Z-Wave Protocol Implementation Conformance Statement

XLED home 2 Z-Wave

General Information

Product Identifier:	50111677101
Brand Name:	Steinel GmbH
Product Version:	HW: 7 FW: 1.00:01.00
Z-Wave Certification #:	ZC10-17045541

Product Features

Firmware Updatable	Updatable by Consumer by RF
Z-Wave Scene Type	Scene
Electric Load Type	LED
Switch Load Capacity Current	0,077
Switch Load Capacity Volt-Ampere	22,1
Switch Load Capacity Watts	14,8
Neutral Wire Required	Yes
Outdoor Use	Yes
Sensors	Luminance Motion/No Motion (Binary)
IP (Ingress Protection) Rated	Yes
Supported Notification Types	Home Security System

Z-Wave Product Information

Supports Z-Wave Beaming Technology?	Yes
Supports Z-Wave Network Security?	Yes

Z-Wave Technical Information

Z-Wave Frequency:	CEPT (Europe)
Z-Wave Product ID:	0x1A73
Z-Wave Product Type:	0x0001
Z-Wave Hardware Platform:	ZM5202
Z-Wave Development Kit Version:	6.51.09
Z-Wave Library Type:	Enhanced 232 Slave
Z-Wave Device Type / Role Type:	On/Off Power Switch / Always On Slave

Association Group Information

Group # / Max Nodes	Description
1 / 1	Z-Wave Plus Lifeline Lifeline messages - Device Reset Locally - Notifications: 0x09 (System) – Hardware failure with manufacturer proprietary code (0x03) 0x09 (System) – Software failure with manufacturer proprietary code (0x04) 0x07 (Home security) – Motion Begin event (0x08) 0x07 (Home security) – Motion End event (0x00, 0x08) - Binary Switch Report – lamp state - Multilevel Sensor Report – value of internal ambient light sensor Motion Begin and Motion End events are sent along with frames to group 3. If multichannel association is created the events are sent from motion sensor endpoint. Switch Report is sent immediately upon a change of status along with frames to group 2. If multichannel association is created the events are sent from lamp endpoint. Multilevel Sensor Report is sent a maximum of once per 1 minute (if the value has changed by least by 3%) and a minimum of once per 15 minutes (if the value has not changed). If the ambient light value is old (cannot measure because of permanent light), the value is not transmitted via lifeline. Multilevel Sensor Report can be also added to some other events to send in bulk. If multichannel association is created the events are sent from light sensor endpoint. All notifications to lifeline are sent as sensor states regardless of sensor settings and states as SLAVE_MODE, LOCAL_DISABLED and MOTION_ENABLE.
2 / 16	On/Off Control -Basic Set Group 2 is used for directly controlling Z-Wave devices via BASIC SET commands through the evaluation of movement and light as with internal use (so that all of these devices work together). This is intended for use especially with third-party devices that do not implement reactions for motion events. BASIC_SET and similar Z-Wave commands are not retransmitted intentionally to slaves and must be sent to slave devices via the controlling device simultaneously. Only for use in master-slave system, multidevice control is not possible. Group 2 is evaluated and frames are transmitted there also in SLAVE_MODE, regardless of LOCAL_DISABLED state and when MOTION_ENABLE is off (not using internal motion sensor just reacts for remote motion events then). If multichannel association is created the events are send from motion sensor endpoint.
3 / 16	Motion begin/end - Notifications: 0x07 (Home security) – Motion Begin event (0x08) 0x07 (Home security) – Motion End event (0x00, 0x08) Group 3 sends MOTION_BEGIN and MOTION_END frames. MOTION_BEGIN frame = Notification 0x07 (Home security) – Motion detection without location (0x08) MOTION_END frame = Notification 0x07 (Home security) – After first motion detection MOTION_BEGIN is sent. If continual movement is detected MOTION_BEGIN is sent every 1 minute repeatedly. When motion

4 / 16	Ambient light - Multilevel Sensor Report – value of internal ambient light sensor Ambient Light via group 4 is intended to substitute locally measured LUX values in target devices – so that the network can have one source of ambient light value. The frame rate is a value being sent a maximum of once per 2.5 minutes, and a minimum of once per 15 minutes. When device already uses remote Ambient light value, then this value is also retransmitted to group 4. All devices in such a group should have the same LIGHT (threshold) settings in order that night mode is detected at the same time. If multichannel association is created the events are send from light sensor endpoint.

Supported Command Classes (20):

- Application Status
- Association Group Info
- Association V2
- Basic
- Configuration
- Device Reset Locally
- Firmware Update Meta-Data V3
- Manufacturer Specific
- Multi-Channel Association V3
- Multi-Channel V4
- Node Naming
- Notification V4
- Powerlevel
- Scene Activation
- Scene Actuator Conf
- Sensor Multilevel V4
- Switch All
- Switch Binary
- Version V2
- Z-Wave Plus Info V2

Controlled Command Classes (1):

- Basic