



Main

Range of product	Harmony XB5
Product or component type	Wireless and batteryless transmitter
Device short name	XB5R
Bezel material	Plastic
Fixing collar material	Plastic
Mounting diameter	1.57 in (40 mm)
Transmission frequency	2405 MHz
Level or 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	<= 1.69 in (43 mm)
CAD overall height	1.68 in (42.75 mm)
CAD overall width	1.09 in (27.8 mm)
CAD overall depth	1.13 in (28.8 mm)
Operating travel	0.17 in (4.3 mm) total travel
Operating force	< 25 N C/O changing electrical state
Mechanical robustness	Free fall resistance (test level: 1000 mm) conforming to EN/IEC 60068-2-32
Standards	EN/IEC 60947-1 EN/IEC 60947-5-1 UL 508 CSA C22.2 No 14
Radio agreement	RSS SRRC ICASA ANATEL ARIB T66 FCC
Communication port protocol	Zigbee (green power) at 2.4 GHz conforming to IEEE 802.15.4
Maximum sensing distance	328.08 ft (100 m) in free field 82.02 ft (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 recommended torque: 2...2.4 N.m
Device composition	ZBRT1 ZB5RZC2

Environment

ambient air temperature for storage	-40...158 °F (-40...70 °C)
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ambient air temperature for operation	-13...158 °F (-25...70 °C)
relative humidity	95 % at 158 °F (70 °C) without condensation
IP degree of protection	IP65 on front face conforming to IEC 60529 IP30 on back face conforming to IEC 60529 IP65 on 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) 6000 shocks conforming to IEC 60068-2-27 30 gn (duration = 18 ms) half sine wave acceleration conforming to IEC 60068-2-27 50 gn (duration = 11 ms) 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	Immunity for industrial environments Radiated emission 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)
product certifications	CCC CSA C-Tick GOST UL BT 2006/95/EC
directives	2004/108/EC - electromagnetic compatibility 1999/5/EC - R&TTE directive

Offer Sustainability

Green Premium product	Green Premium product
Compliant - since 0627 - Schneider Electric declaration of conformity	Compliant - since 0627 - Schneider Electric declaration of conformity
Reference not containing SVHC above the threshold	Reference not containing SVHC above the threshold
Available	Available
Available	Available

Contractual warranty

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

