



REBEL™ Adjustable Height Thru-Beam Photo-Eye

IMPORTANT:

READ AND UNDERSTAND ALL INSTRUCTIONS BEFORE BEGINNING INSTALLATION.

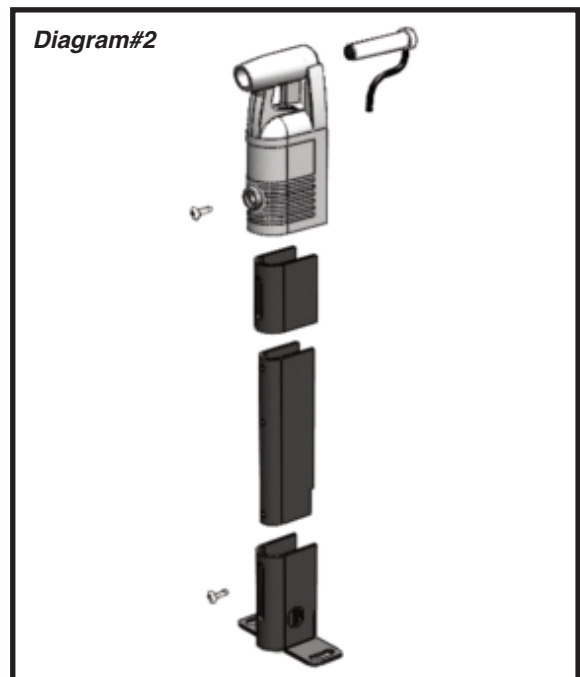
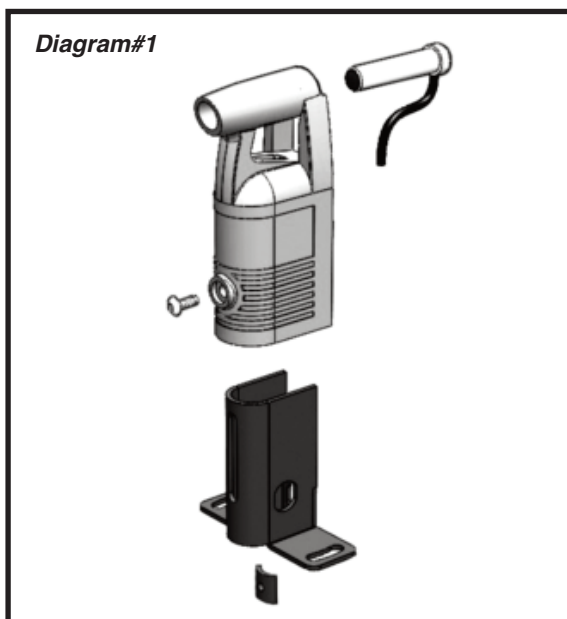
The **REBEL™** thru-beam photo-eye sensor is designed to transmit an infrared light beam from an emitter to a receiver and provide flexible mounting options for various applications. If the beam is interrupted by an object or person, signals are sent to the door operator to stop and/or reverse the door.

