

# GateArm TECHNOLOGIES

## RED and GREEN LED BARRIER ARM

Patented LED GateArm • Patent # 8,845,125 C1  
Patent # 9,157,200 • Patent # 9,279,435

[www.GateArmLight.com](http://www.GateArmLight.com) • 800-245-7961

### SAFETY INFORMATION

GateArm Technologies, Inc. is not responsible or liable for any install. It is the installer's responsibility to follow all state; local laws and operator install manuals when installing any additional equipment to an operator. We are only providing a method of installing.

### APPLICATION

The LED Barrier Arm is integrated with LED's which allow the barrier arm to be more visible to drivers especially at night.

### SPECIFICATIONS

**Voltage:** 12VDC      **Barrier Arm Length:** 12 foot or 17 foot  
**Power:** 4.8 W/m      **Operating Temperature Range:** -13°F (-25°C) to 140°F (60°C)

### CARTON INVENTORY

- Barrier Arm
- RGB Breakaway extension cable
- 12VDC 5AMP Power Supply
- RGB LED Light Strip (installed in arm)
- 3 AMP Reed Switch (only to be used with one LED strip) • Color Cam
- 5/16" x 3" Hex Head Bolts (2)
- 5/16" x 1" Washers (2)
- 5/16" Nylon Nuts (2)
- 1/2" Watertight Connector (1)

### ACCESSORIES

CW	Counter weight and hardware required for 17 foot LED barrier arm
RGB12	12 foot LED barrier arm & 3 meter RGB LED Light Strip with install kit
RGB17	17 foot LED barrier arm & 4 meter RGB LED Light Strip with install kit
RGB12A	12 foot LED barrier arm & 3 meter RGB LED Light Strip without install kit
RGB17A	17 foot LED barrier arm & 4 meter RGB LED Light Strip without install kit
RGB LED INSTALL KIT	Bolts 3" (2), nylon nuts (2), washers (2), 1/2" watertight connector, 48" RGB extension cable for breakaway connector (1), 12VDC Power Supply, 3 AMP Reed Switch, Color Cam
RGB3M	Replacement 3 Meter RGB LED Light Strip
RGB4M	Replacement 4 Meter RGB LED Light Strip
RGB LED "Y" CABLE	(Optional) If you are installing two LED light strips. (Reed switch can only be used with one RGB LED Strip)

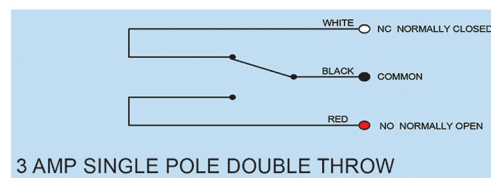
### SIX MONTHS LIMITED WARRANTY

GateArm Technologies, Inc. warrants to the first consumer from the date of manufacture (DOM) marked on these products, (power supply, led and reed switch ) that they will be free from defect and or workmanship for a period of 6 months. Above returned items modified or that look changed, cut, abused, vandalized or installed wrong will NOT be covered under warranty. Products must be returned at customers expense and will be evaluated and looked at in their shipped and received form condition. (gate arms are hit all the time by vehicles so the above conditions must be met to receive a new product under warranty) GateArm Technologies gives no warranty to any breakaway extension cable or aluminum gate arm. These cables are very inexpensive and were built to breakaway when hit by a vehicle but do take a lot of abuse.

### INSTALLATION & WIRING for RGB Red and Green LED Arm Only:

**Disconnect ALL power and batteries before installing and wiring the barrier arm. ALWAYS use the provided breakaway extension cable. NEVER connect the power supply directly to the LED Strip.**

**IMPORTANT:** THE 3 AMP REED SWITCH IS ONLY MADE TO POWER A MAXIMUM LENGTH OF (1) 4 METER LED STRIP. WARRANTY WILL BE VOIDED IF TWO LED STRIPS ARE CONNECTED TOGETHER WITH THE OPTIONAL (Y) CONNECTOR WITH THE RGB RED AND GREEN LED'S. AN OPTIONAL ALTRONIX RB5 OR EQUIVALENT RELAY MODULE IS REQUIRED FOR THE EXTRA AMPERAGE DRAW.



**(A) RGB REED SWITCH** 3AMP Reed switch only to be used with one LED strip with a maximum length of 4 meters.

WHITE - Normally closed (Red LED Light)

RED - Normally open (Green LED Light)

BLACK - Common (Connected to + positive wire of power supply)

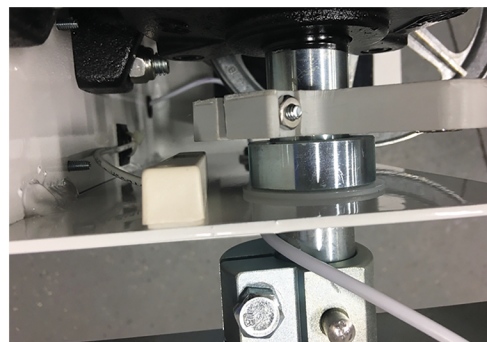
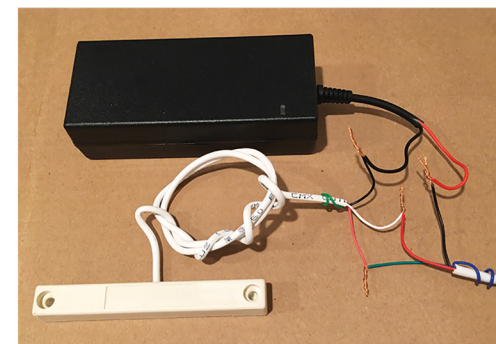
**(B) RGB WIRING DIAGRAM** Follow all steps on the reverse side of this manual on how to mount the watertight connector and power supply. Route the cut end of the RGB extension cable through the watertight connector into the operator where the power supply, reed switch and LED cables come together. Start with the reed switch for an easy (4) wire install. Here is an easy to use diagram on how to wire everything.

**Reed black wire goes to the black wire of the power supply.**

**Red power supply wire goes to the black wire of the LED cable.**

**Reed white wire goes to the red wire of the LED cable.**

**Reed red wire goes to the green wire of the LED cable.**



**(C) RGB COLOR CAM INSTALL** Install the color cam on the arm bracket side of the gearbox with the magnet facing the arm bracket. Align the reed switch in the vertical position on the side wall behind and above the belt pulley. Be sure to use zip ties to secure wire from hitting the pulley or belt. Route the wire through the predrilled small hole in the chassis to the other side of the chassis wall where the power supply, breakaway cable and reed switch wires will meet together. When the arm is in the up position and everything is powered up, move the color cam to the position where the arm turns green then a little bit more. The arm was made only to turn green when in the full upright position and red anytime the arm is in motion. The cam magnet should be on the reed switch when in the up position and move away from the reed switch when going to the down position.