WIRELESS DEVICES



Short Range Wireless Devices

- EnOcean® enabled wireless relay receivers work in conjunction with many switching devices that are EnOcean® enabled with 902 MHz transmitters.
- Wireless wall switches, occupancy sensors, thermostats, key card switches, patio
 and door switches are all devices which can activate the RIB® wireless control
 relays by using EnOcean's "energy harvesting" technology. Energy harvesting
 refers to the process by which energy is captured and stored, then used to
 transmit a wireless signal, which in turn is received by the RIB® wireless relay.



WIRELESS CONTROL RELAYS

		COIL VOLTAGE								
MODEL#	(L)	AC/DC	AC	RELAYS	CONTACTS	REPEAT FUNCTION	DRY CONTACT INPUT	BALLAST SIZE ENCLOSURE	NOTES	SPEC PAGE
RIBW01B-EN3	•		120	1	SPDT	•	•		NEW	156
RIBW208B-EN3	•		208	1	SPDT	•	•		NEW	156
RIBW240B-EN3	•		240	1	SPDT	•	•		NEW	156
RIBW277B-EN3	•		277	1	SPDT	•	•		NEW	156
RIBW24B-EN3		24		1	SPDT	•	•		NEW	156
RIBW01C-EN3	•		120	1	SPST	•		•	NEW	157
RIBW02C-EN3	•		208-277	1	SPST	•		•	NEW	157

WIRELESS TRANSMITTERS

MODEL#	(L)	POWER INPUT	ENOCEAN® ENERGY HARVESTING	FREQUENCY	COLOR	WIRELESS SWITCH COVER PLATE ¹	NOTES	SPEC PAGE
WWS-EN3		Self-Powered	•	902 MHz	White	WSTP-W	NEW	157
WDWS-EN3		Self-Powered	•	902 MHz	White		NEW	158

- (I) = UL Listed : UL916 Energy Management, UL864 Fire ; USA & Canada
- 1 = Sold separately
- * For other loads, see data sheet.

Enclosed EnOcean® Enabled Wireless Relay Transceiver / Repeater 20 Amp SPDT, 120 Vac Power, with Dry Contact Input

RIBW208B-EN3

Enclosed EnOcean® Enabled Wireless Relay Transceiver / Repeater 20 Amp SPDT, 208 Vac Power, with Dry Contact Input

RIBW240B-EN3

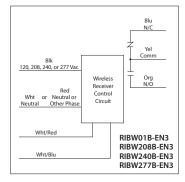
Enclosed EnOcean® Enabled Wireless Relay Transceiver / Repeater 20 Amp SPDT, 240 Vac Power, with Dry Contact Input

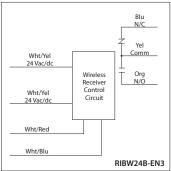
RIBW277B-EN3

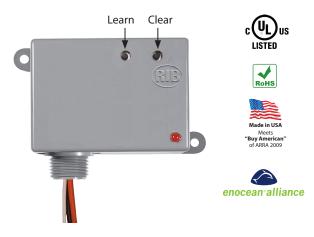
Enclosed EnOcean® Enabled Wireless Relay Transceiver / Repeater 20 Amp SPDT, 277 Vac Power, with Dry Contact Input

RIBW24B-EN3

Enclosed EnOcean® Enabled Wireless Relay Transceiver / Repeater 20 Amp SPDT, 24 Vac/dc Power, with Dry Contact Input







RELAY HAS BUILT-IN REPEATER FUNCTION. RELAY RECEIVES SIGNAL FROM WIRELESS SWITCH TRANSMITTER AND REBROADCASTS THE SIGNAL TO THE NEXT RELAY RECEIVER.

SPECIFICATIONS

Relays & Contact Type: One (1) SPDT Continuous Duty Coil Expected Relay Life: 10 million cycles minimum mechanical

Operating Temperature: -30 to 140° F

Humidity Range: 5 to 95% (noncondensing)

Red LED: Relay Status / Learn Mode Status (Flashing) **Dimensions:** 2.30" x 3.20" x 1.80" with .50" NPT Nipple

Wires: 16", 600V Rated

Approvals: UL Listed, UL916, C-UL, RoHS, **Agency Compliance:** FCCID: SZV-TCM3200 IC: 5713A-TCM3200

Housing Rating: UL Accepted for Use in Plenum, NEMA 1

Gold Flash: No. Override Switch: No Frequency: 902 MHz Receiver Sensitivity: -93 dBm typical Conducted Power: 5 mW typical

Built-in Switch Modes: Alarm, Repeater, Delay, Rocker,

Momentary, and Toggle

Contact Ratings:

20 Amp Resistive @ 277 Vac 20 Amp Ballast @ 277 Vac

16 Amp Electronic Ballast @ 277 Vac (N/O) 10 Amp Tungsten @ 120 Vac (N/O)

770 VA Pilot Duty @ 120 Vac 1,110 VA Pilot Duty @ 277 Vac

2 HP @ 277 Vac

1 HP @ 120 Vac

Power Input Ratings:

73 mA @ 120 Vac ; 60 Hz (RIBW01B-EN3) 80 mA @ 208 Vac; 60 Hz (RIBW208B-EN3) 80 mA @ 240 Vac; 60 Hz (RIBW240B-EN3) 80 mA @ 277 Vac; 60 Hz (RIBW277B-EN3) 139 mA @ 24 Vac (RIBW24B-EN3) 69 mA @ 24 Vdc (RIBW24B-EN3)

Notes:

• Compatible with Enocean® 902 MHz Switches/Transmitters.

• Typical range: 50-150 ft.

• Open area transmission could be farther. Consult factory for more information.

 Repeater function only rebroadcasts original EnOcean® transmission. Up to two repeaters can be used.

