
L = AC Line or DC (minus or plus)
N = AC Neutral or DC (plus or minus)
G = Protective ground

Output & Nudge:
NC = Normally Closed Contact
COM = Relay Common Signal
NO = Normally Open Contact



Plug in cables to arrays

Relay Test Button (for troubleshooting)
Press to test main relays with arrays disconnected.

Nudge Indicator(Amber LED)
Illuminateds when nudge timer expires.

Output Indicator (Red LED)
Illuminates with no obstruction.

Power Indicator (Blue LED)
Illuminates when power is on.

Nudge Buzzer Switch
Turn buzzer on / off.

Time Delay Adjust
Nudge timer range 4 to 45 seconds

Nudge / Redundant Switch
Select between Nudge and Redundant relay mode (follows input relay).

Spare Fuse
500mA 250V SB fuse

Power Fuse
500mA 250V SB fuse

Electrical Connections
See previous (see above for details)

Additional knock out

STEP 4: IG-RN

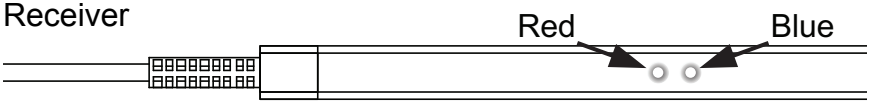
Power Up and Test

Turn on power after the installation is completed. The LED indicators should have the following behavior:

- The Blue LED on the universal power supply should be illuminated when powered.
- The Red LED on the universal power supply indicates the status of the array and the output relay. It should be illuminated when there is no obstruction.
- The Amber LED on the universal power supply indicates the status of the nudge relay. It illuminates when nudge timer expires.

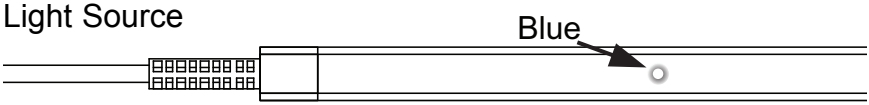
Health Monitor System (HMS)

Receiver



Edge	LED Color	LED ON	LED OFF	LED Flash	LED Wink *(LED blinks off)*
Rx	Red	Beams Detected System Aligned	No Power or Object Detected	Output Overload	N/A
Rx	Blue	Power OK	No Power	Excessive Interference	No Sync

Light Source



Edge	LED Color	LED ON	LED OFF	LED Flash	LED Wink *(LED blinks off)*
Tx	Blue	Power OK	No Power	Channel Failure	Reduced Range

IG-RDC

Pages 15-19

Arrays

L-Bracket

Straight Bracket

Bracket Retainer

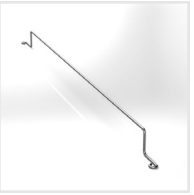
Cable Cover

No. 8 Self-Tapping Screw

Retaining Clip

5m (16.4') Cable

Nylon C-Clamp


Cable Guide

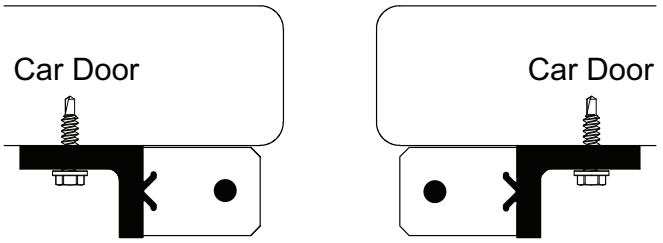
Tie-Wrap

Parts List

Description	Qty
InvisiGuard Arrays	2
L-Bracket	4
Straight Bracket	2
Bracket Retainer	2
Cable Cover	1
No. 8 Self-Tapping Screws	25
Retaining Clip	4
5m (16.4') Cable	2
Nylon Cable C-Clamp	8
Cable Guide	2
Tie-Wrap	8

STEP 1: IG-RDC

Mount The Arrays



Center Parting Doors

Note: Straight mounting brackets and retaining clips are not used.

- Slide two L-Brackets, one after the other, into dovetail on back at bottom of array. Do this for both arrays. *Note: Orientation of L-Bracket to door mounting position.*
- Fix bracket in place by sliding in bracket retainer and tightening locking screw (see Figure 1). Do not over-tighten. *Note: one retainer provided for each array.*

Mount Arrays

- Note: Leave 3-5mm of space between bottom of array and door sill.
- Using No. 8 self-tapping screws, drive through vinyl L-bracket where needed mounting arrays to door.

