Product data sheet

Specification





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

ZB4RTA5

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	Yellow 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 IEC 60068-2-32	
Standards	CSA C22.2 No 14 IEC 60947-1 IEC 60947-5-1	

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UL 508

Radio Agreement	ANATEL ARIB 166 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	
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	
lp 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	

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lk 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	UL CSA C-Tick GOST BT 2006/95/EC
Directives	1999/5/EC - R&TTE directive 2004/108/EC - electromagnetic compatibility

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	8.6 cm

Package 1 Width	3.4 cm	
Package 1 Length	5.3 cm	
Package 1 Weight	93.0 a	

Contractual warranty

Warranty 18 months



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Transparency RoHS/REACh

Well-being performance



Mercury Free



Rohs Exemption Information

Yes

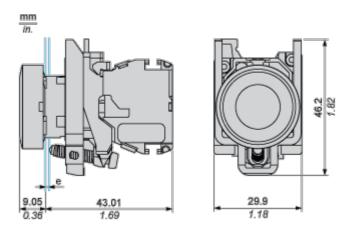
Certifications & Standards

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

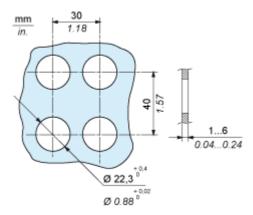


e: panel thickness 1 to 6 mm / 0.039 to 0.24 in.

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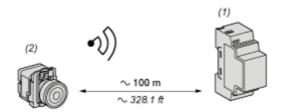
Mounting and Clearance

Transmitter Mounting



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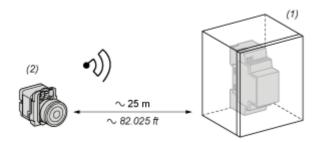
Transmitter Clearance in Free Field Unobstructed



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

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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	1020 %
Plaster wall	3045 %
Brick wall	60 %
Concrete wall	7080 %
Metal structure	50100 %