EnOcean Equipment Profiles

REVISION HISTORY

Ver.	Editor	Change	Date
2.6.8	NM	Last xml edition of the EEP-Specification	Dec 31, 2017

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A5-11: Controller Status

RORG	A5	**4BS Telegram**
FUNC	11	Controller Status
TYPE	05	Dual-Channel Switch Actuator (BI-DIR)

Submitter: Nanjing Putian Telecommunications CO., Ltd.,

Description
This EEP is used for sending the latest relay status (including current working mode) of a dual-channel switch actuator. The telegram is sent when the relay status changes or a gateway request is received. Each time the gateway is powered on, it will send a request telegram to request that the actuator reports its latest relay status, while in normal working state, it won't send any telegram to the actuator and only receive the relay status from the actuator.

1) Gateway first power on:

2) When the actuator receives a switch telegram and its status changes:

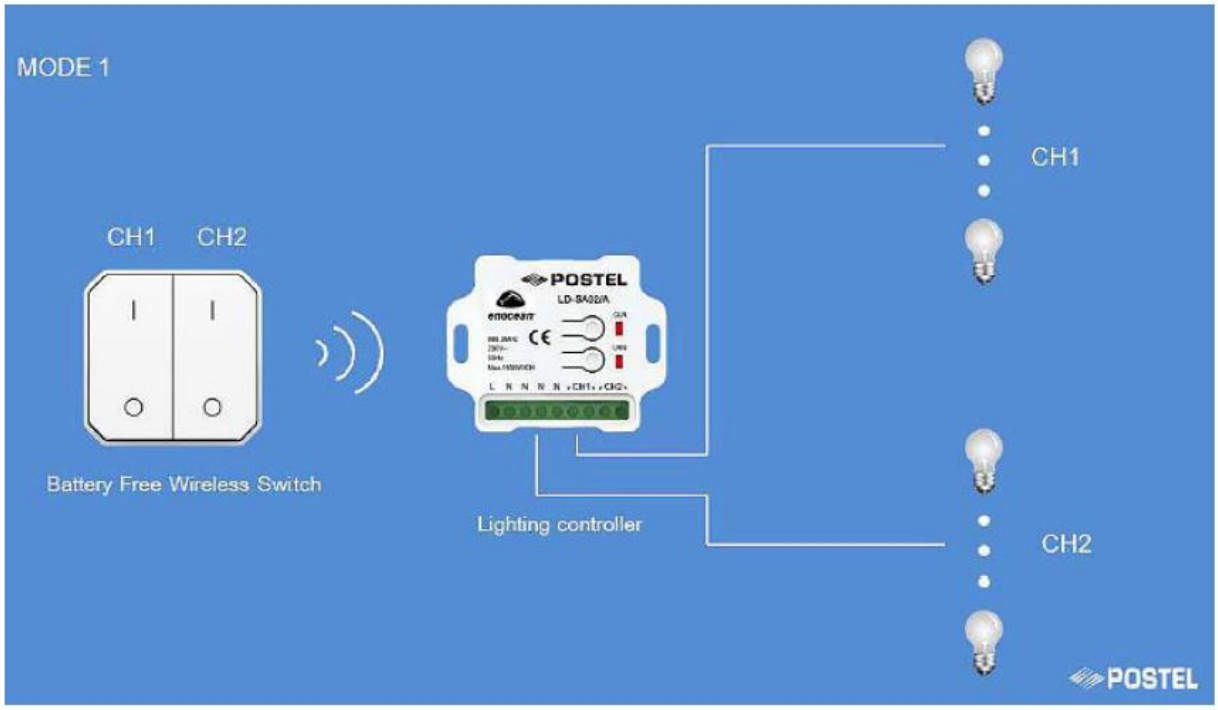
Data exchange
Direction: bi-directional
Addressing: broadcast
Communication trigger: event & request
Communication interval: -
Trigger event: change of relay status
Tx delay: -
Rx timeout: -