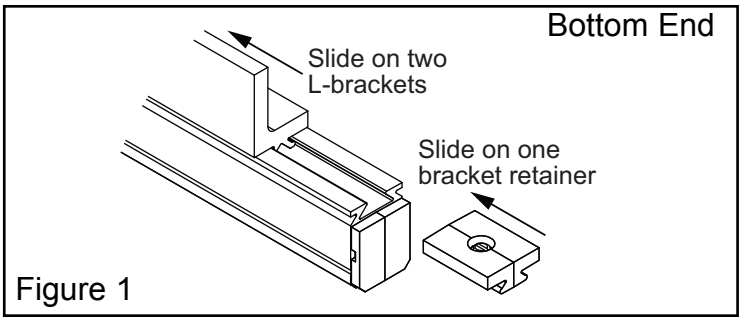


Figure 1

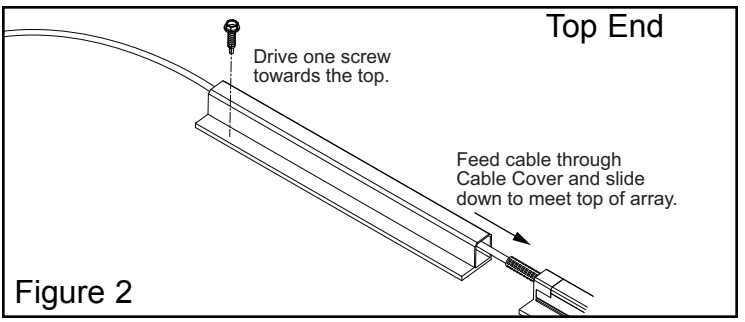
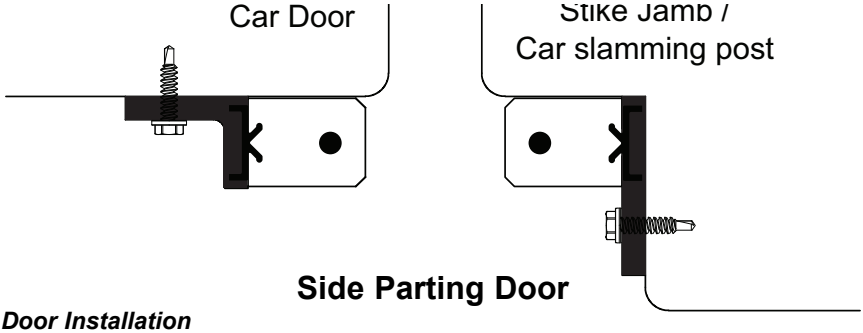


Figure 2



Side Parting Door

Door Installation

- Determine which direction the L-bracket should go depending on left or right door installation. *If needed, the orientation of the brackets can be easily swapped.*
- Slide two L-brackets into dovetail on back at bottom of array.
- Fix bracket in place by sliding in bracket retainer and tightening locking screw (see Figure 1). Do not over-tighten.

Mount First Array

- Note: Leave 3-5mm of space between bottom of array and door sill.
- Using No. 8 self-tapping screws, drive through vinyl L-bracket where needed mounting arrays to door.

Strike Jamb Installation

Option1:

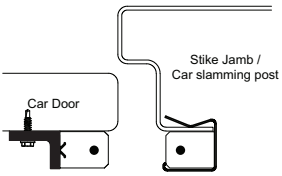
- Hold the other array briefly in place and determine which way the straight bracket should mount against the strike jamb. Insure good alignment between arrays.
- Slide two straight-brackets, one after the other, into dovetail on back at bottom of array.
- Fix bracket in place by sliding in bracket retainer and tightening locking screw (see Figure 1). Do not over-tighten.

Mount Second Array

- Note: Leave 3-5mm of space between bottom of array and door sill.
- Using No. 8 self-tapping screws, drive through vinyl straight-bracket where needed mounting arrays to the jamb.
- Feed cable through cable cover and slide down to meet top of array. Drive one screw towards top of cover to secure (See Figure 2).