• Version 1.5 firmware or later implements Functional Devices, Inc.'s EnOcean® Manufacturer ID of 0x055.

• For setup instructions, see website for -EN3 Series Application Manual: $www.functional devices.com/pdf/bulletins/B1867_393231.pdf$ or scan QR code with your smart phone.

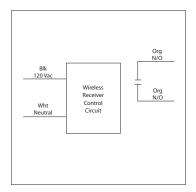


APPLICATION FOR WIRELESS CONTROL & FEEDBACK IN A BUILDING AUTOMATION SYSTEM



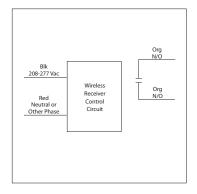
RIBW01C-EN3

Enclosed EnOcean® Enabled Wireless Relay Receiver / Repeater 5 Amp SPST-N/O, 120 Vac Power Input



RIBW02C-EN3

Enclosed EnOcean® Enabled Wireless Relay Receiver / Repeater 5 Amp SPST-N/O, 208-277 Vac Power Input













SMALLER SIZE DESIGN TO FIT INSIDE BALLAST HOUSING OF FLUORESCENT LIGHT FIXTURE.

SPECIFICATIONS

Relays & Contact Type: One (1) SPST Continuous Duty Coil Expected Relay Life: 10 million cycles minimum mechanical

Operating Temperature: -30 to 140° F

Humidity Range: 5 to 95% (noncondensing)

Red LED: Relay Status / Learn Mode Status (Flashing)

Dimensions: 4.60" x 1.20" x 1.70" Wires: 16", 600V Rated Approvals: UL Listed, UL916, C-UL Agency Compliance: FCCID: SZV-TCM3200

IC: 5713A-TCM3200

Gold Flash: No Override Switch: No Frequency: 902 MHz Receiver Sensitivity: -93 dBm typical Conducted Power: 5 mW typical

Built-in Switch Modes: Alarm, Repeater, Delay, Rocker, Momentary,

and Toggle

Contact Ratings:

- 5 Amp Ballast @ 120/277 Vac 5 Amp Tungsten @ 120 Vac
- 5 Amp Electronic Ballast @ 120 Vac

Power Input Ratings:

75 mA @ 120 Vac ; 60 Hz (RIBW01C-EN3) 100 mA @ 208-277 Vac; 60 Hz (RIBW02C-EN3)



Notes:

- Compatible with Enocean® 902 MHz Switches/Transmitters.
- Typical range: 50-150 ft.
- Open area transmission could be farther. Consult factory for more information
- Repeater function only rebroadcasts original EnOcean® transmission. Up to two repeaters can be used.
- Version 1.5 firmware or later implements Functional Devices, Inc.'s EnOcean® Manufacturer ID of 0x055.
- For setup instructions, see website for -EN3 Series:
- www.functionaldevices.com/pdf/bulletins/B1867 393231.pdf or scan QR code with your smart phone.

WIRELESS ROCKER SWITCH TRANSMITTER & COVER PLATE

WWS-EN3

EnOcean® Enabled Wireless Wall Switch Transmitter Switch, 902 MHz

Switch Colors Available:

White

WSTP-W

Cover Plate Colors Available:



White







SPECIFICATIONS

Operating Modes: On/Off, Toggle, Scene control **Power Supply:** Powered by finger press

(Electrodynamic Energy Harvester)

Frequency: 902 MHz

Antenna: Integrated antenna, 15cm Transmission Power: Max. 10mw EIRP

Energy Bowtravel/Operating Force: 50,000 actuations tested to

EN60669 / VDE 0632

Operating Temperature: -25 to 65° C

Relative Humidity 5 to 92% (noncondensing)

Dimensions: 2.75" x 4.50" x 0.62"

Weight: 3 oz.

Agency Compliance: FCCID: SZV-PTM 210U

IC: 5713A-PTM210U

- Control one load or one group of loads with a single rocker style Wireless Switch Transmitter.
- Typical range: 50-150 ft.
- Open area transmission could be farther. Consult factory for more information.
- · Switch cover plate sold separately.
- Do not use metal switch plate covers due to interference with wireless signal.
- · Mount with screws or double sided tape.
- For use with EN3 Series Relays.
- EEP F6-02-02

WDWS-EN3

EnOcean® Enabled Wireless Solar Door / Window Sensor, 902 MHz

SPECIFICATIONS

Charge Time before Linking: 2.7 hours @ 10 lux

3.7 minutes @ 200 lux

Light Required to Sustain Operation: 15 lux for 6 actuations/hour

50 lux for 30 actuations/hour 100 lux for 60 actuations/hour

Charge Time for Full Charge: 21 hours @ 200 lux (after startup)

42 hours @ 200 lux (cold start) Operating Life in Darkness (after full charge): 174 hours heartbeat only

67 hours @ 10 actuations/hour

10 hours @ 100 actuations/hour

Maximum Sensor Gap: 0.25" (6.4mm)

Dimensions (Sensor): 3.15" L x 0.83" W x 0.59" D (80mm x 21mm x 15mm) **Dimensions (Magnet):** 3.15" L x 0.47" W x 0.50" D (80mm x 12mm x 13mm)

Weight (Total): 0.97 oz. (27.5 g) **Environment:** Indoor use only 32° to 131° F (0° to 55° C)

5 to 95% relative humidity (noncondensing)

Agency Compliance: FCC ID: SZV-STM 320U

IC: 5713A-STM 320U

Notes:

- Typical range: 80 ft.
- Open area transmission could be farther. Consult factory for more information.
- Only for use with -EN3 Series relays.
- EEP D5-00-01





www.functionaldevices.com/pdf/bulletins/B1877_393233.pdf or scan QR code with your smart phone.

