

# Product data sheet

Specifications



Wireless and batteryless transmitter,  
Harmony XB5R, push button,  
plastic, green, 22mm, spring return,  
marked I

ZB5RTA331

**Product availability: Stock - Normally stocked in distribution facility**

## Main

Range of Product	Harmony XB5
Product or Component Type	Wireless and batteryless transmitter
Device short name	XB5R
Bezel material	Dark grey plastic
Fixing collar material	Plastic
Mounting diameter	0.9 in (22 mm)
Transmission frequency	2405 MHz
emission class	5M00G7W
Antenna type	Omnidirectional

## Complementary

Shape of signaling unit head	Round
Type of operator	spring return push-button with transmitter
Operator profile	Green flush, I white)
Max power consumption in W	1 mW
Number of Channels	16
Modulation technique	O-QPSK
Bandwidth	5 MHz
Antenna gain	0 dBi
Embedding Depth	1.7 in (42 mm)
CAD overall height	1.6 in (41.5 mm)
CAD overall width	1.2 in (30 mm)
CAD overall depth	1.7 in (43 mm)
Net Weight	0.099 lb(US) (0.045 kg)
Operating travel	0.2 in (4.3 mm) total travel)
Operating force	10 N C/O changing electrical state
Mechanical robustness	Free fall resistance 1000 mm IEC 60068-2-32
Standards	CSA C22.2 No 14 IEC 60947-1 IEC 60947-5-1 UL 508

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

<b>Radio agreement</b>	ANATEL ARIB T66 FCC ICASA RSS
<b>Communication port protocol</b>	Zigbee green power 2.4 GHz IEEE 802.15.4
<b>Maximum sensing distance</b>	328.08 ft (100 m) in free field 82.02 ft (25 m) transmitter in a plastic box type XAL D and receiver in a metal enclosure 984.3 ft (300 m) transmitter in box type XAL D, receiver in metal enclosure and use relay-antenna
<b>Acquisition time</b>	2 ms
<b>Response time</b>	< 2 ms
<b>Emission Power</b>	3 mW
<b>Fixing mode</b>	Fixing nut beneath head 17.7...21.2 lbf.in (2...2.4 N.m)
<b>Station name</b>	XALD 1...5 cut-outs XALK 2...5 cut-outs
<b>Electrical composition code</b>	PW1

## Environment

<b>Ambient Air Temperature for Storage</b>	-40...158 °F (-40...70 °C)
<b>Ambient Air Temperature for Operation</b>	-40...158 °F (-40...70 °C)
<b>Relative humidity</b>	95 % -40...158 °F (-40...70 °C) without condensation
<b>IP degree of protection</b>	IP66 IEC 60529 front face) IP67 IEC 60529 front face) IP69 IEC 60529 front face) IP69K IEC 60529 front face)
<b>IK degree of protection</b>	IK03 conforming to IEC 50102
<b>Mechanical durability</b>	1000000 cycles
<b>Shock resistance</b>	25 gn 6 ms) 6000 shocks IEC 60068-2-27 30 gn 18 ms) half sine wave acceleration IEC 60068-2-27 50 gn 11 ms) half sine wave acceleration IEC 60068-2-27
<b>Vibration resistance</b>	5 gn (f= 11...500 Hz) conforming to IEC 60068-2-6 +/- 10 mm (f= 2...11 Hz) conforming to IEC 60068-2-6
<b>Electromagnetic compatibility</b>	Electrostatic discharge immunity test - test level: 8 kV (in free air (in insulating parts)) conforming to IEC 61000-4-2 Electrostatic discharge immunity test - test level: 4 kV (on contact (on metal parts)) conforming to IEC 61000-4-2 Susceptibility to electromagnetic fields - test level: 20 V/m (80...3000 MHz) conforming to IEC 61000-4-3 Susceptibility to electromagnetic fields - test level: 6 V/m (3000...6000 MHz, distance = 20 m) conforming to IEC 61000-4-3
<b>Product Certifications</b>	UL BT 2006/95/EC CSA C-tick GOST
<b>Directives</b>	1999/5/EC - R&TTE directive 2004/108/EC - electromagnetic compatibility

## Ordering and shipping details

<b>Category</b>	US1000I22470
<b>Discount Schedule</b>	000I
<b>GTIN</b>	3606480334603

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Returnability	Yes
Country of origin	FR

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## Packing Units

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Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	1.34 in (3.400 cm)
Package 1 Width	2.09 in (5.300 cm)
Package 1 Length	3.43 in (8.700 cm)
Package weight(Lbs)	1.340 oz (38.000 g)
Unit Type of Package 2	S01
Number of Units in Package 2	25
Package 2 Height	5.91 in (15.000 cm)
Package 2 Width	5.91 in (15.000 cm)
Package 2 Length	15.75 in (40.000 cm)
Package 2 Weight	2.526 lb(US) (1.146 kg)

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## Contractual warranty

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Warranty	18 months
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Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing "Use Better, Use Longer, Use Again" campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

## Environmental footprint

Carbon footprint (kg CO2 eq, Total Life cycle)

1

## Use Better

### Materials and Substances

Packaging made with recycled cardboard Yes

Packaging without single use plastic Yes

[EU RoHS Directive](#) Pro-active compliance (Product out of EU RoHS legal scope)

