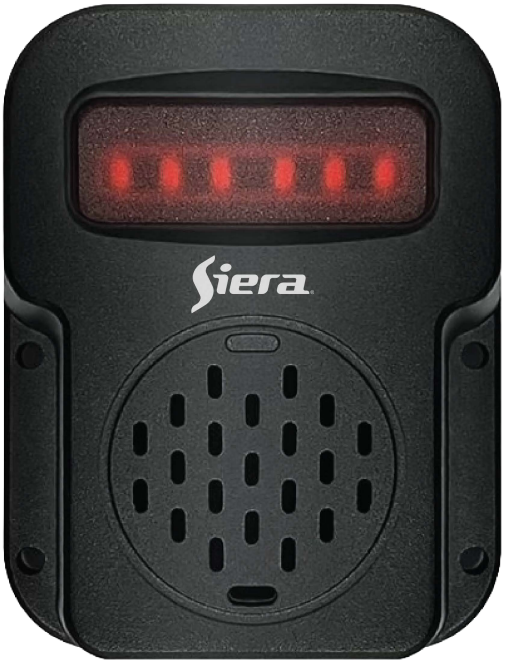


SXM AS01

Sound and light alarm

The SXM AS01 provides an audible and visual warning for vehicle and site applications. This manual covers identification, specifications, installation, connection and basic commissioning. Functions depend on the supplied hardware version.

Siera Electronics

User Manual

Product overview

The alarm combines a high-brightness LED light with a 5 W speaker. The housing is designed for demanding environments and is rated IP69K. The light can simulate rotation or flash; the flashing frequency is adjustable from 1 to 5 Hz.

Available functions can vary by hardware version. RS232 communication and four high-level trigger inputs are optional. Color selection and the 4-pin or 6-pin connector are configuration dependent. Confirm the delivered configuration before wiring.

Specifications

Supply voltage	DC 8–36 V
Operating temperature	–40 to +80 °C
Maximum power	12 W
Speaker output	5 W
Light behavior	Simulated rotation or flashing; 1–5 Hz adjustment range
Light color	White, red or yellow, depending on version
Connector	GX12-4P or 6P aviation connector; configurable
Cable length	300 mm; configurable
Communication	RS485; RS232 optional
Digital inputs	4 high-level trigger inputs, optional
Mounting	Four M5 fixing points
Ingress protection	IP69K
Housing	Aluminum alloy
Dimensions	127 × 97 × 42 mm
Weight	430 g
Housing color	Black or traffic gray; other colors configurable

Installation

Before installation, inspect the alarm, cable and connector for damage. Confirm the connector version, supply voltage and optional functions against the vehicle installation plan.

Choose a rigid, flat mounting surface with enough clearance for the light and speaker. Orient the light upward. Mark the four fixing points, drill suitable holes and secure the unit using M5 screws appropriate for the mounting surface. The two holes on each side are spaced 40 mm apart; the front pair is spaced 84 mm apart. Confirm the dimensions on the actual unit before drilling.

Disconnect vehicle power before installation. Route and secure the cable away from heat, moving parts, sharp edges and pinch points. Use an extension cable only when required and ensure it is suitable for the environment. Do not pull the unit by its cable.

Connection and commissioning

The standard 4-pin interface is assigned as follows. Confirm pin numbering on the actual connector before connecting; the 6-pin and customized versions may differ.

Pin	Function
1	VCC
2	GND
3	RS485-B
4	RS485-A

For a basic function check, connect the alarm to a verified 12 V supply with correct polarity. Confirm that the light and audible warning operate. Depending on configuration, the light may illuminate for about one second at startup. Verify polarity and cable assignment before applying power.

RS485 communication and optional RS232 or trigger inputs require compatible vehicle wiring and configuration. Baud rate, commands and input thresholds depend on the supplied configuration. Confirm these details before connecting optional interfaces.

After installation, restore power and check that the alarm starts as expected. Test the visual and audible warning in a controlled location, then verify that the unit and wiring are firmly secured.

Care and troubleshooting

Clean the housing with a soft damp cloth. Do not use abrasive cleaners or solvents. Disconnect power before inspecting the cable or connector. Do not open the sealed housing; opening it can compromise water protection.

If the alarm does not start, disconnect power and recheck supply voltage, polarity, ground and connector seating. If the light works but there is no sound, or if optional communication or trigger functions do not respond, confirm the configured version and vehicle-side wiring. Stop use if the cable, connector or housing is damaged.

The SXM AS01 housing is rated IP69K. Inspect seals and connectors after installation. Impact, unauthorized modification or damaged wiring can compromise water protection.



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