

Wireless and batteryless transmitter, Harmony XB5R, push button, plastic, blue, 22mm, spring return

ZB5RTA6

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	22 mm				
Transmission frequency	2405 MHz				
Emission class	5M00G7W				
Antenna type	Omnidirectional				

Complementary

Complementary					
Shape of signaling unit head	Round				
Operator profile	Blue 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 UL 508				
Radio agreement	ANATEL				

	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
Acquisition time	2 ms
Response time	< 2 ms
Emission power	3 mW
Fixing mode	Fixing nut beneath head: 22.4 N.m
Station name	XALD 15 cut-outs XALK 25 cut-outs
Electrical composition code	PW1
Environment	
Ambient air temperature for storage	-4070 °C
Ambient air temperature for operation	-4070 °C
Relative humidity	95 % at -4070 °C without condensation
IP 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
IK 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	CCC C-Tick CSA GOST BT 2006/95/EC UL
Directives	2004/108/EC - electromagnetic compatibility 1999/5/EC - R&TTE directive
Packing Units Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	3.0 cm
Package 1 Width	5.4 cm
Package 1 Length	8.4 cm
Package 1 Weight	54.0 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	1.486 kg				
Offer Sustainability					
Sustainable offer status	Green Premium product				
REACh Regulation	REACh Declaration				
REACh free of SVHC	Yes				
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration				
Mercury free	Yes				
China RoHS Regulation	China RoHS declaration				
RoHS exemption information	Yes				
Environmental Disclosure	Product Environmental Profile				
Circularity Profile	End of Life Information				
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins				
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which known to the State of California to cause cancer and birth defects or other reproductive harm. For r information go to www.P65Warnings.ca.gov				

Contractual warranty

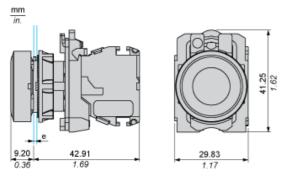
Warranty 18 months

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Dimensions Drawings

Wireless and Batteryless Pushbutton - Transmitter

With Plastic Pushbutton without Cap

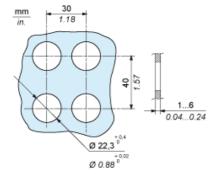


e: panel thickness 1 to 6 mm / 0.039 to 0.24 in.

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Mounting and Clearance

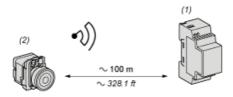
Transmitter Mounting



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Mounting and Clearance

Transmitter Clearance in Free Field Unobstructed

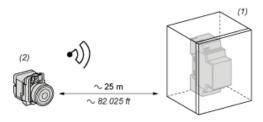


(1): Receiver (2): Transmitter

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Mounting and Clearance

Transmitter Clearance in a Metal Enclosure



(1): Metal enclosure(2): Transmitter

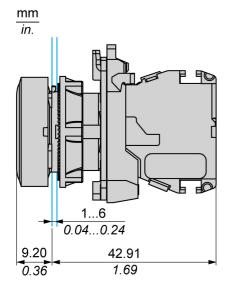
The range is reduced if the transmitter is placed in a metal enclosure (reduction factor:approx 10%)

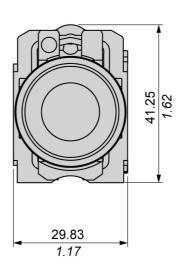
Glass window	1020 %
Plaster wall	3045 %
Brick wall	60 %
Concrete wall	7080 %
Metal structure	50100 %

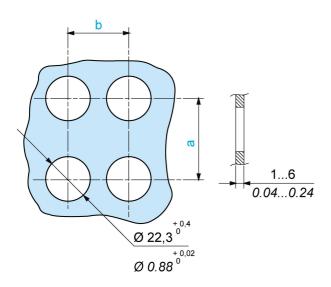
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Technical Illustration

Dimensions







		a (mm)	a (in.)	b (mm)	b (in.)
		40	1.57	30	1.18
ZBE●●●●	ZBV●●●				
		45	1.77	32	1.26
ZBE••••3	ZBV•••3				
		40	1.57	30	1.18
ZBE••••4	ZBV•••4				
		50	1.97	30	1.18
ZBE••••5	ZBV•••5				
		40	1.57	30	1.18
ZBE••••9	ZBV•••9				
		40	1.57	30	1.18
ZBRT●	ZBRV1				

Recommended replacement(s)