SCIP Number E1d47e89-a4e1-4f33-a0c0-2fe5c9179aa4

California proposition 65 WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](#)

## Use Again

### Repack and remanufacture

Circularity Profile [End of Life Information](#)

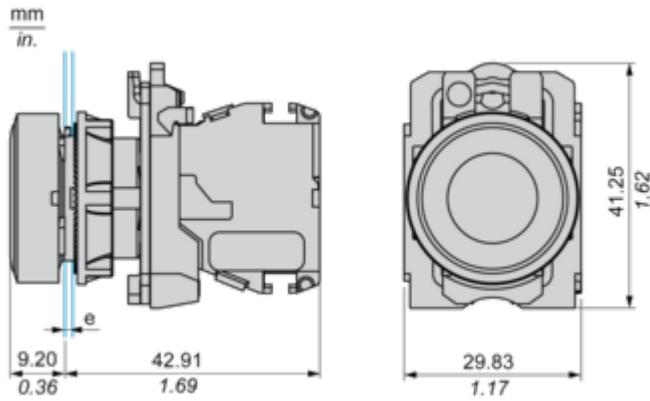
Take-back No

WEEE Label The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

## Dimensions Drawings

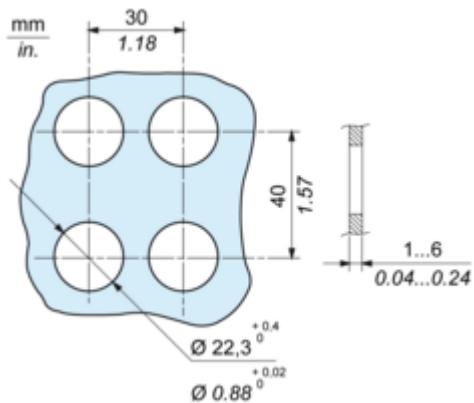
Wireless and Batteryless Pushbutton - Transmitter

## With Plastic Pushbutton without Cap



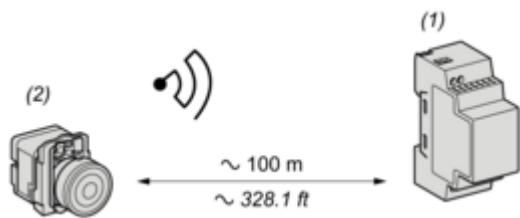
e: panel thickness 1 to 6 mm / 0.039 to 0.24 in.

## Mounting and Clearance

Transmitter Mounting

**Transmitter Clearance in Free Field Unobstructed**

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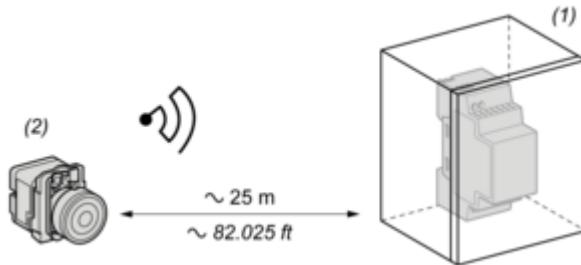


(1): Receiver

(2): Transmitter

**Transmitter Clearance in a Metal Enclosure**

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(1): Metal enclosure

(2): Transmitter

The range is reduced if the transmitter is placed in a metal enclosure (reduction factor:approx 10%)

Glass window	10...20 %
Plaster wall	30...45 %
Brick wall	60 %
Concrete wall	70...80 %
Metal structure	50...100 %

## Technical Illustration

## Dimensions

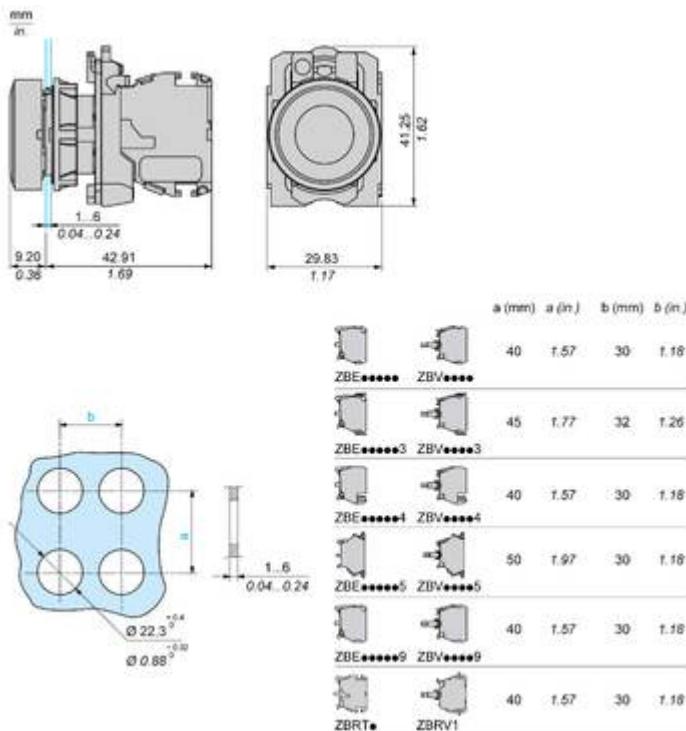


Image of product / Alternate images

Alternative

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