

Wedge Mounting Kits

for MicroPulse_® Light Heads on an Angled Vehicle Surface

Installation Instructions

Limited Warranty

This product is subject to and covered by a limited warranty, a copy of which can be found at www.fedsig.com/SSG-Warranty. A copy of this limited warranty can also be obtained by written request to Federal Signal Corporation, 2645 Federal Signal Drive,University Park, IL 60484, email to info@fedsig.com or call +1 708-534-3400.

This limited warranty is in lieu of all other warranties, express or implied, contractual or statutory, including, but not limited to the warranty of merchantability, warranty of fitness for a particular purpose and any warranty against failure of its essential pupose.



2645 Federal Signal Drive University Park, Illinois 60484

www.fedsig.com

Customer Support

 Police/Fire-EMS:
 800-264-3578 • +1 708 534-3400

 Work Truck:
 800-824-0254 • +1 708 534-3400

 Technical Support
 800-433-9132 • +1 708 534-3400

All trademarks are property of their respective owners.

Contents

Safety Messages for Installers of Warning Lights4
Product Overview5
Unpacking the Kit5
Preparing the Light Head7
Mounting the Light Heads9
Getting Repair Service11
Ordering Replacement Parts11
Tables
Table 1 MPSM3-SPACRKT mounting kit5
Table 2 MPSM6-SPACRKT mounting kit5
Table 3 MPSM12-SPACRKT mounting kit5
Table 4 MPSMW9-SPACRKT mounting kit 6
Table 5 MPSM3U-SPACRKT mounting kit6
Table 6 MPSM6U-SPACRKT mounting kit6
Table 7 MPSM12U-SPACRKT mounting kit6
Table 8 MPSM650-SPACRKT mounting kit6
Table 9 MPSMC-SPACRKT mounting kit6
Table 10 MPSMW6-SPACRKT mounting kit6
Table 11 MPSM3UC-SPACRKT mounting kit7
Table 12 MPSMW9-SPACRKT2 mounting kit7
Figures
Figure 1 Mating pins on the wedges8
Figure 2 MicroPulse® secured to mounting surface8
Figure 3 MicroPulse® secured to mounting surface10

Safety Messages for Installers of Warning Lights

Safety Messages for Installers of Warning Lights

A WARNING

People's lives depend on your safe installation of our products. It is important to read, understand and follow all instructions shipped with the products. Listed below are some other important safety instructions and precautions you should follow:

- To properly install the light, you must have a good understanding of automotive electrical procedures and systems, along with proficiency in the installation and use of safety warning equipment.
- Do not install equipment or route wiring in the deployment path of an airbag.
- If a vehicle seat is temporarily removed, verify with the vehicle manufacturer if the seat needs to be recalibrated for proper airbag deployment.
- When drilling into a vehicle structure, ensure that both sides of the surface are clear of anything that could be damaged.
- Locate the light control so the VEHICLE and CONTROL can be operated safely under all driving conditions.
- Do not attempt to activate or deactivate the light control while driving in a hazardous situation.
- Frequently inspect the light to ensure that it is operating properly and is securely attached to the vehicle.
- This product mounts high-intensity LEDs. Do not stare directly into the lights at a close range, or permanent damage to your eyesight may occur.
- Refer to the instructions packed with related products for additional precautions and information.
- File these instructions in a safe place and refer to them when maintaining and/or reinstalling the product.

Failure to follow all safety precautions and instructions may result in property damage, serious injury, or death.

Product Overview

These instructions describe how to use the wedge kits to mount MicroPulse® LED light heads to an angled vehicle surface. The wedge kits, specifically designed for each light head configuration, are shown in Table 1. For electrical installation instructions, refer to the instructions included with the light head.

Unpacking the Kit

After unpacking the product, inspect it for damage that may have occurred in transit. If it has been damaged or is missing a part, do not attempt to install or operate it. File a claim immediately with the carrier, stating the extent of the damage. Carefully check all envelopes, shipping labels and tags before removing or destroying them. Ensure that all parts in Table 1 have been included. If you are missing any parts, contact Customer Support at 1-800-264-3578, 7 a.m. to 5 p.m., Monday through Friday (CT).

Table 1 MPSM3-SPACRKT mounting kit

Qty.	Description	Part Number
4	Wedges, 5 Degrees	861300144
4	Screw, Self-Threading, #6	7011205-24

Table 2 MPSM6-SPACRKT mounting kit

Qty.	Description	Part Number
4	Wedges, 5 Degrees	861300145
4	Screw, Self-Threading, #6	7011205-24

Table 3 MPSM12-SPACRKT mounting kit

Qty.	Description	Part Number
4	Wedges, 5 Degrees	861300366
4	Screw, Self-Threading, #6	7011205-24

Table 4 MPSMW9-SPACRKT mounting kit

Qty.	Description	Part Number
4	Wedges, 5 Degrees	861300882
4	Screw, Self-Threading, #6	7011205-24

Table 5 MPSM3U-SPACRKT mounting kit

Qty.	Description	Part Number
4	Wedges, 5 Degrees	861301115
4	Screw, Self-Threading, #6	7011205-24

Table 6 MPSM6U-SPACRKT mounting kit

Qty.	Description	Part Number
4	Wedges, 5 Degrees	861300881
4	Screw, Self-Threading, #6	7011205-24

