Batteryless Wall Switches for ZigBee

EWSxZ / EWSxZG



EWSxZ / EWSxZG Easyfit Wall Switches are universal energy harvesting wireless switches for systems communicating based on the 2.4 GHz ZigBee Green Power radio standard (ZGP).

They are based on the maintenance free, self-powered pushbutton transmitter module PTM 215ZE or PTM 216Z and delivered as single rocker or double rocker variant using the European 55 x 55 form factor for frame inserts.

The used PTM modules contain an electro-dynamic energy transducer which is actuated by the rocker movement. Whenever a rocker is pushed down or released, electrical energy is created and ZGP radio frame is transmitted identifying the rocker status (pushed or released).

„Long" or „Short" rocker press (the time between pushing and releasing the rocker) can be calculated by the receiver. This enables switching, dimming control or jalousie control including slat action.

Manufacturer	Product Program
BERKER	S.1, B.1, B.3, B.7 Glas
GIRA	Standard 55, E2, E3, Event, Esprit, ClassiX
Jäger Direkt	Opus 55 Inform, Opus 55 Kubus, Opus 55 Fusion
JUNG	AS 500, A 500, A plus, A creation, A creation Glas
MERTEN	1-M, M-Smart, M-Arc, M-Plan, M-Creativ, M-Pure

Ordering Information

TYPE	ORDERING CODE
Single Wall Switch EWSSZ	**E8271-A270**
Double Wall Switch EWSDZ	**E8271-A280**
Single Wall Switch EWSSZG	**E8271-A276**
Double Wall Switch EWSDZG	**E8271-A286**

Feature Overview

Radio Transmitter	EWSxZ: PTM 215ZE module, EWSxZG: PTM216Z
Energy Source	Electro-dynamic energy generator, maintenance free
Frequency / Protocol	2.4 GHz / ZigBee Green Power (ZGP)
Range	Within one room (up to 10 m line of sight)
Channels	2 or 4 (single or double rocker with medial position, pressed/released)
Dimensions of Rocker	50 x 50 mm
Dimensions of Frame Insert	55 x 55 mm
Dimensions of Central Plate	71 x 71 mm
Dimensions of Frame	81 x 81 mm
Total Installation Height	14 mm (frame lies directly against the wall)
Mounting	Gluing (double-sided mounting film enclosed), Screwing onto flat surface
Operating conditions	Temperature: -25 … +65°C Humidity: 0 … 95% r.h., non-condensing (dry environment only)
Lifetime	> 50.000 actuations (switching cycles) according to EN 60669 / VDE 0632
Approvals	RED, FCC, ISED
Packaging	Each unit packed in a bag, 10 units packed in a card box