elmes ®
electronic

WIRELESS SIREN CONTROL MODULE - Elmes WSM   (EN)

Elmes WSM Module allows Elmes WSS Wireless Siren & Strobe device (as from ver.1.10) to be used with any hardwired alarm system. The module features **two way communication** interface with wireless siren and supports all wired alarm functionality. By employment of two way communication technique the interface module and wireless siren are both transmitter-receiver units achieving wireless connection security level similar to that of wired connection. Sabotage, power supply or hardware failures in wireless siren are detected fast and reported to wired control panel. Following are essential technical features of the Elmes WSM module interface:
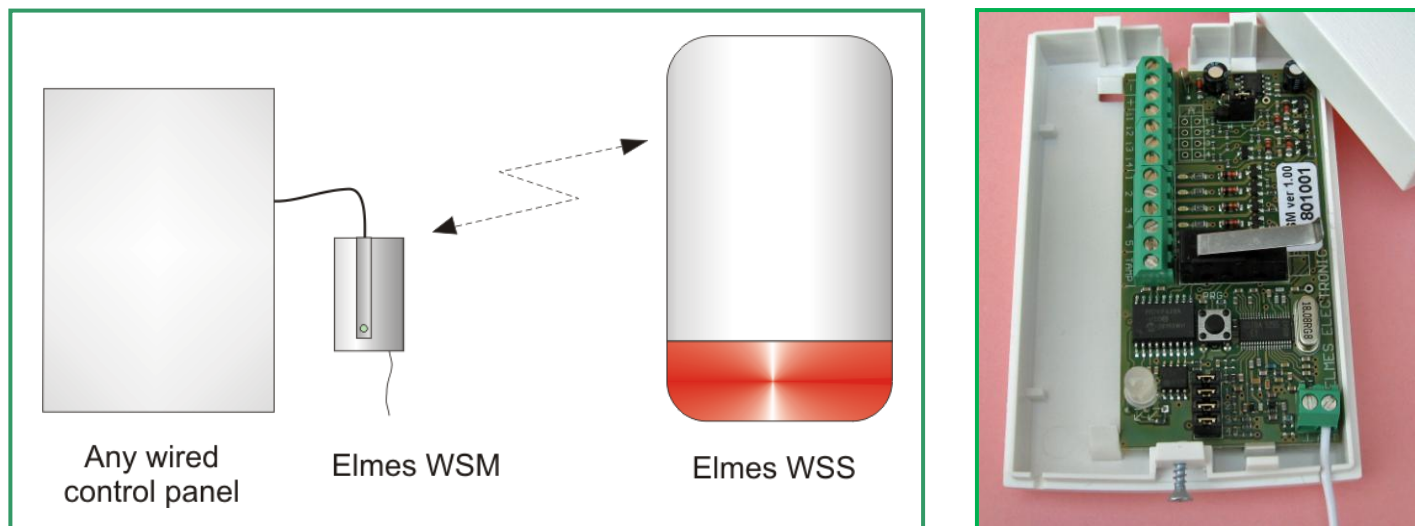
- independent control of audible and optical alarming of wireless siren;
- reporting of sabotage detection in wireless siren;
- supervisory radio transmissions with wireless siren;
- warning of AC power supply and battery failure states in wireless siren.

In addition, the use of Elmes WSM module extends functionality of wired alarm by adding optional key fob remote system arming and disarming feature with action externally audible and optically signaled by wireless siren.

Elmes WSM module connects to wired alarm control panel by multi-wire installation cable inclusive of power supply line with panel's battery backup. Comprehensive installation and programming manual of the module includes detailed examples of connecting the module with wireless siren to popular control panels on the market. Important other features of the module include sabotage case opening contact as well as universal antenna terminals that allow connection, besides included simple wire antenna, directional antenna with coaxial cable. Outputs set on indication LED diodes installed on board facilitate module's installation and testing procedures.

Operating range of Elmes WSS wireless siren and Elmes WSM control module set reaches over 100 meters radius in open field. However, that range may be vastly reduced in buildings and depends on building's construction, used materials and level of local radio interference. The set should not be installed on edge of its operating range and it is recommended to undertake practical operating range tests prior to firm installation.

Shown below are schematic block diagram of Elmes WSM and Elmes WSS application as used with any wired alarm control panel and the module's board inside its installation case.

The product complies to EU directive R&TTE 1999/5/EC as confirmed by signed manufacturer's Conformity Declaration and is made free of lead and other hazardous substances, in accordance with RoHS directive.

Elmes WSM specification:

- Power supply 9..16 VDC; standby current 25mA, max. current - 40mA at all 5 outputs on;
- Transceiver CE 433,92MHz, sensivity: -105dBm, e.r.p. <10mW.
- Relay outputs OC type 50mA rated. Active state: coupled to ground. Output no 1 with reversible polarity.
- Inputs' selectable sensitivity: active when high (12VDC) or active when low (circuit ground).
- Sabotage protection case – TAMP contact with NC (normally closed) terminals.
- Circuit board dimensions: 78x40x24mm; case dimensions: 96x62x28mm.
- Indoor operation with ambient temperatures range from 0 to +40ºC and relative humidity up to 90%.

Package content:
Elmes WSM module with simple wire antenna, installation screws, installation and programming manual.

Manufacturer's Limited Warranty:
24 months as from date of sale, subject to conditions specified in manual.

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