Teach-in
Teach-in method: 4BS teach-in 2

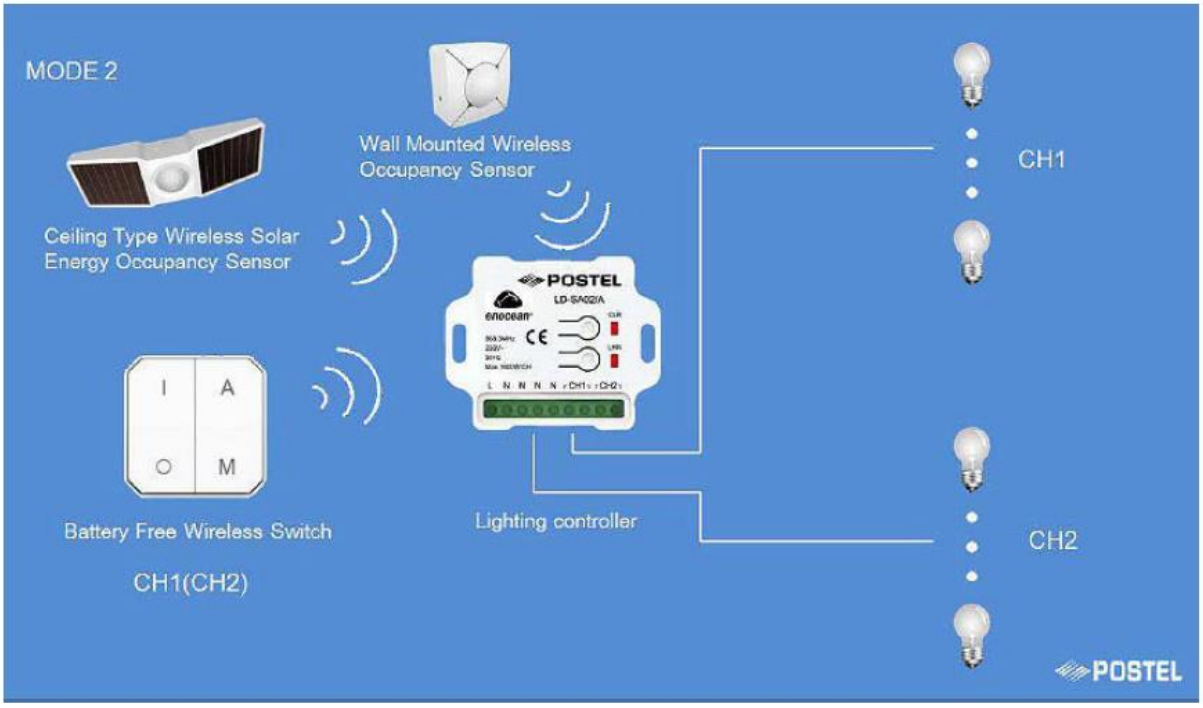
Security
Encryption supported: no
Security level format: -

Appendix
Operation mode description:

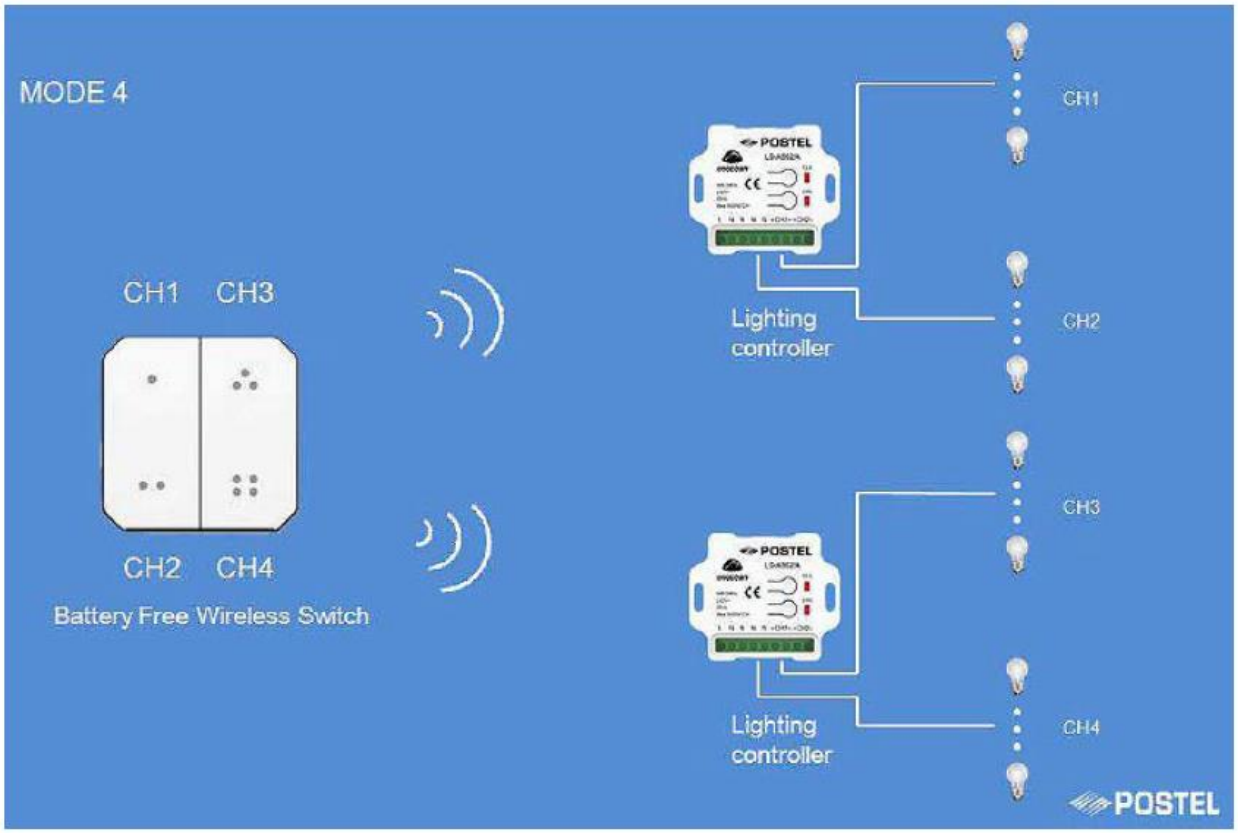
Mode 1:
One switch controls one dual-channel actuator. Each rock controls one channel.
I: power ON, O: power OFF



Mode 2:
In this mode, actuator can be controlled by both switch and occupancy sensor, also can be set "Auto" control by occupancy sensor or "Manual" control by switch through button "A" or "M". Each channel can be controlled independently.



Mode 4:
One dual-rock switch button can control two dual-channel actuators as 4 channel lighting in all. We can control one channel only through trigger the rock angle.



DIRECTION-1 = Gateway request telegram; from gateway to actuator
DIRECTION-2 = Actuator status report; from actuator to gateway

DIRECTION-1

Offset	Size	Bitrange	Data	ShortCut	Description	Valid Range	Scale	Unit
0	28	DB3.7...DB0.4	Not Used (= 0)					
28	1	DB0.3	LRN Bit	LRNB	LRN Bit	Enum: 0: Teach-in telegram 1: Data telegram		
29	2	DB0.2...DB0.1	Not Used (= 0)					
31	1	DB0.0	Message Type	MT	Defines if the telegram is a request or contains data	Enum: 0: Request		

DIRECTION-2

Offset	Size	Bitrange	Data	ShortCut	Description	Valid Range	Scale	Unit
0	25	DB3.7...DB0.7	Not Used (= 0)					
25	3	DB0.6...DB0.4	Working Mode	WM	Actuators current working mode	Enum: 0b001: mode 1 0b010: mode 2 0b011: mode 3 0b100: mode 4		
28	1	DB0.3	LRN Bit	LRNB	LRN Bit	Enum: 0: Teach-in telegram 1: Data telegram		
29	2	DB0.2...DB0.1	Relay Status	RS	Actuators current relay status Bit 0.1: CH1 Bit 0.2: CH2	Enum: 0b00: CH1 off, CH2 off 0b01: CH1 on, CH2 off 0b10: CH1 off, CH2 on 0b11: CH1 on, CH2 on		
31	1	DB0.0	Message Type	MT	Defines if the telegram is a request or contains data	Enum: 1: Status Report		