Option2:

- For installations where space on the strike jamb is restricted use retaining clips.
- Snap clips onto the array and slide in place. Use all four clips.

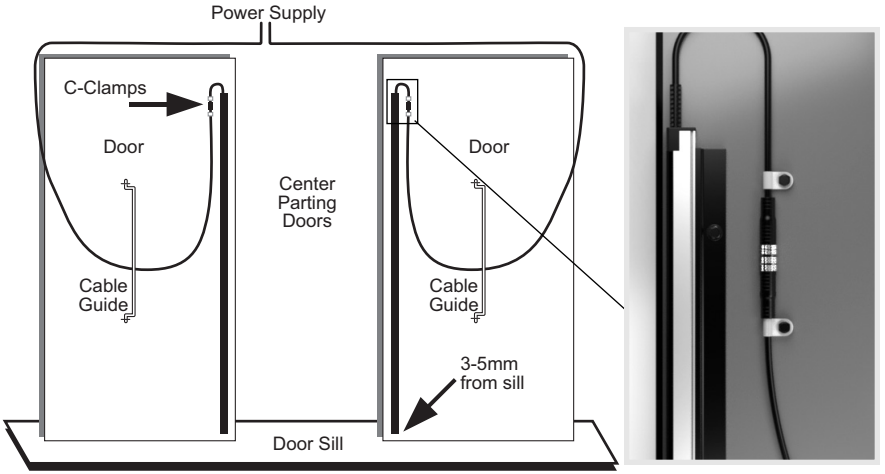


STEP 2: IG-RDC

Attach & Secure Cables

- Connect the two 5 meter cables to the arrays.
- Route the cables properly using appropriate mounting hardware.
- Install cable guides on door using No. 8 self-tapping screws provided, capturing cable as shown. Insure cable never becomes taught across entire travel of door.

Recommended Cable Clamp Location and Position

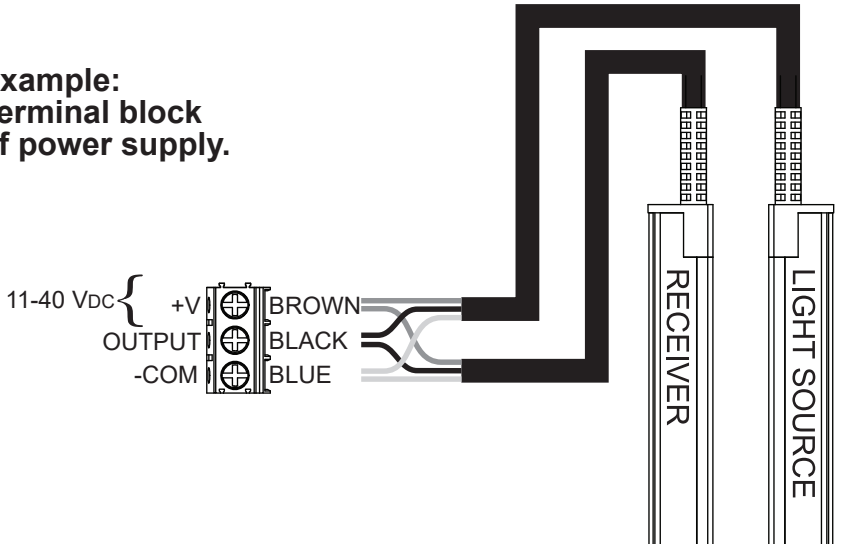


Important guidelines for securing cables:

- Mount cable with nylon C-clamps at top of array using No. 8 self-tapping screws provided.
- Use tie-wraps as needed.
- Secure opposite end of cable allowing enough slack so that cable is not taut when door is closed.
- Do not over-bend the cables or expose them to tension.
- Ensure that the cables are away from AC main power or sources of high voltage.
- Do not force, stretch, or squeeze the cables.
- Ensure that the cable is well fastened and routed.

Connect

Example:
Terminal block
of power supply.