Table 7 MPSM12U-SPACRKT mounting kit

Qty.	Description	Part Number
4	Wedges, 5 Degrees	861301114
4	Screw, Self-Threading, #6	7011205-24

Table 8 MPSM650-SPACRKT mounting kit

Qty.	Description	Part Number
4	Wedges, 5 Degrees	861301782
4	Screw, Self-Threading, #6	7011205-24

Table 9 MPSMC-SPACRKT mounting kit

Qty.	Description	Part Number
4	Wedges, 5 Degrees	861302112
4	Screw, Self-Threading, #6	7011205-24

Table 10 MPSMW6-SPACRKT mounting kit

Qty.	Description	Part Number
4	Wedges, 5 Degrees	861302072
4	Screw, Self-Threading, #6	7011205-24

Table 11 MPSM3UC-SPACRKT mounting kit

Qty.	Description	Part Number
4	Wedges, 5 Degrees	861304063
4	Screw, Self-Threading, #6	7011205-24

Table 12 MPSMW9-SPACRKT2 mounting kit

Qty.	Description	Part Number
2	Wedges, 22 Degrees	861304396
4	Screw, Self-Threading, #6	7011205-24

Preparing the Light Head

IMPORTANT: Plan all cable routing before the installation.

Tools required:

- Hammer
- Center punch
- Drill
- 7/64-inch drill bit
- 1/8-inch drill bit
- 1/2-inch drill bit
- · Phillips screwdriver

A WARNING

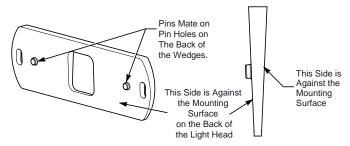
AIRBAG DEPLOYMENT: Do not install equipment or route wiring in the deployment path of an airbag. Failure to observe this warning will reduce the effectiveness of the airbag or potentially dislodge the equipment, causing serious injury or death.

NOTE: Four wedges, which angle the light head at 20 degrees, is the recommended limit.

To prepare the light head:

1. Examine the wedge. Note that one side has two pins. The side with the pins fits against the back of the light head. The pinhole side fits flat against the mounting surface. See Figure 1.

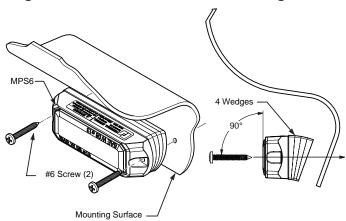
Figure 1 Mating pins on the wedges



To secure multiple wedges together, the pins of one wedge mate with the pin holes of another.

- 2. Select the mounting location.
- **3.** Hold the light head with the required number of wedges on the mounting location.
- **4.** Using the wedges and light head as a template, mark the screw locations so that the screws are perpendicular, or 90 degrees, to the front of the light head. See Figure 2.

Figure 2 MicroPulse® secured to mounting surface



5. Remove the wedges.

Mounting the Light Heads

To mount the light heads with one or more wedges:

1. Depending on the thickness and the type of material of the mounting surface, select a 7/64-inch bit or a 1/8-inch bit.

NOTICE

DRILLING PRECAUTIONS: When drilling holes, check the area you are drilling into to ensure that you do not damage vehicle components while drilling. All drilled holes should be deburred, and all sharp edges should be smoothed. All wire routings going through drilled holes should be protected by a grommet or convolute/split loom tubing.

- 2. With the drill perpendicular to where the front of the light head would be, drill holes for the mounting kit screws.
- 3. Drill a 1/2-inch hole through which the wires will pass.
- **4.** Prepare the wire-routing hole by removing all burrs and sharp edges.
- 5. Feed the wires through the wedges and the wire-routing hole.
- **6.** Connect the wire leads as described in the MicroPulse installation manual, taking care to protect the connections from the environment.

NOTICE

DO NOT OVERTIGHTEN THE SCREWS: To avoid damage to the light head, do not overtighten the screws.

Mounting the Light Heads

7. Attach the light head and wedges to the mounting surface with the provided #6 self-threading screws. See Figure 3.

Light is
Perpendicular
to Ground
Screw into
Mounting
Location

NOTICE: Screw is Not
Perpendicular to
Mounting Surface

Figure 3 MicroPulse® secured to mounting surface

Getting Technical Support and Service

For technical support and service, please contact:

Federal Signal Corporation Service Department

Phone: 1-800-433-9132

Email: empserviceinfo@fedsig.com

Getting Repair Service

The Federal Signal factory provides technical assistance with any problems that cannot be handled locally.

Any units returned to Federal Signal for service, inspection, or repair must be accompanied by a Return Material Authorization (RMA). Obtain a RMA from a local Distributor or Manufacturer's Representative.

Provide a brief explanation of the service requested, or the nature of the malfunction.

Address all communications and shipments to the following:

Federal Signal Corporation Service Department 2645 Federal Signal Drive University Park, IL 60484-3167

Ordering Replacement Parts

To order replacement parts, call Customer Support at 1-800-264-3578, 7 a.m. to 5 p.m., Monday through Friday (CT) or contact your nearest distributor.



2645 Federal Signal Drive University Park, Illinois 60484

www.fedsig.com

Customer Support

Police/Fire-EMS: 800-264-3578 • +1 708 534-3400 Work Truck: 800-824-0254 • +1 708 534-3400 Technical Support 800-433-9132 • +1 708 534-3400