Product data sheet Characteristics

ZB4RTA5

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





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

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 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

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Fixing mode Fixing screw beneath head: 0.81.2 N.m Electrical composition code PW1 Environment Protective treatment TH 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 IP69 (front face) conforming to IEC 60529 IP69K (front face) conforming to IEC 50102 Wechanical durability 1000000 cycles Shock resistance 25 gn (duration = 6 ms) for 6000 shocks cor 30 gn (duration = 18 ms) for half sine wave 60068-2-27 50 gn (duration = 11 ms) for half sine wave 60068-2-27 50 gn (duration = 11 ms) for half sine wave 60068-2-27 50 gn (front face) conforming to IEC 61000-4-2 Electrostatic discharge immunity test - test IP parts)) conforming to IEC 61000-4-2 Electrostatic discharge immunity test - test IP parts)) conforming to IEC 61000-4-2 Susceptibility to electromagnetic fields - test conforming to IEC 61000-4-3 Susceptibility to electromagnetic fields - test conforming to IEC 61000-4-3 Susceptibility to electromagnetic fields - test conforming to IEC 61000-4-3 Susceptibility to electromagnetic fields - test conforming to IEC 61000-4-3 Susceptibility to electromagnetic fields - test conforming to IEC 61000-4-3 Susceptibility to electromagnetic fields - test conforming to IEC 61000-4-3 Susceptibility to electromagnetic fields - test conforming to IEC 61000-4-3 Susceptibility to electromagnetic fields - test conforming to IEC 61000-4-3 Susceptibility to electromagnetic fields - test con		
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Susceptibility to electromagnetic fields - test distance = 20 m) conforming to IEC 61000-4	evel: 4 kV (on contact (on metal level: 20 V/m (803000 MHz) level: 6 V/m (30006000 MHz,	
Product certifications UL[RETURN]CSA[RETURN]C-Tick[RETUR	N]GOST[RETURN]BT 2006/95/E	
Directives 1999/5/EC - R&TTE directive 2004/108/EC - electromagnetic compatibility	1	

Packing Units

r doming office		
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 g	

Offer Sustainability

Sustainable offer status	Green Premium product	
REACh Regulation	☑ REACh Declaration	
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)	
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	

Contractual warranty

2

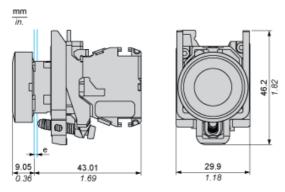
Warranty	18 months

Life is On Life is On

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Wireless and Batteryless Pushbutton - Transmitter

With Metal Pushbutton without Cap

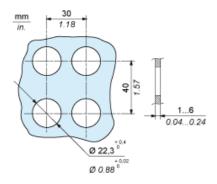


e: panel thickness 1 to 6 mm / 0.039 to 0.24 in.

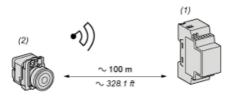
Product data sheet Mounting and Clearance

ZB4RTA5

Transmitter Mounting

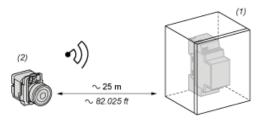


Transmitter Clearance in Free Field Unobstructed



Receiver (2): Transmitter

Transmitter Clearance in a Metal Enclosure



(1): Metal enclo(2): Transmitter Metal enclosure

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 %