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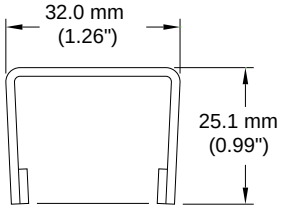
# LPSS Series Snap-On Lens Shields

For use with EZ-SCREEN® LP Emitters and Receivers



- Provides impact protection for EZ-SCREEN LP emitters and receivers
- Clear PETG co-polyester lens shields snap into place; need no foam gasket for attachment
- Can be removed and reinstalled easily (modification required for use with side brackets)
- Reduces sensing range by approximately 10% per shield (20% per pair)

## Models

| Lens Shield Dimensions — Cross Section | Lens Shield Model | Fits Emitter/Receiver Models | Lens Shield Overall Length |
|---|---|---|---|
|  | **LPSS-270** | **SLP..-270** | 270 mm |
| | **LPSS-410** | **SLP..-410** | 410 mm |
| | **LPSS-550** | **SLP..-550** | 550 mm |
| | **LPSS-690** | **SLP..-690** | 690 mm |
| | **LPSS-830** | **SLP..-830** | 830 mm |
| | **LPSS-970** | **SLP..-970** | 970 mm |
| | **LPSS-1100** | **SLP..-1100** | 1100 mm |
| | **LPSS-1250** | **SLP..-1250** | 1250 mm |
| | **LPSS-1390** | **SLP..-1390** | 1390mm |
| | **LPSS-1530** | **SLP..-1530** | 1530 mm |
| | **LPSS-1670** | **SLP..-1670** | 1670 mm |
| | **LPSS-1810** | **SLP..-1810** | 1810 mm |

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ПРОМЭЛЕКТРОНИКА/ sales@prom-elec.com

# Installation

**⚠ WARNING . . . Avoid Installation Near Reflective Surfaces**

Avoid locating the defined area near a reflective surface; it could reflect sensing beam(s) around an object or person within the defined area, and prevent its detection by the EZ-SCREEN System. Perform the trip test, as described in the EZ-SCREEN Instruction Manual, to detect such reflection(s) and the resultant optical short circuit.

**Failure to prevent reflection problems will result in incomplete guarding and could result in serious bodily injury or death.**

The LPSS series lens shield can be installed either by sliding it over the emitter/receiver housing or by snapping it into place. *Sliding it on must be done prior to installing the sensors;* snapping it into place can be done after sensor installation. *If side brackets are used,* notches must be cut into the sides of the shield, before snapping it into place. Each shield is a bit longer than the sensor; the shield will overlap onto the end of the bracket plate.

1. Remove the shield's protective film. ( ***Take care; the shield's cut edges may be sharp.*** )
2. If the end-cap bracket is already installed on the sensor housing, the shield can not be slid onto the housing; snap it on.
   - **To slide the shield onto the housing:** Carefully slide the shield onto the housing from either end, with the inside face of the shield against the sensor's front window, until the edge of the shield touches the other end bracket.
   - **To snap the shield onto the housing:** Holding the end of the shield to be located at the cabled end of the sensor, spread the sides of the shield apart. Butt the edge of the shield up to the edge of the end bracket and ease the sides of the shield around the housing, until it snaps in place. From that end, gradually press the rest of the shield into place.
3. Perform the trip test with the lens shield in place, before using the system.

## Maintenance

To prevent loss of excess gain, clean the shields when they become dirty. Remove dirt and/or oil from the front face of the shield using a mild detergent or window cleaner and a soft cloth. Avoid industrial cleaning agents or cleaning agents containing alcohol, as they may damage the co-polyester shield material.

**Replace the shield** when it becomes pitted or scratched, or excess gain will be decreased.

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Warranty: Banner Engineering Corp. will repair or replace, free of charge, any product of its manufacture found to be defective at the time it is returned to the factory during the warranty period. This warranty does not cover damage or liability for the improper application of Banner products. This warranty is in lieu of any other warranty either expressed or implied.