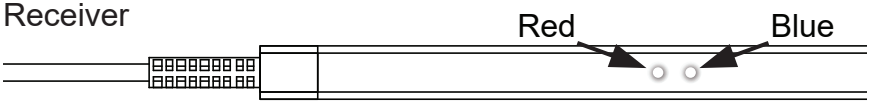


STEP 4: IG-RDC

Power up and test

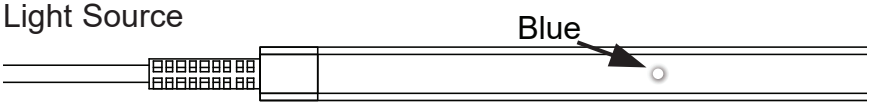
Health Monitor System (HMS)

Receiver



Edge	LED Color	LED ON	LED OFF	LED Flash	LED Wink *(LED blinks off)*
Rx	Red	Beams Detected System Aligned	No Power or Object Detected	Output Overload	N/A
Rx	Blue	Power OK	No Power	Excessive Interference	No Sync

Light Source



Edge	LED Color	LED ON	LED OFF	LED Flash	LED Wink *(LED blinks off)*
Tx	Blue	Power OK	No Power	Channel Failure	Reduced Range

Specifications

Optical
Operating range: . . . . . 0 to 3.5 m (0 to11.5 ft)
Protection height: . . . . . 1817mm (71.547 in)
Lowest beam: . . . . . 22mm (0.867 in)
Beam spacing: . . . . . 58mm (2.283 in)
Vertical displacement at 0mm: 12mm
Horizontal displacement at 0mm: 6mm
Horizontal displacement at 25mm: 15mm
Horizontal displacement at 50mm: 25mm
Horizontal displacement at 75mm: 37mm
Longitudinal angular
displacement at 0mm: . . . . . 25°
Transversal angular
displacement at 0mm: . . . . . 60°
No. of optical elements: 32
No. of beams
at 32 elements: . . . . . 154 criss-cross beams
Max. ambient light: . . . . . 100,000 Lux

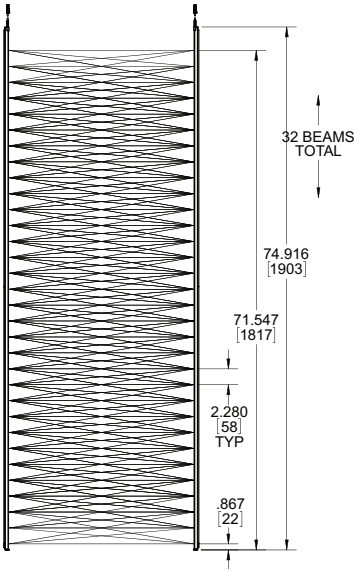
Mechanical
Dimensions
(w × h × l): . . . . .12mm x 15.85mm x 1903mm
Housing material: . . . . . Aluminum
Surface protection: . . . . .Anodized, natural color
Enclosure rating: IP65
Mounting holes required: . . . . . No less than 4
Operating temperature
range: . . . . . -20°C to +60°C

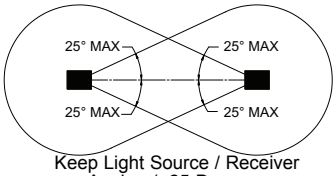
Electrical
Supply voltage: . . . . . 11 to 40 VDC
Typ. current consumption
at 24 VDC: 65mA
Output: . . . . . Push-Pull, short circuit protected
Output logic polarity: . . . . . High/Low selectable
Max. output load: 100ma
Typ. response time at 32 elements: . . . . .70 ms

General
Synchronization: . . . . . Optical
Cable length: 5m
Material: . . . . . PUR, AWG26
Edge connection M8 (3-Pin)
Highest and lowest
beam standard: EN-81-70: 5.2.4
EMC emission: . . . . . EN 12015:2014
EMC immunity: . . . . . EN 12016:2013
Vibration: . . . . . IEC 60068-2-6:2007
Shock: . . . . . IEC 60068-2-27:2008
Cable durability: . . . . . IEC 60227-2:2003
Composite temperature/humidity
cyclic test: . . . . . IEC 60068-2-28: 1974
IP rating: . . . . . IEC 60529: 2001
RoHS: 2011/65/EU
Certificates: . . . . . CE, CSA B44.7 ASME A17.5

