VisiLight+™

LED Lighted Sensing Edge for Barrier Arms

MODEL: LED-BRM-K12

WARNING

Read and understand all instructions before beginning installation. Disconnect power to motor and test upon completion. **VisiLight+ with sensing edge (LED-BRM-K12)** must be installed by qualified personnel to ensure the requirements herein have been met. Keep these instructions with the installation documentation. Always comply with local and national electrical code specifications when wiring accessories to motor controls.

Enhance the safety and visibility of barrier arm gates with **VisiLight+ with sensing edge (LED-BRM-K12)**. Designed for superior performance, this innovative product combines the reliable protection of a pressure-sensitive sensing edge with the added benefit of a high visibility LED light strip. The **sensing edge** detects obstructions during barrier arm operation, ensuring that arms stop and reverse when contact is made, reducing damage and injury. Meanwhile, the integrated energy-efficient **LED light strip** illuminates the gate's path, adding an extra layer of safety for equipment and pedestrians. This all-in-one solution is ideal where safety and visibility are paramount. **Please note: LED-BRM-K12** is compatible with **DoorKing Parking Gates with straight Aluminum Octagonal Arms.**

CONTENTS

- (3) 4-ft. Channel
- (1) 12-ft. Sensing edge, non-monitored
- (1) 12-ft. LED light strip
- (2) End pivot clamps
- (2) #10 x 5/8" screws

REQUIRED

- #2 Phillips screwdriver
- Cable wraps

SUGGESTED

- Soapy water or other water-soluble lubricant
- Voltmeter

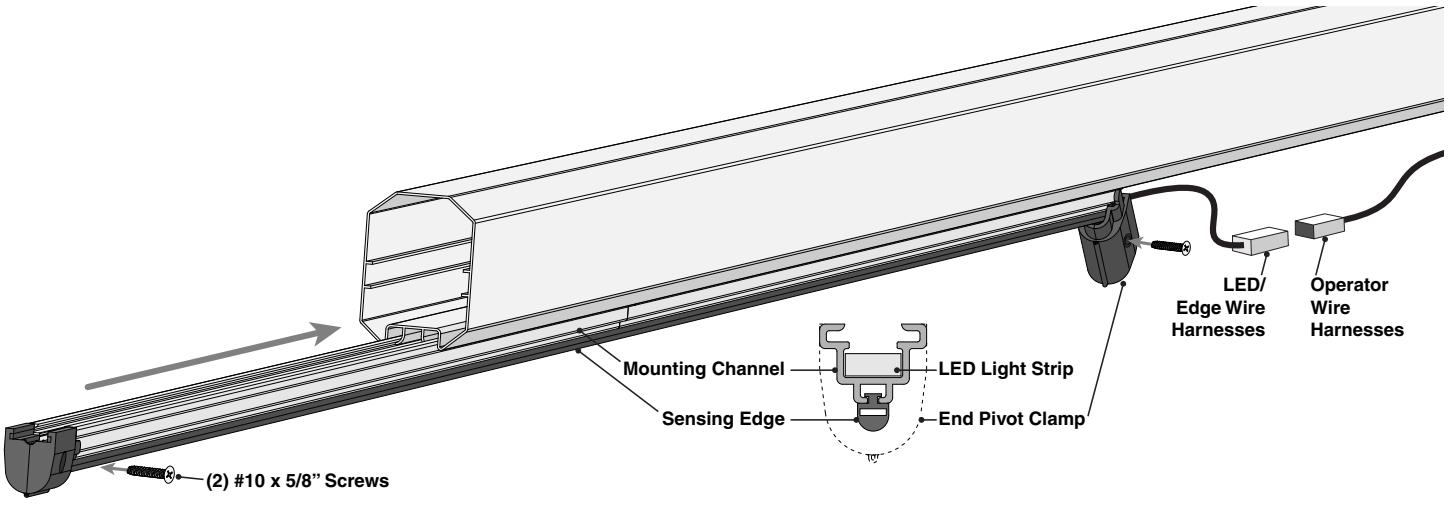

IMAGE 1: Barrier Arm Installation

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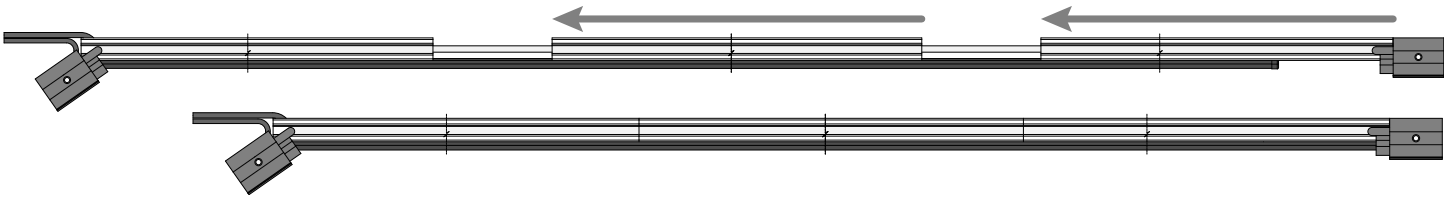

IMAGE 2: Closing the Gaps Between the Channel Sections

I. **SETUP**

1. Disconnect power to the operator.
2. Unpack **LED-BRM-K12** and lay it out straight on a flat surface. The sensing edge and LED strip are pre-assembled at the factory.
3. Close the gaps between the three channel sections by sliding the mounting channel sections toward the wired end of the assembly. **To avoid damage, do not pull on the wiring. IMAGE 2**
   - **Optional:** To facilitate smoother sliding, apply soapy water or another water-soluble lubricant to the channel and sensing edge.

