



# MINI-SCREEN® Lens Shields

For MINI-SCREEN® Sensors

## MSA Series Description

Model MSSxx is a replaceable protective cover for the lens of a MINI-SCREEN or MINI-ARRAY sensor lens. The shield is made of 1.5 mm (0.6") clear polycarbonate.

Shield models are available for every length of sensor from 4-inches to 48-inches (see chart, below). The shields attach to the sensor using two adhesive-backed Neoprene foam strips.

*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)*



### MS Shield Features

- 1.5 mm (0.6") clear polycarbonate
- Neoprene foam
- Easy to assemble; available in lengths from 4-inches to 48-inches

Protective Shield	Model Number	Assembly Number	Length
4"	MSS4	44308	5.4"
8"	MSS8	44309	9.4"
12"	MSS12	44310	13.4"
16"	MSS16	44311	17.4"
20"	MSS20	44312	21.4"
24"	MSS24	44313	25.3"
28"	MSS28	44314	29.3"
32"	MSS32	44315	33.3"
36"	MSS36	44316	37.3"
40"	MSS40	44317	41.3"
44"	MSS44	44318	45.3"
48"	MSS48	44319	49.3"

## Shield Installation

Remove all dust, dirt, and oil from the metal surfaces on all four sides of the MINI-SCREEN sensor lens using a mild detergent or window cleaner and a soft cloth. Also clean the MINI-SCREEN lens and the lens shield, if needed. NOTE: Avoid cleaning agents containing alcohol, as they will damage the acrylic lens. If in doubt about the composition of a cleaning agent, test a small area of the acrylic sensor lens below the active lens area (i.e. - 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 continue by applying pressure and moving slowly to the top end. The width of the lens shield is very close to the width of the sensor, so it is easy to keep centered during mounting.

## Shield Maintenance

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.

## Shield Replacement

Peel the lens shield away from the sensor starting at the top or bottom end, and continuing to the opposite end of the sensor. All or most of the gasket will remain attached to the sensor. Peel the gasket material away from the sensor. Clean the sensor and install the new lens shield as described in the above instructions.



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