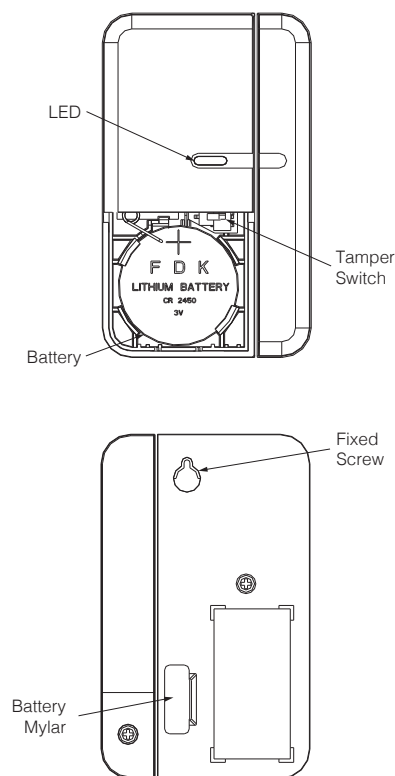




HSM02 Magnetkontakt/ Door sensor



Svenska

HSM02 är en Z-Wave magnetkontakt för att detektera öppning och stängning av exempelvis dörrar och fönster. Den kan anslutas till Nexa Bridge eller annan kontrollern som är Z-Wavecertifierad. HSM02 har inbyggt sabotagelarm.

Säkerhet

Läs igenom hela instruktionen först.

Anlita fackman vid behov. Nexa kan ej hållas ansvarig om den används till annat än den är designad för eller om instruktionen inte följs. Anslut aldrig lampor eller utrustning som överskrider mottagarens maximala belastning. Det kan leda till fel, kortslutning eller brand. Försök inte att reparera produkten. Den innehåller inga reparerbara delar. Produkten är inte vattentät. Se till att den alltid är torr. Använd inte kemikalier, lösningsmedel eller starka rengöringsmedel. Utsätt inte produkten för stark värme eller kyla.

Teknisk information

Inspänning	CR2450 3.0 V x 2
Frekvens	Z-Wave (868,42 MHz)
Räckvidd	Upp till 30 m
Dimensioner	70 x 42 x 12 mm
Arbetstemperaturområde	-10°C - 40°C

Installation

Använd den dubbelhäftande tejen för att montera sensorn på karmen till dörren eller fönstret.

Montera magneten på den rörliga delen med hjälp av den dubbelhäftande tejen. Se till att avståndet mellan sensorn och magneten är mindre än 20 mm. Se till att de två delarna är linjerade.

Det sitter en plastfilm [Mattery Mylar] för att hindra att enheten är på under tarnsport. Ta bort den.

Ta bort batteriluckan utan att trycka på [Tamper Switch]. Nu är enheten i testläge. Separera magneten från sensorn, LED-lampen kommer att lysa som kvittens.

Montera tillbaka batteriluckan för att sätta enheten i normalt läge.

Inkludering i Z-Wave nätverk

På enheten finns en knapp [Tamper Switch] som används för att inkludera, exkludera, och återställa. Se vidare i manualen för Z-Wavekontrollern hur enheten inkluderas eller exkluderas.

När inget nod-id finns lagrat blinkar LED:en varannan sekund.

Inkludera	Tryck 3 gånger på [Tamper Switch] inom 1,5 sekunder.
Exkludera	Tryck 3 gånger på [Tamper Switch] inom 1,5 sekunder.
Återställning	Tryck 3 gånger på [Tamper Switch] inom 1,5 sekunder. Tryck, inom 1 sekund, och håll [Tamper Switch] nedtryckt tills dess att LED slocknar. Enheten är nu återställd.
Associera	Sätt Z-Wavekontrollern i associeringsläge. Tryck 3 gånger på [Tamper Switch] inom 1,5 sekunder. Enheten kommer att skicka NIF som markerar att den är associeringsläge.

För information angående programmering av Z-Wavemodulen, se baksidan.

