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the machine safety specialist

EZ-SCREEN™ Lens Shields

For EZ-SCREEN™ Emitters and Receivers



Features

- 1.5 mm (0.06") clear polycarbonate
- Neoprene foam gasket
- Easy to install
- Available in sizes to protect all EZ-SCREEN emitter and receiver models.

Models

Lens Shield Model	Fits EZ-SCREEN Models		Lens Shield Length
EZS-149	EZ-SCREEN Point	**SP..1**	149 mm
EZS-684	EZ-SCREEN Grid	**SG..2-500**	684 mm
EZS-768		**SG..2-584**	768 mm
EZS-984		**SG..3-400**	984 mm
EZS-1251		**SG..3-533**	1251 mm
EZS-1084		**SG..4-300**	1084 mm
EZS-150	EZ-SCREEN	**SLS..150**	258 mm
EZS-300		**SLS..300**	368 mm
EZS-450		**SLS..450**	518 mm
EZS-600		**SLS..600**	667 mm
EZS-750		**SLS..750**	817 mm
EZS-900		**SLS..900**	967 mm
EZS-1050		**SLS..1050**	1116 mm
EZS-1200		**SLS..1200**	1266 mm
EZS-1350		**SLS..1350**	1416 mm
EZS-1500		**SLS..1500**	1565 mm
EZS-1650		**SLS..1650**	1715 mm
EZS-1800		**SLS..1800**	1865 mm

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EZ-SCREEN™ Lens Shield

Description

The model EZS-xx Lens Shield is a replaceable protective cover for the lens of an EZ-SCREEN sensor. The shield is made of 1.5 mm (0.06") thick clear polycarbonate to protect the emitter or receiver lens from damage due to weld flash or impact.

Shield models are available for every sensor length (see table on the front of this sheet). The shields attach to the sensor with an adhesive-backed Neoprene foam gasket.

Application Note: When shields are installed on both the emitter and receiver, excess gain is reduced by 36 percent and maximum operating range is reduced by 20 percent.

Installation

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 and the lens shield, 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.

Maintenance

To prevent loss of excess gain, the shields should be cleaned 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 polycarbonate shield material.

Replacement

The shield should be replaced 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 the instructions on the front of this sheet.

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