1- Parts List

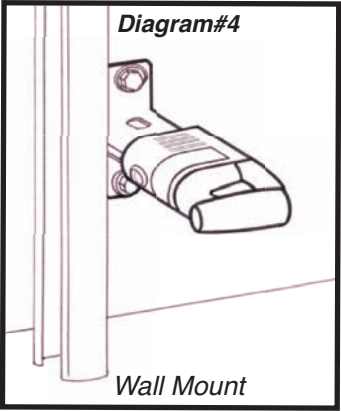
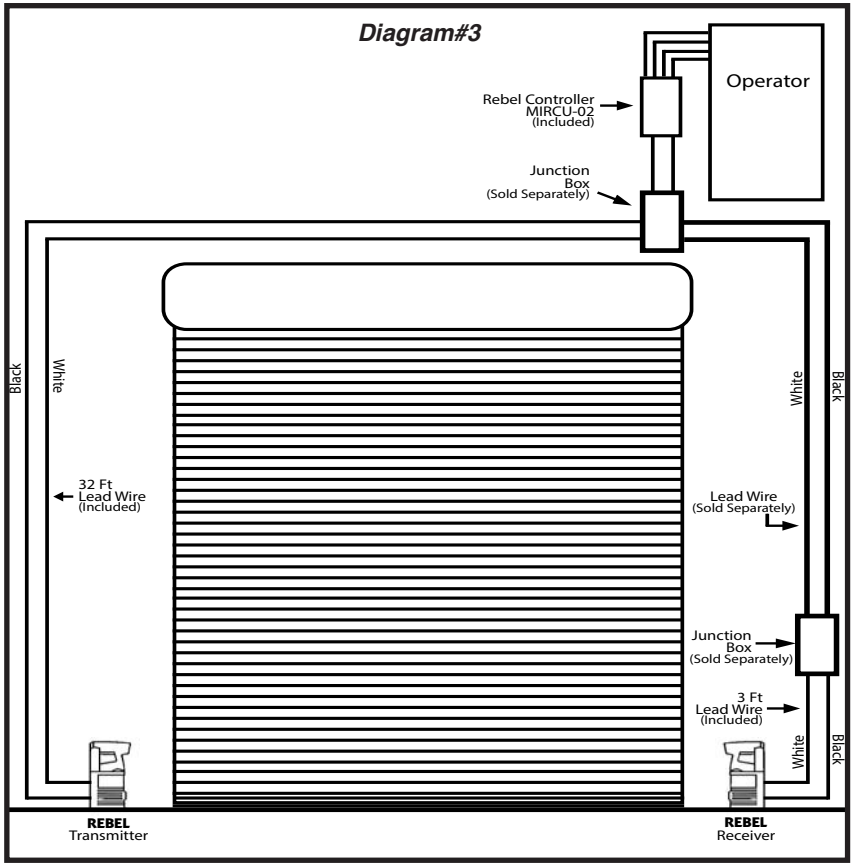
PART NUMBER	DESCRIPTION	PART NUMBER	DESCRIPTION
MIRF-S2	PE, FAIL-SAFE, REBEL™ KIT 30 FT	MIRF-S2-50	PE, FAIL-SAFE, REBEL™ KIT 50 FT
(1) MIRM-E2	MON, CABLE TX EYE, 30 FT EXT POWER	(1) MIRM-E2-50	MON, CABLE TX EYE, 50 FT EXT POWER
(1) MIRM-R2	MON, CABLE RX EYE, 3 FT EXT POWER	(1) MIRM-R2	MON, CABLE RX EYE, 3 FT EXT POWER
(1) MIR-S2-BK	PAIR OF REBEL™ HOUSING UNITS	(1) MIR-S2-BK	PAIR OF REBEL™ HOUSING UNITS
(1) MIRCU-02	MON CNTRL UNIT, INFRARED NEMA 4 BOX	(1) MIRCU-02	MON CNTRL UNIT, INFRARED NEMA 4 BOX
OPTIONAL:		OPTIONAL:	
MIR-S2-EK	REBEL™ MOUNT EXTENSION KIT	MIR-S2-EK	REBEL™ MOUNT EXTENSION KIT