Användning

Se manualen till din Z-Wavekontrollern för information hur du använder HSM02 efter att den är inkluderad..

mer information på:
www.nexa.se/zwave

English

HSM02 is a Z-Wave door/window sensor that is used to detect opening or closure. It can be connected to Nexa Bridge or other Z-Wave controller. HSM02 has a built in tamper alarm.

Safety

Read the instructions first.

Call in professional as needed. Nexa can not be held responsible if it is used for other purposes than it is designed for, or if instructions are not followed. Never connect lights or equipment that exceeds the recipient's maximum load. It can lead to failure, short circuit or fire. Do not attempt to repair the product. It contains no serviceable parts. The product is not waterproof. Make sure it is completely dry. Do not use chemicals, solvents or harsh detergents. Do not expose to extreme heat or cold.

Technical information

Power supply	CR2450 3.0 V x 2
Frequency	Z-Wave (868,42 MHz)
Range	Up to 30 m
Dimensions	70 x 42 x 12 mm
Environment temp. range	-10°C - 40°C

Installation

Use the adhesive tape to fit the detector to the frame of the door or the window.

Fit the magnet to the moving part by using adhesive tape. Make sure that the distance is less than 20 mm between the parts. Make sure that the two units are aligned.

Remove the mylar film.

Remove the battery cover and do not press the tamper switch. The sensor is now in test mode. Separate the magnet from the sensor. The LED will illuminate.

Put the battery cover back.

Adding to a Z-Wave network

The button marked [Tamper Switch] on the unit is used to include, exclude and reset the unit.

See Z-Wave controller manual how inclusion/exclusion is done.

The Led flashes at every other second when no Node ID is stored.

Include	Press [Tamper Switch] 3 times within 1,5 seconds.
Exclude	Press [Tamper Switch] 3 times within 1,5 seconds.
Reset	Press [Tamper Switch] 3 times within 1,5 seconds. Then, within 1 seconds, press and hold [Tamper Switch] until LED turns off. The unit is now reset.
Association	Set Z-Wave controller in association mode. Press [Tamper Switch] 3 times within 1,5 seconds. The unit will now transmit NIF that indicates that it is in association mode.

For more information regarding how to program the Z-wave unit, see the other side.

Operation

See Z-Wave controller's manual for information how to use HSM02 when it is included.

more information at:
www.nexa.se/zwave

Programming

1. Z-Wave's Group (Association Command Class Version 1)

The unit supports two association groups. This has the effect that when the unit is triggered, all devices associated with the unit will receive the relevant reports.

Grouping 1 Support ALARM_REPORT, SENSOR_BINARY_REPORT
Grouping 2 Support BASIC_SET

Grouping 1 Application (Max. node=1)

Power Applied

Once the power has been applied, Alarm Report Command will be sent to Nodes in Grouping 1 to confirm the power applied status for HSM02.

Power Applied Notice:

[Command Class Alarm, Alarm Report, Alarm Level = 0x02, Alarm Type = 0x01]

1-1 Magnet status report: Binary Sensor Report

When the magnets of HSM02 are to be opened, Binary Sensor Report Command (Value = 0xFF) will be sent to Nodes in Grouping 1, and when the magnets are to be closed, Binary Sensor Report Command (Value = 0x00) will be sent as well.

Magnets to be opened:

[Command Class Sensor Binary, Sensor Binary Report, Value = 0xFF(255)]

Magnets to be closed:

[Command Class Sensor Binary, Sensor Binary Report, Value = 0x00(0)]

1-2 Low Battery Report

When HSM02 automatically wakes up, it will check the battery usage. When low battery is detected, Alarm Report Command will be sent to Nodes in Grouping 1, afterward, LED will light up for 1 sec to remind user when HSM02 is triggered due to open or close incidents.

Low Battery Report :

[Command Class Alarm, Alarm Report, Alarm Type = 0x01, Alarm Level = 0x01]

1-3 Tamper Event Report (Alarm Report)

Press and hold the tamper switch more than 10 seconds then release, the unit will send ALARM REPORT command to the nodes of Grouping 1 to inform them there is a tamper event.

