

# Invisi-GUARD-2™

Thru-Beam Photo Eye

Uniquely Designed for the Door and Gate Industries

## Applications

- **Motorized Doors**
- **Motorized Gates**

The Invisi-Guard-2 thru beam photo optic system sends an invisible beam of light from a transmitting unit to a receiving unit. The light beam is intended to function as a protective line guarding a potentially hazardous zone. When the light beam is interrupted by an obstruction, a signal is sent to the motor controls to stop or reverse motion.

The new contemporary designed IG2 offers a variety of electrical and photo optic configurations available to suit an assortment of applications. The Invisi-Guard-2 is suitable for both indoor and outdoor installations.



Emitter & Receiver with Universal Adjustable Mounting Brackets

## OPTIONS

- Ergonomically designed protective boot cover
- Maximum range 30' or 50' (model dependent)
- Battery powered emitting units



Optional Protective Boot Covering

## FUNCTIONAL BENEFITS

- Universal design works with pre- and post-2010 operators
- Time saving installation
- Vertical or horizontal mounting
- Easy alignment with positioning indicators
- UL 325 recognized component for doors and gates
- NEMA 4 enclosure
- Impact resistant for rugged environments
- Easily replaceable batteries (no special order)
- Enhanced sunlight immunity
- Built-in strain relief

## SPECIFICATIONS

PHYSICAL	
Dimensions:	5" H x 2 3/4" L x 1 5/8" W
Weight	0.43 lbs (Em)
Emitter	0.49 lbs (Rx)
Receiver	
Enclosure Material:	Aluminum
Mounting Method:	Wall, floor, or post
Alignment Indicator:	Yes; visual indicator

MECHANICAL	
Detection Technology:	Infrared thru-beam
Operating Temp. Range:	-40°F to 185°F -40°C to +85°C
Enclosure Material:	Aluminum
Wave Length:	940 nm
Response Time:	<20 msec



Model: IG2

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## TECHNICAL SPECIFICATIONS

	<b>30' Ext.</b> EXTERNAL POWERED	<b>50' Ext.</b> EXTERNAL POWERED	<b>30' Bat.</b> BATTERY POWERED EMITTER	<b>50' Bat.</b> BATTERY POWERED EMITTER
<b>Max. Range</b>	30'	50'	30'	50'
<b>Response Time</b>	<20 msec	<20 msec	<20 msec	<20 msec
<b>Alignment Angle</b>	±10°	±10°	±10°	±10°
<b>Alignment Indicator</b>	Yes; visual indicator	Yes; visual indicator	Yes; visual indicator	Yes; visual indicator
<b>NON-MONITORED Power Supply Emitting (Em) Receiving (Rx)</b>	7-30 VAC 8-42 VDC (Em & Rx)	7-30 VAC 8-42 VDC (Em & Rx)	2-AA lithium 1.5V (Em) 7-30 VAC 8-42 VDC (Rx)	2-AA lithium 3.6V (Em) 7-30 VAC 8-42 VDC (Rx)
<b>NON-MONITORED Current Consumption Emitting (Em) Receiving (Rx) Beam Aligned Beam Mis-Aligned</b>	Em: -2mA Rx beam aligned: -10 mA Beam blocked: -25 mA	Em: -3 mA Rx beam aligned: -10 mA Beam blocked: -25 mA	Em: 350 µA Rx beam aligned: -10 mA Beam blocked: -25 mA	Em: 650 µA Rx beam aligned: -10 mA Beam blocked: -25 mA
<b>Expected Battery Life</b>	n/a	n/a	1 year	-9 months
<b>Low Battery Indicator</b>	n/a	n/a	Yes; visual indicator	Yes; visual indicator
<b>NON-MONITORED Relay Rating</b>	1 A @ 24 VDC	1 A @ 24 VDC	1 A @ 24 VDC	1 A @ 24 VDC
<b>Certification</b>	UL 325 recognized	UL 325 recognized	UL 325 recognized	UL 325 recognized
<b>MONITORED Power Supply Emitting (Em) Receiving (Rx)</b>	6-42 VDC with 300-800 Ω source resistor (Em & Rx)	6-42 VDC with 300-800 Ω source resistor (Em & Rx)	2-AA lithium 1.5V (Em) 6-42 VDC with 300-800 Ω source resistor (Rx)	2-AA lithium 3.6V (Em) 6-42 VDC with 300-800 Ω source resistor (Rx)
<b>MONITORED Current Consumption Emitting (Em) Receiving (Rx)</b>	Em & Rx Beam aligned: -12 mA Beam blocked: -8 mA	Em & Rx Beam aligned: -13 mA Beam blocked: -8 mA	Em: 350 µA Beam aligned: -10 mA Beam blocked: -6 mA	Em: 650 µA Beam aligned: -10 mA Beam blocked: -6 mA
<b>Indicators Emitting (Em) Receiving (Rx)</b>	Em: Green - Power Rx: Green - Power Red - Fault	Em: Green - Power Rx: Green - Power Red - Fault	Em: Green - Power Rx: Green - Power Red - Fault White - Low Battery	Em: Green - Power Rx: Green - Power Red - Fault White - Low Battery

## WARRANTY

Miller Edge, Inc. will replace within two years of shipment from factory, any Invisi-Guard-2 subject to normal use, which is found to have defective materials or workmanship, as determined solely by our factory representative. Replacements will be shipped to you freight collect. This warranty is void where evidence of misuse or abuse is present.



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