

## MICRO-SCREEN<sup>®</sup> Lens Shields

For MICRO-SCREEN<sup>®</sup> Sensors



### Description

The model USSxx Lens Shield is a replaceable protective cover for the lens of a MICRO-SCREEN sensor. The shield is made of 1.5 mm (0.06") thick clear polycarbonate to protect the MICRO-SCREEN 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.

**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.

MICRO-SCREEN Sensor Length	Lens Shield Model Number	Part Number	Lens Shield Length
4"	USS4	55116	4.4"
8"	USS8	55117	8.4"
12"	USS12	55118	12.4"
16"	USS16	55119	16.4"
20"	USS20	55120	20.4"
24"	USS24	55121	24.4"
28"	USS28	55122	28.4"
32"	USS32	55123	32.4"
36"	USS36	55124	36.4"
40"	USS40	55125	40.4"
44"	USS44	55126	44.4"
48"	USS48	55127	48.4"
56"	USS56	55128	56.4"
64"	USS64	55129	64.4"
72"	USS72	55130	72.4"

### Features

- 1.5 mm (0.06") clear polycarbonate lens
- Neoprene foam gasket
- Easy to install
- Available in lengths to protect 4" to 72" long light screen emitters and receivers.

### Installation

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

**NOTE: Avoid cleaning agents containing alcohol, as 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.

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## 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 or the sensor's status indicators.

## 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.



**WARRANTY:** Banner Engineering Corporation warrants its products to be free from defects for one year. Banner Engineering Corporation 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.