LX Series Lens Shields

Datasheet



The model LXS.. Lens Shield is a replaceable protective cover for the lens of an LX Series sensor. The shield is made of 1.5 mm (0.06 inch) thick clear polycarbonate to protect the sensor from damage due to weld flash or impact.

Shield models are available for every sensor length (see chart below). The shields attach to the sensor with a pre-attached, adhesive-backed Neoprene foam gasket.

- 1.5 mm (0.06 inch) clear polycarbonate lens
- Neoprene foam gasket
- Easy to install
- Available in lengths to protect 3.5-inch, 6.5-inch, and 12.5-inch long light screen emitters and receivers.

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.

Sensor Length	Lens Shield Model Number	Part Number	Lens Shield Length
3.5 inches	LXS3	71351	3.87 inches
6.5 inches	LXS6	71352	6.87 inches
12.5 inches	LXS12	71353	12.87 inches

Installing the Lens Shield

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

Avoid cleaning agents containing alcohol; they will damage the sensor's acrylic lens or the status indicators. If in doubt about the composition of a cleaning agent, test a small area of the acrylic sensor lens below the active lens area (at the bottom of the sensor, just above the cable connector) 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, just above the status indicators, 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 or the sensor.

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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