

# Product data sheet

Specifications



Wireless and batteryless transmitter, Harmony XB5R, push button, metal, green, 22mm, spring return

ZB4RTA3

Product availability: Stock - Normally stocked in distribution facility

Price\*: 130.00 USD

## Main

Range Of Product	Harmony XB5
Product Or Component Type	Wireless and batteryless transmitter
Device Short Name	XB5R
Bezel Material	Chromium plated metal
Fixing Collar Material	Zamak
Mounting Diameter	0.87 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
Max Power Consumption In W	1 mW
Number Of Channels	16
Modulation Technique	O-QPSK
Bandwidth	5 MHz
Antenna Gain	0 dBi
Embedding Depth	1.65 in (42 mm)
Cad Overall Height	1.63 in (41.5 mm)
Cad Overall Width	1.18 in (30 mm)
Cad Overall Depth	1.69 in (43 mm)
Net Weight	0.10 lb(US) (0.045 kg)
Operating Travel	0.17 in (4.3 mm) total travel)
Operating Force	10 N C/O changing electrical state
Mechanical Robustness	Free fall resistance 1000 mm EN/IEC 60068-2-32

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

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Standards	CSA C22.2 No 14 EN/IEC 60947-1 EN/IEC 60947-5-1 UL 508
Radio Agreement	ANATEL ARIB T66 FCC ICASA RSS
Communication Port Protocol	Zigbee green power 2.4 GHz IEEE 802.15.4
Maximum Sensing Distance	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 984.25 ft (300 m) transmitter in box type XAL D, receiver in metal enclosure and use relay-antenna
Acquisition Time	2 ms
Response Time	< 2 ms
Emission Power	3 mW
Fixing Mode	Fixing screw beneath head 7.08...10.62 lbf.in (0.8...1.2 N.m)
Electrical Composition Code	PW1

## Environment

Protective Treatment	TH
Ambient Air Temperature For Storage	-40...158 °F (-40...70 °C)
Ambient Air Temperature For Operation	-40...158 °F (-40...70 °C)
Relative Humidity	95 % -40...158 °F (-40...70 °C) without condensation
Ip Degree Of Protection	IP66 IEC 60529 front face) IP67 IEC 60529 front face) IP69 IEC 60529 front face) IP69K IEC 60529 front face)
Ik Degree Of Protection	IK03 conforming to IEC 50102
Mechanical Durability	1000000 cycles
Shock Resistance	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
Vibration Resistance	5 gn 11...500 Hz)IEC 60068-2-6 +/- 10 mm 2...11 Hz)IEC 60068-2-6
Electromagnetic Compatibility	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
Product Certifications	BT 2006/95/EC C-tick UL GOST CSA
Directives	1999/5/EC - R&TTE directive 2004/108/EC - electromagnetic compatibility

## Ordering and shipping details

Category	US1000I22470
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Discount Schedule	000I
Gtin	3606480334504
Returnability	Yes
Country Of Origin	US

## Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	2.09 in (5.3 cm)
Package 1 Width	1.34 in (3.4 cm)
Package 1 Length	3.43 in (8.7 cm)
Package 1 Weight	3.28 oz (93.0 g)
Unit Type Of Package 2	S01
Number Of Units In Package 2	25
Package 2 Height	5.91 in (15.0 cm)
Package 2 Width	5.91 in (15.0 cm)
Package 2 Length	15.75 in (40.0 cm)
Package 2 Weight	5.56 lb(US) (2.523 kg)

## Contractual warranty

Warranty	18 months
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Sustainability



**Green Premium™** label is Schneider Electric’s commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

[Learn more about Green Premium >](#)

[Guide to assess a product’s sustainability >](#)



Transparency   RoHS/REACH

Well-being performance

 Mercury Free

 RoHS Exemption Information   [Yes](#)

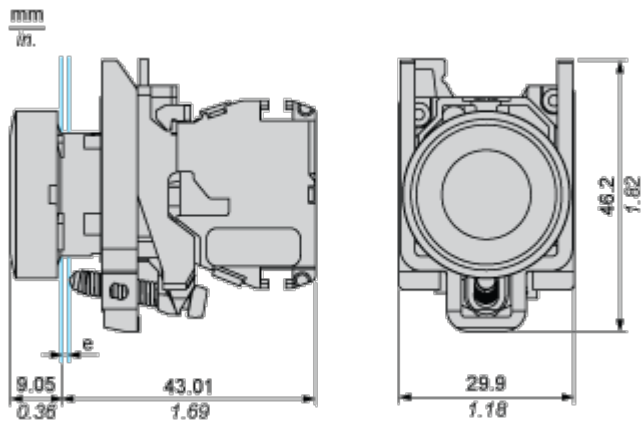
Certifications & Standards

Reach Regulation	<a href="#">REACH Declaration</a>
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	<a href="#">China RoHS declaration</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
Circularity Profile	<a href="#">End of Life Information</a>
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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>

Dimensions Drawings

Wireless and Batteryless Pushbutton - Transmitter

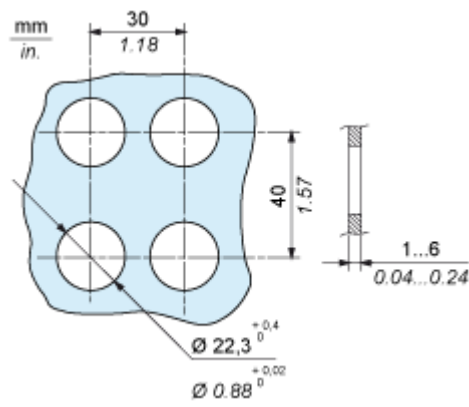
With Metal Pushbutton without Cap



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

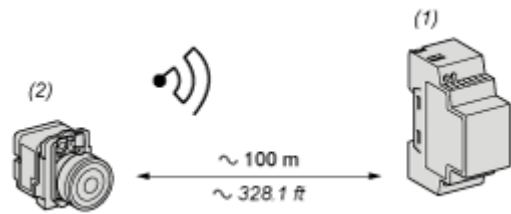
Mounting and Clearance

Transmitter Mounting



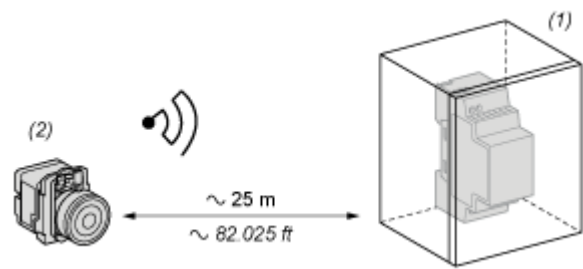
Transmitter Clearance in Free Field Unobstructed

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- (1): Receiver
- (2): Transmitter

Transmitter Clearance in a Metal Enclosure



- (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 %