

ZBRT2

double actions (up/down) transmitter for wireless
and battery less pushbutton



Main

Range of product	Harmony XB5
Product or component type	Wireless and batteryless transmitter
Device short name	XB5R
Bezel material	Plastic
Mounting diameter	22 mm
Transmission frequency	2405 MHz
Emission class	5M00G7W
Antenna type	Omnidirectional

Complementary

Max power consumption in W	1 mW
Number of channels	1
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
Product weight	0.025 kg
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	CSA C22.2 No 14 EN/IEC 60947-5-1 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
Fixing mode	Fixing nut beneath head: 2...2.4 N.m
Electrical composition code	PW1

Environment

Ambient air temperature for storage	-40...70 °C
Ambient air temperature for operation	-25...55 °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	400000 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= 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
Product certifications	CSA CCC UL GOST C-Tick BT 2006/95/EC
Directives	2004/108/EC - electromagnetic compatibility 1999/5/EC - R&TTE directive

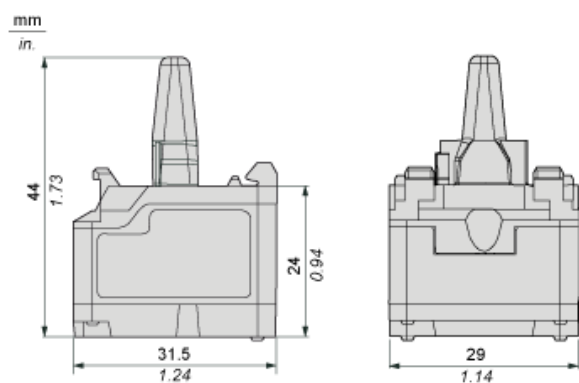
Offer Sustainability

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

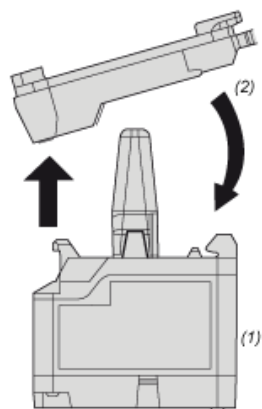
Contractual warranty

Warranty	18 months
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Dimensions Drawings



Mounting of the Transmitter onto the Body Fixing Collar



- (1): ZBRT1
(2): Body fixing collar