



Main

Range of product	Harmony XB5R
Product or component type	Wireless and batteryless transmitter
Device short name	XB5R
Contact operation	2 simple action push-button
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	1000000 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

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	EN/IEC 60947-5-1 CSA C22.2 No 14 EN/IEC 60947-1 UL 508
Product certifications	C-Tick CSA BT 2006/95/EC EAC UL CCC
Directives	2004/108/EC - electromagnetic compatibility 1999/5/EC - R&TTE directive

Packing Units

Package 1 Weight	232 g
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Offer Sustainability

REACH Regulation	REACH Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS Declaration

Dimensions

Wireless and Batteryless Pushbutton

Plastic Mobile Box for Mobile or Fix Use - 2 Functions

