



### Main

Range of product	Harmony XB5R
Product or component type	Wireless and batteryless transmitter
Device short name	XB5R
Kit composition	1 set of caps: ZBA80 1 handy box: ZBRM22 2 transmitter: ZBRT2
Contact operation	2 double action UP/DOWN push-buttons
Bezel material	Plastic
Fixing collar material	Plastic
Mounting diameter	22 mm

### Complementary

Shape of signaling unit head	Round
Type of operator	spring return push-button with transmitter
Operator profile	Flush
Operator additional information	Set of caps
Net weight	0.2 kg
Mechanical durability	400000 cycles
Operating travel	4.3 mm (total travel)
Operating force	25 N C/O changing electrical state
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
Mechanical robustness	Free fall resistance 1000 mm conforming to EN/IEC 60068-2-32
Communication port protocol	Zigbee green power at 2.4 GHz
Maximum sensing distance	100 m in free field 25 m transmitter in the handy box and receiver in a metal enclosure 300 m transmitter in the handy box, receiver in metal enclosure and use relay-antenna
Acquisition time	2 ms
Response time	< 2 ms
Emission power	3 mW

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

## Environment

Ambient air temperature for storage	-40...70 °C
Ambient air temperature for operation	-25...55 °C
IP degree of protection	IP65 (front face) conforming to IEC 60529 IP65 (front face) conforming to UL Type 12
IK degree of protection	IK03 conforming to IEC 50102
Relative humidity	95 % at 70 °C without condensation
Vibration resistance	5 gn (f= 11...500 Hz) conforming to IEC 60068-2-6 +/- 10 mm (f= 2...11 Hz) conforming to IEC 60068-2-6
Electromagnetic compatibility	Electrostatic discharge immunity test - test level: 8 kV (in free air (in insulating parts)) Electrostatic discharge immunity test - test level: 6 kV (on contact (on metal parts)) Susceptibility to electromagnetic fields - test level: 10 V/m (80...2000 MHz) Susceptibility to electromagnetic fields - test level: 3 V/m (80...2700 MHz, distance = 20 m) Immunity for industrial environments Radiated emission
Radio agreement	ANATEL ARIB T66 FCC ICASA RSS SRRC
Standards	UL 508 CSA C22.2 No 14 EN/IEC 60947-1 EN/IEC 60947-5-1
Product certifications	BT 2006/95/EC C-Tick EAC CSA UL CCC
Directives	2004/108/EC - electromagnetic compatibility 1999/5/EC - R&TTE directive

## Offer Sustainability

RECh Regulation	<a href="#">RECh Declaration</a>
RECh free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
RoHS exemption information	<a href="#">Yes</a>
China RoHS Regulation	<a href="#">China RoHS declaration</a>

Dimensions

Wireless and Batteryless Pushbutton

Plastic Mobile Box for Mobile or Fix Use - 2 Functions