II. **INSTALLATION**

1. Remove the end cap from the barrier arm per the barrier arm installation manual.
2. Starting with the wired end pointing towards the barrier gate motor, slide the sensing edge, LED strip, and mounting channel assembly onto the bottom of the barrier arm until it is fully inserted. **IMAGE 1**
   - **Optional:** To facilitate smoother sliding, apply soapy water or another water-soluble lubricant to the channel and sensing edge.
3. Rotate the end pivot clamps into position against the arm and tighten screws until snug to secure into place. **To avoid damage, do not overtighten the screws. IMAGE 3**
4. Reinstall the barrier arm end cap onto the barrier arm per the barrier arm installation manual.
5. Plug the sensing edge and LED wire harness into the operator's wire harness per the barrier arm installation manual.
6. Secure the wiring to the arm using cable wraps.

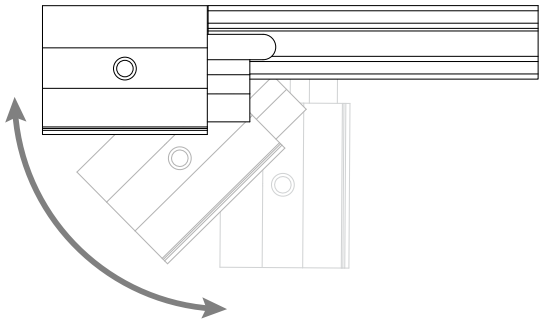

IMAGE 3: End Pivot Clamp

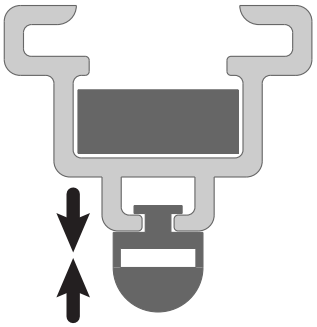

IMAGE 4: Press Sensing Edge to Test

III. **TEST**

1. Restore power to the operator.
2. Run the operator open and closed to observe the proper function of the LED lighting sequence. **TABLE 1**
3. When the arm is moving in the downward direction, squeeze the sensing edge. When properly connected, the operator will stop and reverse to the fully open position. **IMAGE 4**

TABLE 1: LED Light Strip

Color	Indication
Green	When fully open (not in motion)
Red	When opening, closing, or closed
Note: LED lights are illuminated at all times.	

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IV. TROUBLESHOOTING

Issue	Solution
LED light strip does not turn on.	• Verify all connections. • Use a voltmeter to check the voltage on the operator's power supply.
Sensing edge does not reverse the barrier arm.	• Verify the wired end plug of the sensing edge is securely seated. If it's loose, press it firmly into place.

V. TECH SUPPORT

For additional assistance, contact Miller Edge Tech Support: 800-220-3343

VI. GENERAL SPECIFICATIONS

Physical	
Color	LED lights: Red/green
Length	12-ft.
Weight	2.10 lbs.
Materials	Sensing edge and channel: Extruded PVC
Degree of Protection	Sesning edge: IP67; LED strip: Waterproof IP68/submersible
Electrical	
Electrical Maximum	12 V AC/DC, 1 amp
Electrical Configuration	2-wire non-monitored
Lead Wire	2-ft. plug-in wire harness
Performance	
Sensitivity	Nominal 6-11 lbf
Operating Temperature	-30°F to +155°F (-34°C to +68°C)
Sensing Edge Contact Element	Conductive polymer
LED Lights	60 LEDs per meter, 15-16 lumens per LED chip, Beam-angle 120°, UV protected sheath

VII. MAINTENANCE

It is strongly recommended that users test sensing edges at least once per month. Check the sensing edge for cuts, loss of sensitivity, or water damage. Also check for signs of damage to cables or connection points. Compress the sensing edge 2-inches from both ends and in the center and observe that it sends an electric signal to the controls. Refer to your operator manual for detailed instructions about motor connections.

VIII. REPLACEMENT

To replace your Miller Edge sensing edge and LED light strip, contact your sales representative. Attempting to repair your Miller Edge sensing edge and LED light strip is not recommended and will void the manufacturer warranty.

IX. WARRANTY

LED-BRM-K10 carries a **1-year warranty** from date of shipment from Miller Edge for credit or replacement. This warranty applies to normal use, which is found to have defective materials or workmanship, as determined solely by an authorized factory representative. This warranty is void where evidence of misuse or abuse is present. This warranty covers repair or replacement of the purchased product only; product installation/labor charges are not covered. Miller Edge manufactures its products to meet stringent specifications and cannot assume responsibility for those consequences arising from improper installation or misuse. Installation instructions and testing procedures provided by Miller Edge must be followed for proper operation and maintenance.