LiftMaster®

BEST PRACTICES FOR INSTALLING AND ALIGNING PHOTOELECTRIC SENSORS
(MODELS LMRRU AND LMTBU)

⚠ WARNING

The hood MUST be installed on the sensor BEFORE mounting.

This addendum will show best practices for installing and aligning the retro-reflective (LMRRU) and through beam (LMTBU) photoelectric sensors. The intensity of the emitter beam is highest toward the center and weakest toward the outer edge. Centering the alignment in the "sweet spot" reduces nuisance interruptions caused by environmental factors.

- There MUST be a clear line of site from the emitter to the reflector or receiver.
- Mount the bottom edge of sensors no higher than 24.5" (62.2 cm) above ground level and with the edge of the sensor and reflector no farther than 3.5" (9 cm) from the vertical plane of the gate.
- Do NOT mount the brackets to surfaces that vibrate or are unstable.
- Do NOT permanently weld or screw brackets into position until AFTER alignment is complete.

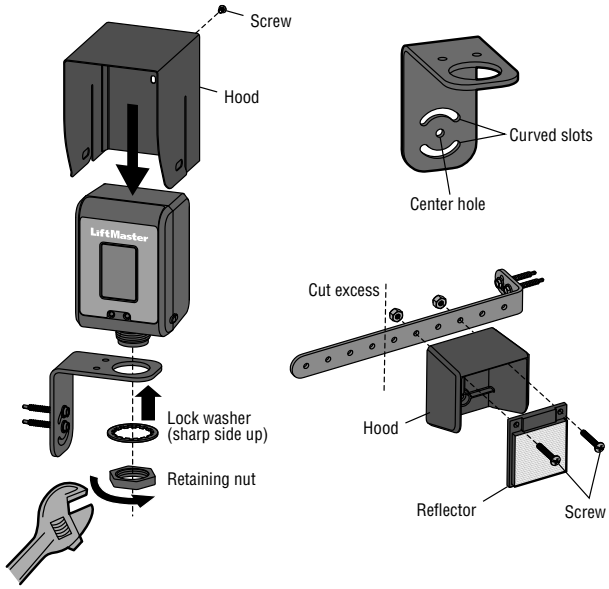
RETRO-REFLECTIVE SENSOR - LMRRU

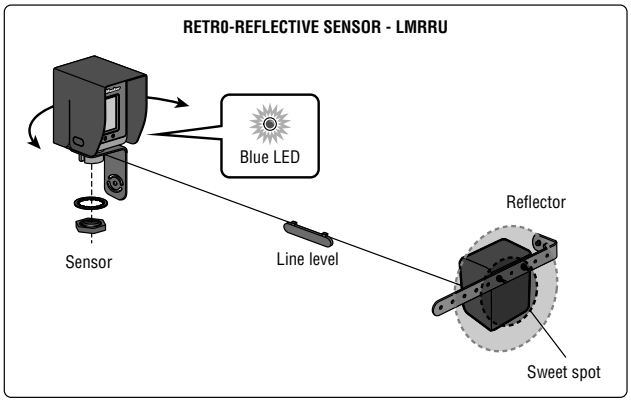
1. Attach the sensor bracket with the screws provided. Tighten the screw in the center hole but leave the screw in the curved slot loose.
2. Level the bracket with a bubble level.
3. Tighten the screw in the curved slot to secure the bracket.
4. Use a line level to locate the height for the reflector bracket. Mark the height.
5. Attach the reflector bracket just above the mark with the hardware provided.
6. With the gate closed measure 3.5" (9 cm) from gate to determine which holes to use to attach the reflector.
7. Attach the reflector and hood to the bracket with the hardware provided.
8. Assemble the sensor with hood to the bracket using the hardware provided:
   a. Place the sharp side of the lock washer towards the bracket.
   b. Loosely hand tighten the retaining nut.
9. Wire the sensor to the gate operator and make sure the operator is powered. *See the manual for wiring instructions.* The blue LED will light to indicate alignment.
10. Turn the sensor to the left until the red LED lights, indicating misalignment. Turn the sensor to the right until the red LED lights. Align the sensor in the middle until the blue LED lights. This is the "sweet spot" for optimal performance.
11. Hand tighten the retaining nut and then use an adjustable wrench to turn an additional 1/2 turn. Do NOT over-tighten.
12. You may cut off the unused part of the reflector bracket.
13. Secure conduit to the sensor using watertight fittings (not included). Make sure to connect the conduit to the inner threads of the sensor.

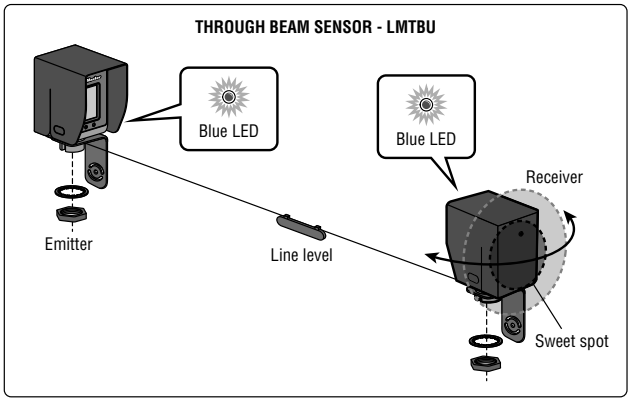
THROUGH BEAM SENSORS - LMTBU

1. Attach the EMITTER bracket with the screws provided. Tighten the screw in the center hole but leave the screw in the curved slot loose.
2. Level the bracket with a bubble level.
3. Tighten the screw in the curved slot to secure the bracket.
4. Clamp the RECEIVER bracket at the approximate mounting location.
5. Tie a line level between the brackets and adjust the height of the RECEIVER bracket until it is level with the EMITTER bracket.
6. Attach the RECEIVER bracket with screws, level the bracket, and tighten the screws.
7. Assemble the EMITTER with hood to the bracket using the hardware provided:
   a. Place the sharp side of the lock washer towards the bracket.
   b. Hand tighten the nut first and then use an adjustable wrench to turn an additional 1/2 turn. Do NOT over-tighten.
8. Wire the EMITTER to the gate operator and make sure the operator is powered. *See the manual for wiring instructions.* The blue LED will light to indicate power.
9. Assemble the RECEIVER with hood to the bracket. Loosely hand tighten the nut. Wire to the operator. The blue LED will light to indicate alignment.
10. Turn the RECEIVER to left until the red LED lights, indicating misalignment. Turn the RECEIVER to the right until the red LED lights. Align the RECEIVER in the middle until the blue LED lights. This is the "sweet spot" for optimal performance.
11. Hand tighten the nut on the sensor and then use an adjustable wrench to turn an additional 1/2 turn. Do NOT over-tighten.
12. Secure conduit to the sensor using watertight fittings (not included). Make sure to connect the conduit to the inner threads of the sensor.

It is strongly recommended that you test the gate operator to ensure that vibrations and gate movement do not cause changes in alignment BEFORE welding or making any permanent connections.







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