2- Eye Installation

Standard Mounting Bracket and Mount Extension Kit Assembly Diagrams

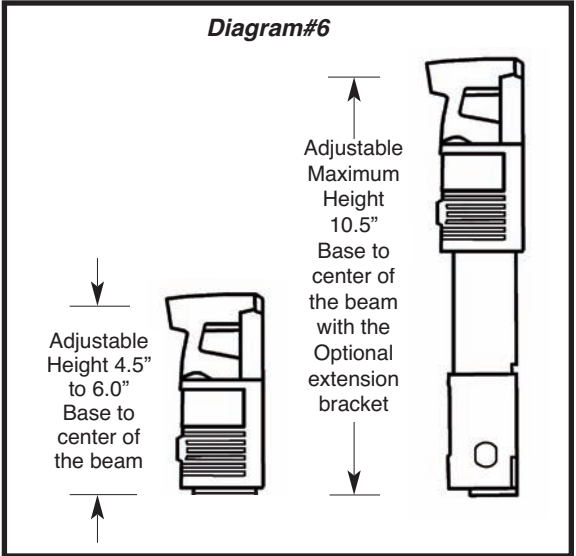


3- Mounting



MOUNTING INSTRUCTIONS

- 1- Select a stable mounting location with a clear line of sight to detect obstructions, where the light beam could not be obstructed by plants, leaves, etc.
- 2- Determine Wall OR Floor mounting direction. For ease of alignment, both transmitter and receiver should be mounted in the same manner facing one another.
- 3- Attach Mounting Brackets to both the EMITTER and RECEIVER and adjust to desired height.
- 4- Install as per wiring diagram in conjunction with all Federal, State and Local codes.
- 5- If you are installing the optional **REBEL™** Mount Extension Kit, reference the Assembly Diagram#2 shown on page (1).

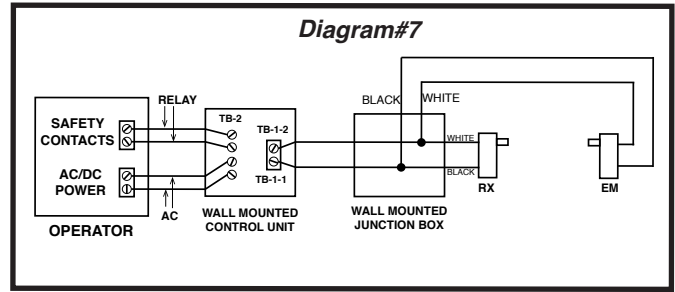


Optional **REBEL™** Mount Extension Kit
MIR-S2-EK

4- Wiring Connections

REBEL™ CONTROLLER WIRING

- 1- Connect the 2 wires from the junctions box to TB1 (terminal block 1), not polarized.
- 2- TB2 connects to your operator, the two terminals marked "AC" go to the 24 V terminals in your operator. The 2 terminals marked "RLY" go to your edge and low-voltage common terminals in your operator. None of these connections are polarity sensitive.



JUNCTION BOX WIRING

- 1- Wire nut both black photoeye wires together plus a length of wire that will reach into the **REBEL™** Controller Box.
- 2- Do the same for the white wires.
- 3- Each wire nut should have 3 wires: Two photoeye wires plus one wire to go to the **REBEL™** Controller.

5- Technical Specifications

Detection Technology	Infrared Thru-Beam
Infrared Wavelength	940nm
Infrared Beam Range	30/50 feet
Response Time	<20msec
Alignment Angle	+ 10
Operating Temperature	-40°F to +185°F (-40° C to 85° C)
Power Supply	8-30 VAC/12-42 VDC
Current Consumption	@24 VAC 36mA - Beam Aligned 15mA - Beam Blocked

Cable Length	Rx: 3 Ft. Em Ext: 32/52 Ft.
Mounting Method	Static
Enclosure Material	Aluminum with Epoxy Potting
Enclosure Size	Base & Boot: 5" x 3 1/2" x 2 1/2" Extension Bracket: 5 1/2" x 1/2" x 2"
Degree of Protection	NEMA 4
Certification	UL325 Pending
Rating	Class 2, NEMA 4, IPE 5

6- Trouble Shooting Tips

Emitter Indicators

LED COLOR	OK STATUS	FAULT	SOLUTION
GREEN	ON = NORMAL OPERATION	OFF = NO POWER	CHECK WIRING

Receiver Indicators

LED COLOR	OK STATUS	FAULT	SOLUTION
GREEN	ON = NORMAL OPERATION	OFF = NO POWER	CHECK ALIGNMENT CHECK WIRING
RED	OFF = NORMAL OPERATION	ON = OBSTRUCTION	REMOVE OBSTRUCTION

Control Unit Indicators

LED COLOR	OK STATUS	FAULT	SOLUTION
GREEN	FLASHING = NORMAL OPERATIONS	OFF = NO POWER OR OBSTRUCTION	CHECK WIRING
RED	OFF = NORMAL OPERATION	ON = OBSTRUCTION	REMOVE OBSTRUCTION CHECK WIRING

7- Warranty

We will replace within two years of shipment from our factory, any **REBEL™** subject to normal use which is found to have defective materials or workmanship, as determined solely by our factory representative. Replacements will be shipped via freight collect. This warranty is void where evidence of misuse or abuse is present.