Specifications





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

ZB4RTA5

Main

mann		
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

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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	
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 -40…70 °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	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 g

Contractual warranty

Warranty

18 months

Sustainability Screen Premium

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Yes

Learn more about Green Premium >

Guide to assess a product's sustainability >



Transparency RoHS/REACh

Well-being performance



Rohs Exemption Information

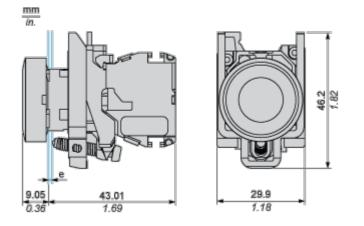
Certifications & Standards

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

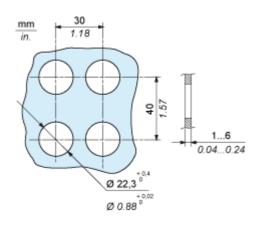
With Metal Pushbutton without Cap



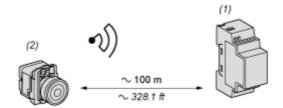
e: panel thickness 1 to 6 mm / 0.039 to 0.24 in.

Mounting and Clearance

Transmitter Mounting

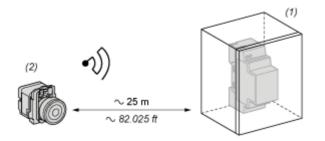


Transmitter Clearance in Free Field Unobstructed



- (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%)

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