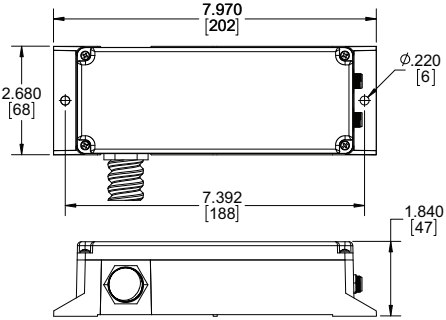
Power supply
Enclosure rating: IP65
Rated voltage: 20 to 265 Vac/Vdc, single phase, 50/60Hz
Fuse rating: 500ma
Output voltage: . . . . . 24 Vdc @100ma +- 10%
Contact Rating: . . . . . 10A/250Vac / 8A@28Vdc
Certificates: . . . . . CE, CSA B44.7 ASME A17.5
EMC emission/
EMC immunity: EN 12015:2014,EN 12016:2013
Vibration and shock: . . . . . IEC 60068-2-6:2007
. . . . . IEC 60068-2-27:2008
. . . . . IEC 60227-2:2003
Fire protection: . . . . . UL 94 5VA
Housing material: . . . .ABS case, PC clear cover
Operation Temp range: . . . . . -20°C to +60°C
Obstruction Buzzer: . . . . . Standard
Relay test button: . . . . . Standard
Nudge relay: . . . . . Optional

Dimensions





Keep Light Source / Receiver
Angle +/- 25 Degrees



1. Make sure you have connected the correct relay output for you application (i.e., NO vs. NC contact).
2. If power indicator (Blue LED) of universal power supply is off, verify if correct power is available at power terminals. If correct power is present, replace fuse with spare fuse provided. If power indicator remains off disconnect M8 cables that go to arrays and verify if power indicator is still off. If so, replace supply.
3. If power indicator (Blue LED) of universal power supply is on, verify if the power indicator (Blue LED) of light source and receiver are both on. If not, make sure cable connections between array and power supply are secure. If problem persists, replace supply.
4. If power indicator (Blue LED) on one of the arrays is off, swap cables to arrays. If the problem moves to other array replace affected cable. If it doesn't move to other array, replace affected array.
5. If power indicators (Blue LED) of the arrays are on but one is blinking or winking, consult Health Monitoring System (HMS) chart to determine problem.
6. If Light Source (TX) array power indicator (Blue LED) is flashing replace array.
7. If receiver (RX) array power indicator (Blue LED) is flashing or winking, make sure that:
   a. Cables are not routed near sources of electrical noise generated by a door drive or other device.
   b. Verify face of the receiver and light source are clean and unobstructed thoughtout entire travel of door. System is very tolerant of dust and dirt but best performance is achieved when the face is clean.
   c. The arrays are secure and aligned.
8. If receiver (RX) array power indicator (Blue LED) is still flashing or winking, swap the position the light source and receiver. If problem remains replace receiver.
9. If receiver (RX) array power indicator (Blue LED) is on solid and the doors close even with an obstruction, verify if receiver (RX) output (Red LED) is cycling on and off with the obstruction. The power supply output indicator (Red LED) should also be cycling with the receiver output (Red LED). If a short exists on the output wire the receiver (RX) array output Red LED will flash when output cycles. If this happens the fault can be in the array, array cable or power supply.

   Disconnect cable from receiver array. If output indicator (Red LED) still flashes when cycled, replace receiver array; otherwise replace cable or power supply.
10. If all indicator lights are normal and functioning as expected and the power supply relay is cycling when an obstruction is presented and then removed from arrays the problem is most likely in the wiring of the door operator. Note: There is a relay test button located in the power supply. See supply illustration. Disconnect array cables and press the button. This will cycle the output relay to help with trouble shooting door operator problems. If you purchased the IG-RN system, the supply comes with a redundant relay feature that allows the nudge relay to be used as a redundant main relay. This provides a second output relay circuit and can be used in cases when there is a problem with the main output relay.

C US

Certificate of Compliance

Certificate:	70059556	Master Contract:	266115
Project:	70059556	Date Issued:	2016-04-28

Issued to: **Tri-Tronics Company, Incorporated**
7705 Cheri Crt.
P.O. Box 25135
Tampa, Florida 33634-2419
USA
Attention: Scott Fritz

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.

