

Product data sheet Characteristics

ZB5RTA6

Harmony XB5, Wireless and batteryless push button, plastic, blue, Ø22, spring return with transmitter



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

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

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

I acking Office	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	54.0 g
Package 1 Height	3.0 cm
Package 1 width	5.4 cm
Package 1 Length	8.4 cm
Unit Type of Package 2	S01
Number of Units in Package 2	25
Package 2 Weight	1.486 kg
Package 2 Height	15.0 cm
Package 2 width	15.0 cm
Package 2 Length	40.0 cm

Offer Sustainability

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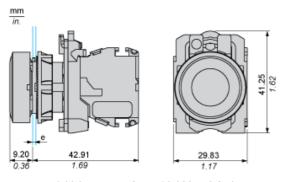
Sustainable offer status	Green Premium product	
REACh Regulation	☑ REACh Declaration	
REACh free of SVHC	Yes	
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)	
Mercury free	Yes	
RoHS exemption information	₫Yes	
China RoHS Regulation	China RoHS Declaration	

Environmental Disclosure	Product Environmental Profile
Circularity Profile	
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Contractual warranty	
Warranty	18 months

Product data sheet **Dimensions Drawings**

Wireless and Batteryless Pushbutton - Transmitter

With Plastic Pushbutton without Cap

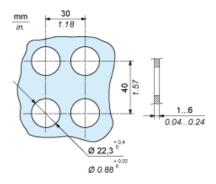


panel thickness 1 to 6 mm / 0.039 to 0.24 in.

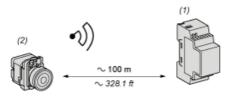
Product data sheet Mounting and Clearance

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Transmitter Mounting

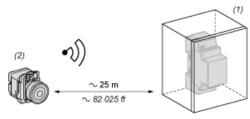


Transmitter Clearance in Free Field Unobstructed



(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%)

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