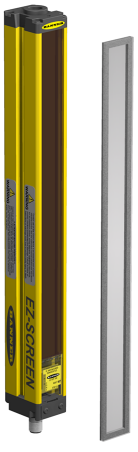
EZ-SCREEN Type 2 Diffuse Lens Shields

Datasheet



- 1.5 mm (0.06") diffuse acrylic
- Neoprene foam gasket
- Easy to install
- Available in sizes for all EZ-SCREEN Type 2 emitter and receiver models

Diffuse Lens Shield Models	Fits EZ-SCREEN Type 2 HD Models	Lens Shield Lengths
LSW-150	LS2..30-150	210 mm
LSW-300	LS2..30-300	360 mm
LSW-450	LS2..30-450	510 mm
LSW-600	LS2..30-600	660 mm
LSW-750	LS2..30-750	810 mm
LSW-900	LS2..30-900	959 mm
LSW-1050	LS2..30-1050	1109 mm
LSW-1200	LS2..30-1200	1259 mm
LSW-1350	LS2..30-1350	1409 mm
LSW-1500	LS2..30-1500	1558 mm
LSW-1650	LS2..30-1650	1708 mm
LSW-1800	LS2..30-1800	1858 mm

Description

The model LSW Diffuse Lens Shield is a replaceable protective cover for the lens of an EZ-SCREEN Type 2 sensor.

The shield is made of 1.5 mm (0.06 inch) thick acrylic, which reduces the range, increases the field of view, and protects the emitter and receiver from damage caused by weld flash. Products with diffuse shields installed will continue to meet applicable safety standards.

Diffuse shields are available for every sensor length and attach to the sensor with an adhesive-backed Neoprene foam gasket.

Application Note: When diffuse shields are installed on both the emitter and receiver, the maximum operating range is reduced by 65 percent and the field of view at 3 meters is increased by 60 percent for the emitter and 120 percent for the receiver.

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Installing the Lens Shield

Remove all dust, dirt, and oil from the metal surfaces on all four sides of the emitter or receiver lens, using a mild detergent or window cleaner and a soft cloth. Also clean the sensor lens, if needed.



NOTE: Avoid cleaning agents containing alcohol, as they will damage the sensor's acrylic lens. If in doubt about the composition of a cleaning agent, test a small area of the acrylic sensor lens away from a beam location (as indicated on the housing sides) by applying the cleaning agent and allowing it to evaporate.

The foam gasket is pre-attached to the lens shield. Peel the paper backing from the foam gasket. Press one end of the lens shield to the bottom end of the sensor, aligned with the end cap's bottom edge, and apply pressure, moving slowly to the top end. The width of the lens shield corresponds closely to the width of the sensor, so it is easy to keep it centered during mounting. Peel away the protective coating from the lens shield's outer surface.

Maintaining the Lens Shield

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 shield material.

Replacing the Lens Shield

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

To remove, peel the lens shield away from the sensor starting at either end, and continuing to the opposite end. All or most of the gasket will remain attached to the sensor; peel the gasket material away. Clean the sensor and install the new lens shield as described in these instructions.

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