



Installation and Operation Instructions

5280 Series LED Hybrid Minibars

The 5280 Series RotoLED™ Minibar combines all the benefits of the latest LEDs with the unmistakable warning signal of a rotator, without compromising reliability. LED hybrid technology uses a brushless hybrid stepper motor to spin the reflector disk, reducing noise and eliminating the typical motor/gear drawbacks associated with conventional rotators. Each hybrid module features eight LEDs, dual speed functionality and a TIR optic. Additional benefits include an extended service free life, low amp draw and a 5 year warranty.



WARNING!

Failure to install or use this product according to manufacturer's recommendations may result in property damage, serious injury, and/or death to those you are seeking to protect!



Do not install and/or operate this safety product unless you have read and understand the safety information contained

1. Proper installation combined with operator training in the use, care, and maintenance of emergency warning devices are essential to ensure the safety of you and those you are seeking to protect.
2. Exercise caution when working with live electrical connections.
3. This product must be properly grounded. Inadequate grounding and/or shorting of electrical connections can cause high current arcing, which can cause personal injury and/or severe vehicle damage, including fire.
4. Proper placement and installation are vital to the performance of this warning device. Install this product so that output performance of the system is maximized and the controls are placed within convenient reach of the operator so that s/he can operate the system without losing eye contact with the roadway.
5. Do not install this product or route any wires in the deployment area of an air bag. Equipment mounted or located in an air bag deployment area may reduce the effectiveness of the air bag or become a projectile that could cause serious personal injury or death. Refer to the vehicle owner's manual for the air bag deployment area. It is the responsibility of the user/operator to determine a suitable mounting location ensuring the safety of all passengers inside the vehicle particularly avoiding areas of potential head impact.
6. It is the responsibility of the vehicle operator to ensure during use that all features of this product work correctly. In use, the vehicle operator should ensure the projection of the warning signal is not blocked by vehicle components (i.e., open trunks or compartment doors), people, vehicles or other obstructions.
7. The use of this or any other warning device does not ensure all drivers can or will observe or react to a warning signal. Never take the right-of-way for granted. It is your responsibility to be sure you can proceed safely before entering an intersection, driving against traffic, responding at a high rate of speed, or walking on or around traffic lanes.
8. This equipment is intended for use by authorized personnel only. The user is responsible for understanding and obeying all laws regarding warning signal devices. Therefore, the user should check all applicable city, state, and federal laws and regulations. The manufacturer assumes no liability for any loss resulting from the use of this warning device.

Specifications:

Size:	5280 5280-MG	13.3"L x 6.3"W x 5.8"H 15.2"L x 6.4"W x 6.1"H
Weight:	5280 5280-MG	approx. 4.4 lbs. approx. 5.7 lbs.
Input Voltage:	12 to 24 VDC systems	
Input Current:	3.7 Amps Maximum (+12.8VDC) Maximum power consumption: 47 watts (+12.8VDC)	
Flash Rate:	Per Hybrid Module:	Total:
	Fast: 120 cycles/minute	360 cycles/minute
	Slow: 75 cycles/minute	225 cycles/minute
Temp. Range:	-30°C to +50°C	

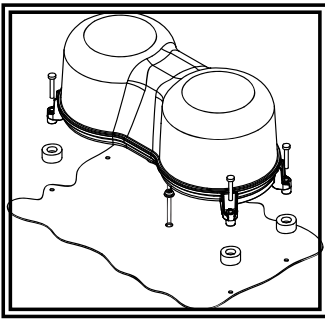


Figure 1

Installation & Mounting:

Important! This unit is a safety device, and it must be connected to its own separate, fused power point to assure its continued operation should any other electrical accessory fail.

Carefully remove the minibar and place it on a flat surface. Examine the unit for transit damage, and locate all parts. If damage is found, or parts are missing, contact the transit company or ECCO. Do not use damaged or broken parts.

Permanent Mounting:

1. Select the desired location on a flat surface for the minibar to be mounted. The visibility of the LED hybrid flash and ease of wiring access should be taken into consideration in the selection of the mounting location.
2. Using the minibar base as a template, mark the four mounting hole locations (see Figure 1).
3. Drill the holes using a 7/32" drill size.
4. A fourth hole may be drilled for wire access as shown in Figure 1, and the wires may be routed through the grommet.
5. Connect the power wires as shown in the wiring section (see Figure 2).
6. Mount the minibar with #10 hardware.

WARNING!
Failure to follow these instructions can result in fire or injury from excessive heat build up.

- Operator is responsible for ensuring cigarette adapter fits correctly into cigarette/auxiliary outlet used.
- For proper operation, verify cigarette/auxiliary outlet circuit is rated to supply a minimum of 10 amps. (See specifications section for rated current in amperes).
- Do not exceed the current rating for the cigarette lighter power outlet recommended by vehicle manufacturer.
- Keep cigarette lighter adapter and outlet clean and free of debris.
- Do not use the cigarette lighter adapter when wet.
- Insert cigarette lighter adapter fully into the outlet for proper connection.
- Grasp cigarette lighter adapter, NOT cord, to remove from outlet.
- Remove cigarette lighter adapter completely from outlet when light is not in use.

Temporary Mounting, Magnet Mount:

The Magnet Mount feature includes 4 magnets on the bottom of the minibar for a secure, temporary mount. The minibar should be placed in the center of the roof where the least amount of curvature occurs. Before installing, make sure there is no debris on the bottom of the minibar or on the roof of the vehicle, which could reduce the holding power of the magnet. Place and remove the minibar without sliding to avoid scratching the paint on the vehicle. After placement, the minibar should adhere firmly to the surface. If the unit slides or moves easily, a proper installation has not been obtained. To protect the minibar and magnet mount assembly, return minibar to the box when not in use. **Do not attempt to attach the minibar to an ice covered surface.**

Important! The magnet mount is not recommended for use on a moving vehicle, nor is it intended as a permanent mount for the minibar. Long duration usage of the magnet in the presence of moisture will cause the steel to rust.

Caution: When drilling into any vehicle surface, make sure the area is free from any electrical wires, fuel lines, vehicle upholstery, etc. that could be damaged

Wiring:

Important! Disable power before wiring the minibar.

The wiring for this configuration is as shown in Figure 2. All wiring should be a minimum of 18 AWG. The positive line must have a 5 amp fuse as shown. A switch may be used to control the on/off function. Routing a ground wire directly to the negative battery terminal is suggested. For a 120 FPM rotation speed, connect only the red wire to (+) power and isolate the yellow wire. For a 75 FPM rotation speed, wire the red and yellow wires together to (+) power.

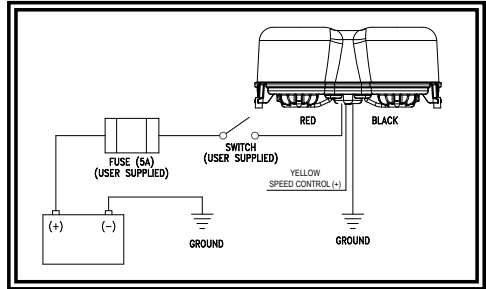


Figure 2

Replacement Parts and Accessories:

Description	Part No.
Magnet Mount Kit	A7212MK