

# Patriot-2

## Non-Contact Infrared Sensing Edge

### Applications

- **Rolling Steel Doors**

The Patriot Sensing Edge System is designed to provide a Non-Contact safe-guarding solution for motorized overhead doors.

The system includes a light emitting eye and a receiving eye which easily mount to and travel with the leading edge of the door. When the infrared beam becomes blocked by an obstruction, the operator is sent a signal to stop and reverse the motion of the door.

The Patriot system incorporates self-monitored circuitry so that a loss of power, short, or blocked IR signal will signal the motor to stop and/or reverse to an open position.



### OPTIONS:

- MIRF-Z2: 30 ft max. range; fail-safe
- MIRF-Z2-50: 50 ft max. range; fail-safe
- MIRM-Z2: 30 ft max range; monitored 
- MIRM-Z2-50: 50 ft max range; monitored 

### TECHNICAL SPECIFICATIONS:

Dimensions: PE Housings	2.75 in L x 2.00 in W x 1.25 in H (27.5 mm L x 51 mm W x 32 mm H)
Ratings	NEMA 4, Class 2, IP65
PE Housing Material	PVC
Detection Technology	Infrared Thru-beam
Wavelength	940nm
Response Time	<20msec
Alignment Angle	±10°
Alignment Indicator	LED
Operating Temperature	-40°F to 185°F -40°C to 85°C

### FUNCTIONAL BENEFITS

- Meets current UL325 standards for commercial door and gate operators\*
- Thru Beam technology minimizes false reflective signals
- Travels with the door
- Easy to Align
- No need to stock special sizes - works up to 30 feet wide or, up to 50 ft wide
- Convenient - Assemble and install in the field
- NEMA4 enclosure provides added protection from water spray, dirt and dust
- Self Monitoring circuitry
- On Board diagnostic assist with troubleshooting

\* Applies to select models only when used as a primary entrapment protection device with a UL325-2010 Listed CDO

## TECHNICAL SPECIFICATIONS:

**MIRF-Z2**  
Fail-Safe includes  
Controller  
30 Foot Range

**MIRF-Z2-50**  
Fail-Safe includes  
Controller  
50 Foot Range

**MIRM-Z2**  
  
Monitored  
30 Foot Range

**MIRM-Z2-50**  
  
Monitored  
50 Foot Range

Maximum Range	30 ft 9.1m	50ft 15.2 m	30 ft 9.1m	50ft 15.2 m
Power Supply	8-30 VAC / 12-42 VDC	8-30 VAC / 12-42 VDC	Monitored PE terminal	Monitored PE terminals
Relay Rating	10A@120VAC / 8A@30VDC	10A@120VAC / 8A@30VDC	---	---
Certification	---	---	UL325 - 2010, UL991	UL325 - 2010, UL991
Controller				
Dimensions	1.75 in. x 4.62 in. x 1.75 in. 4.4 cm x 11.7 cm x 4.4 cm	1.75 in. x 4.62 in. x 1.75 in. 4.4 cm x 11.7 cm x 4.4 cm	---	---
Rating	NEMA 4, Class 2, IP65	NEMA 4, Class 2, IP65	---	---
Current Consumption	Relay Energized 36mA@24VAC  Relay De-Energized 15mA@24VAC	Relay Energized 36mA@24VAC  Relay De-Energized 15mA@24VAC		

### WARRANTY

We will replace within two years of shipment from our factory, any Patriot 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.



U.S. Patent #6,920,717 & #6,651,385

MIRF-Z2\_Spec\_20141120

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