

# Prime-GUARD

Monitored Thru-Beam Photo Eye  
Uniquely Designed for the Door & Gate Industries

## Applications

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

The Prime-Guard monitored 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 barrier 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.

Prime-Guard offers a variety of electrical and photo optic configurations available to suit a wide range of applications. An optional battery-powered emitting unit saves installation time and eliminates the need to hard-wire. Prime Guard's rugged housing is suitable for both indoor and outdoor installations.



Emitter & Receiver with Universal Adjustable Mounting Brackets

## OPTIONS

- Flexible Pedestal Stand
- Maximum range 50' or 100'
- Battery powered or wired emitting units
- Two receiver options: RX-R (relay output) and RX-P (pulsed output)



## SPECIFICATIONS

PHYSICAL	
Dimensions:	5.1" H x 2.8" L x 1.8" W
Weight (Em):	12.2 oz. (Em)
Weight (Rx):	11.2 oz. (Rx)
Enclosure Material:	Aluminum
Mounting Method:	Wall, floor, post
Alignment Indicator:	Yes, front mounted green LED indicator

MECHANICAL	
Detection Technology:	Infrared thru-beam
Operating Temp. Range:	-40°F to 185°F -40°C to +85°C
Enclosure Material:	Aluminum
Wavelength:	850 nm
Response Time:	<18 msec

## FUNCTIONAL BENEFITS

- Several models designed to work with pre- and post-2010 door operators and pre- and post-2016 gate operators
- Spans distances up to 100' (model dependent)
- Vertical or horizontal mounting
- Easy, time-saving installation with alignment LED
- 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

PG\_Spec\_20160719



**Model: PG**

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## **TECHNICAL SPECIFICATIONS**

### **EMITTER PARAMETERS**

	<b>PG-EM-50</b>	<b>PG-EM-100</b>	<b>PG-EM-W</b>
<b>Maximum Range</b>	50'	100'	100'
<b>Battery Life</b>	4 years	2 years	N/A
<b>Power-On Indicator</b>	Flashing green LED	Flashing orange LED	Steady orange LED
<b>Power Supply</b>	2-AA lithium 1.5V	2-AA lithium 1.5V	7-30 VAC/10-42 VDC
<b>Current Consumption</b>	60 $\mu$ A	120 $\mu$ A	19 mA
<b>Alignment Angle</b>	$\pm 10^\circ$	$\pm 10^\circ$	$\pm 10^\circ$

### **RECEIVER PARAMETERS**

	<b>RELAY (N.C., N.O., 10K)</b>	<b>4-WIRE PULSED</b>	<b>2-WIRE PULSED</b>
<b>Power Supply</b>	7-30 VAC/10-42 VDC	7-30 VAC/10-42 VDC	Operator photo-eye input terminals
<b>Power-On Indicator</b>	Top solid green LED	Top solid blue LED	Top solid blue LED
<b>Emitter Low Battery Indicator</b>	Yes; flashing top green LED on receiver unit	Yes; flashing top blue LED on receiver unit	Yes; flashing top blue LED on receiver unit
<b>Mechanical Relay Rating</b>	1 A @ 24 VDC	N/A	N/A
<b>Opto Relay Rating</b>	N/A	120 mA @ 350 VDC	120 mA @ 350 VDC
<b>Current Consumption</b>	Aligned = 50 mA	Aligned = 20 mA	Aligned = 20 mA

## **WARRANTY**

Miller Edge, Inc. will replace within two years of shipment from factory, any Prime-Guard 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.

