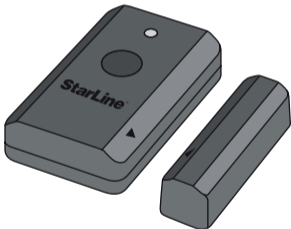# StarLine

MS-06BT

Wireless magnetic sensor

USER MANUAL

General description

StarLine MS-06BT wireless magnetic sensor
is designed for use with StarLine security systems.
It allows to perform reliable security perimeter
for motor homes, vans, trucks, garages, secure
external luggage carriers and other compartments
with no need in wire connection mounting.
MS-06BT operates via standard Bluetooth Smart
2.4GHz radio protocol and can be easily connected
to StarLine main units with integrated BLE.
Integrated reed switch helps to secure doors,
windows, sunroofs from unauthorized access
in guard mode.
3D accelerometer detects motion, shock,
inclination in secured zone and activates alarm.
Internal battery provides up to 2 years stand alone
operation, depending on exploitation and climatic
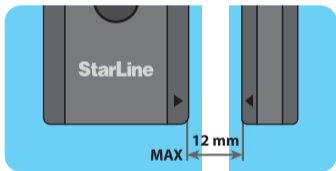specifics.

General installation requirements

The sensor housing is not waterproof. Do not
install the wireless sensor outwardly without
additional moisture and dust protection.
Do not install the sensor in engine compartment
and on transmission, suspension and exhaust
system parts.

Fix the sensor firmly on the smooth, clean and dry surface with included glue tape.

Fix the magnetic unit on the opening surface of a door, window in the same flat as sensor unit. The triangle marks on the sensor unit and magnetic unit should be placed towards each other.

The max distance between main unit and magnetic unit in the closed position should be within **12 mm**.

Note! The sensor unit comes from factory in transport power saving mode (inactive). It's indicated with green, red and yellow LED flashes on button pressing. Press the button several times to switch it into regular mode. Switching will be confirmed with green flashes on each further pressing.

Pairing with alarm main unit

1. Switch the alarm system main unit into Device registration mode (read StarLine security system manual)

2. Open the sensor unit housing and remove battery from holder on circuit board.

3. Press and hold the button on circuit board and insert battery in holder. LED on board will light up Red.

4. Release the button and make sure the presence of serial flashing LED Red within 10 sec.

5. Successful pairing will be confirmed by sensor LED one Green flash, Valet button LED double flash and double siren sound. If sensor is not registered, LED will light up Red.

6. Repeat steps 2-5 for all the sensors to be installed.

Firmware updating

1. Launch StarLine Master software PC or mobile version. Connect external BLE programmer or enable embedded Bluetooth adapter (should support Bluetooth Smart 4.2 and above).

2. Open the sensor unit housing and remove battery from holder on circuit board.

3. Press and hold the button on circuit board and insert battery in holder. LED on board will light up Red.

4. Keep holding the button until LED turns from Red to Orange. Then release the button.

5. Check if sensor is detected and appeared on StarLine Master screen. Click Update.

6. Wait firmware updating finish and the loading progress bar disappear. Updating complete.

Environmental reference

In the end of exploitation period the sensor must be disposed same as any old and damaged electric and electronic equipment. Do not dispose electronic and electric devices with normal household waste.
Or sensor can be disposed along with an old utilized vehicle, no need remove it in this case. Individual packing can be recycled and disposed in your local waste collecting system.

Technical specification

Battery power supply	CR2450 3V
Rated battery life	up to 2 years
Communication band and protocol	2.4GHz Bluetooth Smart
Rated operating distance	up to 15 m
Operating temperature	-40… +85 ℃
Weight	30 g
Dimensions	sensor unit 49x25x11 mm magnetic unit 40x11x10 mm

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www.alarmstarline.com

Manufacturer reserves the rights to change and improve design and technical specification without prior notice.

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