

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 motor controls to stop and/or reverse motion.

Prime-Guard™ offers a variety of electrical and photo optic configurations available to suit a wide range of applications. A 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'
- 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)
- Extended battery life
- 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
- Enhanced sunlight immunity
- Built-in strain relief



Model: PG

Prime-GUARD™

Monitored Thru-Beam Photo Eye

TECHNICAL SPECIFICATIONS

EMITTER PARAMETERS

	PG-EM-50	PG-EM-100
Maximum Range	50'	100'
Battery Life	4 years	2 years
Power-On Indicator	Flashing green LED	Flashing orange LED
Power Supply	2-AA lithium 1.5V	2-AA lithium 1.5V
Current Consumption	60 μ A	120 μ A
Alignment Angle	$\pm 10^\circ$	$\pm 10^\circ$

RECEIVER PARAMETERS

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



PG_Spec_20160922

P.O. Box 159 • West Grove, PA 19390 • 610-869-4422 • Fax: 610-869-4423 • 800-220-3343
6809 South Harl Avenue, Suite A • Tempe, AZ 85283 • 480-755-3565 • Fax: 480-755-3558 • 800-887-3343
www.milleredge.com