Tamper Event Report :

[Command Class Alarm, Alarm Report, Alarm Type = 0x03, Alarm Level = 0x01]

1-4 Control other Z-Wave Devices

When door/window is opened, the unit will send BASIC SET command which contains a value that is adjustable, to the nodes of Grouping 2. For instance, the brightness level of a lamp module can be fixed according to the set value.

Grouping 2 Application (Max. node=5)

However, the BASIC_SET command will be also sent to the nodes of Grouping 2. For instance, a lamp module will be turned off after receiving the BASIC_SET command.

Basic Set Command:

Event Present:

[Command Class Basic, Basic Set, Value = 255 (0xFF)]

Event Clear:

[Command Class Basic, Basic Set, Value = 0 (0x00)]

2. Z-Wave's Configuration

2-1 Basic Set Level

When Basic Set Command is sent where contains a value, the receiver will take it for consideration; for instance, if a lamp module is received the Basic Set command of which value is decisive as to how bright of dim level of lamp module shall be.

Example:

1-99: ON (Binary Switch Device)

Dim Level (Multilevel Switch Device)

Function	Parameter Number	Size	Range	Default
Basic Set level	1	1	1-99	99
Configuration Command				

2-2 Configuring the OFF Delay

The Configuration parameter that can be used to adjust the amount of delay before the OFF command is transmitted as Configuration Parameter #2. This parameter can be configured with the value of 0 through 127, where 0 means send OFF command immediately and 127 means 127 seconds of delay.

Function	Parameter Number	Size	Range	Default
Basic Set level	2	1	0-127	0s
Configuration Command				

3. Advanced Programming

The following information is for someone that has some experience setting up a Z-Wave system or someone that has computer software running a Z-Wave controller.

3-1 Battery Check Command

The users can also enquire the battery status of the unit by sending BATTERY_GET command via Z-Wave Controller. Once the unit receives the command, it will return BATTERY_REPORT command. The unit will send Battery_Level = 255 (0xFF) command to the Z-Wave Controller to inform that the unit is in low battery status.

BATTERY REPORT Command:

[Command Class Battery, Battery Report, Battery Level = 20%-100%]

3-2 Wakeup Command Class

The unit stays in sleep status for the majority of time in order to conserve battery power. However, it can be woken up at specified intervals by setting WAKE_UP_INTERVAL_SET command by Z-Wave Controller. After the unit wakes up, it will send Wakeup Notification Command to the node ID that requires to be reported and stay awake for 5 seconds if no WAKE_UP_NO_MORE_INFORMATION command is received. The minimum and maximum wakeup interval is 60 seconds and 194 days respectively. Allowable interval among each wakeup interval is 1 second, such as 60, 61, 62

Note: The default value is 1 day, which implies that the detector awakes and sends the Wakeup Notification Command to the set node every day.

4. Factory Default Setting

Command	Default setting
Basic Set level	99
Period of Wake Up Notification	1 day

5. Command Classes

The Door/Window Detector supports Command Classes including...

- COMMAND_CLASS_ALARM
- COMMAND_CLASS_SENSOR_BINARY
- COMMAND_CLASS_CONFIGURATION
- COMMAND_CLASS_WAKE_UP
- COMMAND_CLASS_MANUFACTURER_SPECIFIC
- COMMAND_CLASS_VERSION
- COMMAND_CLASS_ASSOCIATION
- COMMAND_CLASS_BATTERY
- For Control Other Devices---
- COMMAND_CLASS_BASIC



DECLARATION OF CONFORMITY

Is herewith confirmed to comply with the requirements set out in the Council Directive on the Approximation of the Laws of the Member States relating to Radio Equipment and Telecommunications Terminal Equipment (RED) Directive 2014/54/EU, Low-voltage Directive (2014/35/EU). For the evaluation regarding the Directives, the following standards were applied:

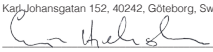
EN301489-1

EN301489-3

EN300220-1

EN300220-2

EN60950-1

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Date, Place: 17 May 2016, Göteborg