C US
CSA B44.1/ASME-A17.5

Issued by:
Rowell Manipula
Rowell Manipula

PRODUCTS
CLASS - C241102 - ELEVATOR EQUIPMENT-Enclosed Elevator-and Escalator Electrical Equipment
CLASS - C241182 - ELEVATOR EQUIPMENT-Enclosed Elevator Electrical-Equipment-Certified to U.S. Standards

Certified To U.S. Standards

For details related to rating, size, configuration, etc. reference should be made to the CSA Certification Record or the descriptive report.
Light curtain control system for use with elevator doors, model PSC-UR, may be followed by suffix N. Rated as follows:
Input ratings: 20V-265V AC/DC, single phase, 50/60Hz,
Output contact ratings: 10A at 250V ac/8A at 28V dc (Main/Nudge), single phase, 50/60Hz
100mA at 24V dc (Detectors)
Detectors for use with elevator light curtain control system model, models RA-R, and LA-R, rated 100mA at 24Vdc.
Note: Connection cord with length exceeding 2 meters shall be protected in a raceway.

Certificate: 70059556 Master Contract: 266115
Project: 70059556 Date Issued: 2016-04-28

APPLICABLE REQUIREMENTS
CSA-B44.1/ASME-A17.5 - Elevator and Escalator Electrical Equipment
CSA C22.2 No. 107.1-01* - General Use Power Supplies
*Used as a guide

Supplement to Certificate of Compliance
Certificate: 70059556 Master Contract: 266115
The products listed, including the latest revision described below, are eligible to be marked in accordance with the referenced Certificate.

Product Certification History

Project 70059556
Date 2016-04-28
Description Original certification of Elevator door light curtain control system, model PSC-UR, and detectors models, RA-R and LA-R.

DECLARATION OF CONFORMITY

We, **Tri-Tronics Company, Inc.**
7705 Cheri Ct.
Tampa, Florida 33634-2419
United States

declare under our own responsibility that the products,

InvisiGuard Razor Elevator Door Control

Models:	**IG-R, IG-RN**	**Power Supply/Controller**
	RA-R, LA-R	**Elevator Door Receiver Array & Light Array**

to which this declaration relates is in conformity with the following standards or other normative documents:

EN 12015:2014
EN 12016:2013
IEC 60068-2-27:2008
IEC 60068-2-6:2007

Tampa, Florida 33634, USA

Scott D. Seehawer — 5/5/2016
Signature — Date

CE

Scott D. Seehawer, President
Typed Name and Title

Please read important notice.

TRI-TRONICS® elevator door control products are not designed for machine safety and are not to be used in industrial robotic areas or around machines that could pinch, grab, or cut a person or persons in close proximity. They are not designed for residential elevators in conjunction with scissor gates. They are designed solely for elevator door protection.

That protection is not 100%. In extreme rare conditions, doors can still close on obstacles that are present. Our device, as well as other door protection systems on the market, cannot provide absolute safety for elevator passengers passing through the doorway. Our system is not to be used as the final fail-safe device on the door mechanism. There must be, by code, other safety means to prevent passengers from being hurt by the elevator doors. Ultimate safety function has to be provided by a fail-safe force and kinetic energy limiter. These force situations can and should be detected by the elevator control and should take the elevator out of service.

Spare Parts

IG-C5M
5m Cable

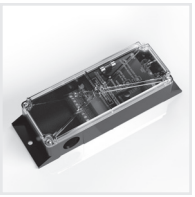
IG-C5MDC
DC 5m Cable

IG-RLA
InvisiGuard
Light Source Array
(w/mounting kit)

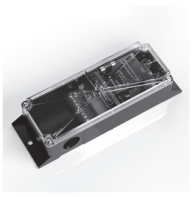
IG-RRA
InvisiGuard
Receiver Array
(w/mounting kit)

IG-LB
L-Bracket
Mounting Kit

IG-SB
Straight Bracket
Mounting Kit



PSC-UR
Power Supply
(w/mounting
screws)



PSC-URN
Power Supply
with Nudge
(w/mounting
screws)

For additional parts, products, and information please visit our website at: www.elevatoredge.com

TRI-TRONICS COMPANY, INC.
P.O. Box 25135, Tampa, FL 33622-5135
TEL: (813) 886-4000/TOLL FREE: (800) 237-0946
FAX: (813) 884-8818/TOLL FREE: (800) 375-8861
www.elevatoredge.com
E-MAIL: info@elevatoredge.com

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