

Installation Instructions for ARINAlert™ Forklift Monitoring Unit and Forklift Tag

Contents of box for each forklift



Forklift Monitoring Unit or Tag
And Power Plug



Optional Buzzer



Stack Light with Integrated Buzzer

Putting it together



The **Forklift Monitoring Unit** has leads out of two sides:


Power input side Multi-voltage (12V-60V DC): A power plug connects to a dedicated power cable hardwired to the forklift power rail. Red – Positive, Black – Negative (Ground)

Accessory connection side: The stack light and the buzzer will plug into their unique connectors on the forklift monitoring unit.

 ***Inspect all components for damage during shipping. Do not proceed if damage is apparent.***

 ***Components and connectors may vary.***



 ***Installation by a professional forklift mechanic is highly recommended.***

 ***Alerting systems are no substitute for best practices. Always be aware of surroundings and follow OSHA standard 1910.178.***

Attaching to Forklift

 Do not drill holes or modify the roll cage of the forklift when installing the forklift monitoring unit.

 FMU/TAG performs optimally with clear line of sight. Avoid placement behind metal plates or screens.

 <p>Light</p> <p>Forklift Monitoring Unit</p> <p>ARINAlert™</p>	<p>For uniform alerting in all directions:</p> <p>Attach the forklift monitoring unit to the top front middle of the overhead guard, or approximate center of the forklift, for entire footprint including the forks. Use heavy duty zip ties. Loop through the FMU/TAG guides and around the overhead guard structure as shown below. Pull zip ties tight.</p> <p>Guides rotate for varying installation requirements.</p>
 <p>FMU</p> <p>Stack Light</p>	<p>For backup alert bias:</p> <p>Attach the forklift monitoring unit to the top rear middle of the overhead guard to give earlier alerts in backup situations. Use heavy duty zip ties. Loop through the FMU/TAG guides and around the overhead guard structure as shown below. Pull zip ties tight.</p> <p>Guides rotate for varying installation requirements.</p>

Example installation:

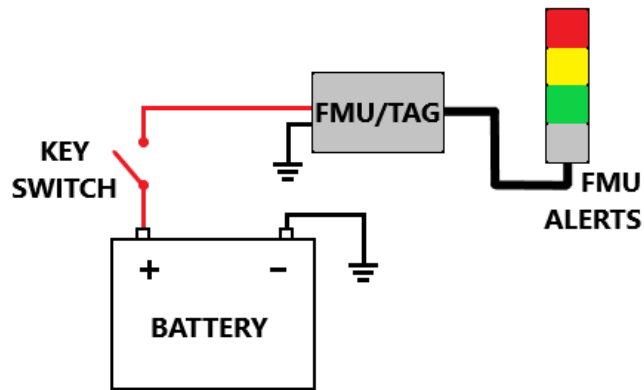


Wiring



Disconnect battery before performing electrical modifications.

- Power lead is required from the forklift only. Power requirement is 12- 60V DC and 2 amps.
- Confirm how the vehicle is wired. Make sure which wire is ground and which goes to power (is hot).
- Connect the black wire to the ground side of the power supply.
- Connect the red wire to the hot side of the power supply.
- Make sure all wire ends are enclosed in either wire nuts or crimp terminals to avoid shorting out the circuits.
- Reconnect the battery.



Wiring diagram



Train all workers on the function of the ARINAlert system before releasing for use in the facility.

Daily Checklist

- ✓ The FMU or TAG is powered on.
 - A blue light inside the FMU or TAG box indicates operation.
 - The Green light on the FMU stack light indicates operational and no tags are in proximity.
- ✓ For FMU, verify distance alerts and visibility of signal.
 - With a powered pedestrian tag (blue light on), approach the forklift from front, rear, sides, and corners.
 - Verify that yellow light (2 Hz beep) and red light (4 Hz beep) indicate warning and danger as expected.
 - Verify that green light turns on when pedestrian tag leaves the alert zone.
- ✓ For forklift TAG, verify distance alerts and visibility of signal.
 - *Slowly* drive the tagged forklift and approach an area monitor in a known location.
 - Verify that the yellow light and red light react as expected.
 - Verify that the green light turns on when the tagged forklift leaves the alert zone.

Warning and Danger zones are pre-configured

The Warning and Danger zones are pre-configured based on the information provided in the questionnaire. Please **contact ARIN Technologies at support@arintechnologies.xyz or (724)897-7216** if you need assistance in adjusting the Warning and Danger zone distances to suit your specific needs.

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