Product data sheet

Specification





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

ZB4RTA3

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	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	42 mm		
Cad Overall Height	41.5 mm		
Cad Overall Width	30 mm		
Cad Overall Depth	43 mm		
Net Weight	0.045 kg		
Operating Travel	4.3 mm (total travel)		
Operating Force	10 N C/O changing electrical state		
Mechanical Robustness	Free fall resistance 1000 mm conforming to EN/IEC 60068-2-32		
Standards	CSA C22.2 No 14 EN/IEC 60947-1 EN/IEC 60947-5-1		

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Radio Agreement	ANATEL	
naaro ngreement	ARIB T66	
	FCC	
	ICASA	
	RSS	
Communication Port Protocol	Zigbee green power at 2.4 GHz conforming to IEEE 802.15.4	
Maximum Sensing Distance	100 m in free field	
	25 m transmitter in a plastic box type XAL D and receiver in a metal enclosure	
	300 m transmitter in box type XAL D, receiver in metal enclosure and use relay- antenna	
	antenna	
Acquisition Time	2 ms	
Response Time	< 2 ms	
Emission Power	3 mW	
Fixing Mode	Fixing screw beneath head: 0.81.2 N.m	
Electrical Composition Code	PW1	
Environment		
Protective Treatment	тн	
Ambient Air Temperature For Storage	-4070 °C	
Ambient Air Temperature For Operation	-4070 °C	
Relative Humidity	95 % at -4070 °C without condensation	
p Degree Of Protection	IP66 (front face) conforming to IEC 60529	
	IP67 (front face) conforming to IEC 60529	
	IP69 (front face) conforming to IEC 60529	
	IP69K (front face) conforming to IEC 60529	
k Degree Of Protection	IK03 conforming to IEC 50102	
Mechanical Durability	1000000 cycles	
Shock Resistance	25 gn (duration = 6 ms) for 6000 shocks conforming to IEC 60068-2-27	
	30 gn (duration = 18 ms) for half sine wave acceleration conforming to IEC	
	60068-2-27 50 gn (duration = 11 ms) for half sine wave acceleration conforming to IEC	
	60068-2-27	
Vibration Resistance	5 gn (f= 11500 Hz) conforming to IEC 60068-2-6	
	+/- 10 mm (f= 211 Hz) conforming to 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 (803000 MHz)	
	conforming to IEC 61000-4-3	
	Susceptibility to electromagnetic fields - test level: 6 V/m (30006000 MHz, distance	
	= 20 m) conforming to IEC 61000-4-3	
Product Certifications	BT 2006/95/EC	
	C-Tick	
	UL GOST	

Packing Units

Directives

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	5.3 cm

1999/5/EC - R&TTE directive 2004/108/EC - electromagnetic compatibility

Package 1 Width	3.4 cm
Package 1 Length	8.7 cm
Package 1 Weight	93.0 g
Unit Type Of Package 2	S01
Number Of Units In Package 2	25
Package 2 Height	15.0 cm
Package 2 Width	15.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	2.523 kg

Contractual warranty

Warranty 18 months



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Transparency RoHS/REACh

Well-being performance



Mercury Free



Rohs Exemption Information

Yes

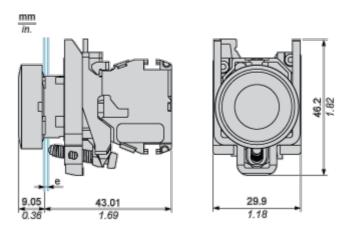
Certifications & Standards

Reach Regulation	REACh Declaration	
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)	
China Rohs Regulation	China RoHS declaration	
Environmental Disclosure	Product Environmental Profile	
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins	
Circularity Profile	End of Life Information	

Dimensions Drawings

Wireless and Batteryless Pushbutton - Transmitter

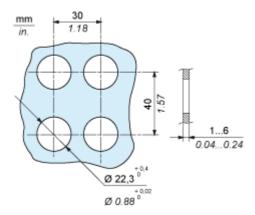
With Metal Pushbutton without Cap



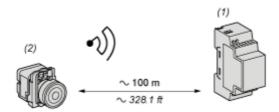
e: panel thickness 1 to 6 mm / 0.039 to 0.24 in.

Mounting and Clearance

Transmitter Mounting

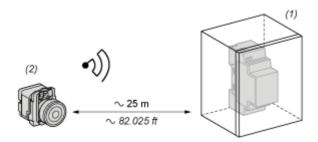


Transmitter Clearance in Free Field Unobstructed



- (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%)

The range is read	ood ii tiio tidiic
Glass window	1020 %
Plaster wall	3045 %
Brick wall	60 %
Concrete wall	7080 %
Metal structure	50100 %