

ZB5RTC2

transmitter- Ø40 mm- Mushroom Head
pushbutton -spring return



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	40 mm
Transmission frequency	2405 MHz
Emission class	5M00G7W
Antenna type	Omnidirectional

Complementary

Shape of signaling unit head	Round
Type of operator	spring return push-button with transmitter
Max power consumption in W	1 mW
Number of channels	1
Modulation technique	O-QPSK
Bandwidth	5 MHz
Antenna gain	0 dBi
Embedding depth	43 mm
CAD overall height	42.75 mm
CAD overall width	27.8 mm
CAD overall depth	28.8 mm
Operating travel	4.3 mm (total travel)
Operating force	25 N C/O changing electrical state
Mechanical robustness	Free fall resistance 1000 mm conforming to EN/IEC 60068-2-32
Standards	EN/IEC 60947-5-1 CSA C22.2 No 14 EN/IEC 60947-1

UL 508

Radio agreement	ANATEL ARIB T66 FCC ICASA RSS SRRC
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: 2...2.4 N.m
Device composition	ZB5RZC2 ZBRT1

Environment

Ambient air temperature for storage	-40...70 °C
Ambient air temperature for operation	-25...70 °C
Relative humidity	95 % at 70 °C without condensation
IP degree of protection	IP65 (front face) conforming to IEC 60529 IP30 (back face) conforming to IEC 60529 IP65 (front face) conforming to UL Type 12
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	+/- 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
Product certifications	BT 2006/95/EC CCC CSA GOST UL C-Tick
Directives	2004/108/EC - electromagnetic compatibility 1999/5/EC - R&TTE directive

Offer Sustainability

Sustainable offer status	Green Premium product
REACH free of SVHC	Yes
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
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

Warranty	18 months
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Complete Transmitter-Ø40 Mushroom Pushbutton Head Ø22 Spring Return

