Product data sheet Characteristics

ZB4RTA6

transmitter - Ø22 mm metal head - blue cap



Main

Harmony XB5
Wireless and batteryless transmitter
XB5R
Chromium plated metal
Zamak
22 mm
2405 MHz
5M00G7W
Omnidirectional
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Complementary

Shape of signaling unit head	Round
Type of operator	Spring return push-button with transmitter
Operator profile	Flush blue
Rated power 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	0.045 kg
Operating travel	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	SRRC RSS ICASA FCC ARIB T66 ANATEL
Communication port protocol	Zigbee (green power) at 2.4 GHz conforming to IEEE 802.15.4
Maximum sensing distance	300 m transmitter in box type XAL D, receiver in metal enclosure and use relay-antenna 25 m transmitter in a plastic box type XAL D and receiver in a metal enclosure 100 m in free field
Acquisition time	2 ms
Response time	< 2 ms
Emission power	3 mW
Fixing mode	Fixing screw beneath head, nominal torque: 0.81.2 N.m
Electrical composition code	PW1

Environment

Protective treatment	TH	
Ambient air temperature for storage	-4070 °C	
Ambient air temperature for operation	-2555 °C	
Relative humidity	95 % at 70 °C without condensation	
IP degree of protection	IP65 on front face conforming to UL Type 12 IP30 on back face conforming to IEC 60529 IP65 on front face conforming to IEC 60529	
IK degree of protection	IK03 conforming to IEC 50102	
Mechanical durability	1000000 cycles	
Shock resistance	50 gn (duration = 11 ms) for half sine wave acceleration conforming to IEC 60068-2-27 30 gn (duration = 18 ms) for half sine wave acceleration conforming to IEC 60068-2-27 25 gn (duration = 6 ms) for 6000 shocks conforming to IEC 60068-2-27	
Vibration resistance	+/- 10 mm (f= 211 Hz) conforming to IEC 60068-2-6 5 gn (f= 11500 Hz) conforming to IEC 60068-2-6	
Electromagnetic compatibility	Radiated emission Immunity for industrial environments Susceptibility to electromagnetic fields (test level:3 V/m - 802700 MHz, distance = 20 m) Susceptibility to electromagnetic fields (test level:10 V/m - 802000 MHz) Electrostatic discharge immunity test (test level:6 kV - on contact (on metal parts)) Electrostatic discharge immunity test (test level:8 kV - in free air (in insulating parts))	
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

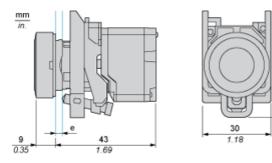
Sustainable offer status	Not Green Premium product
RoHS (date code: YYWW)	Compliant - since 1108 - Schneider Electric declaration of conformity



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Wireless and Batteryless Pushbutton - Transmitter

With Metal Pushbutton without Cap

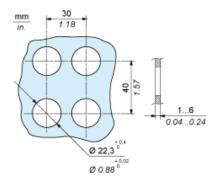


e: panel thickness 1 to 6 mm / 0.039 to 0.24 in.

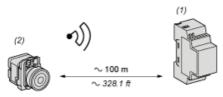
Product data sheet Mounting and Clearance

ZB4RTA6

Transmitter Mounting

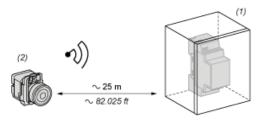


Transmitter Clearance in Free Field Unobstructed



Receiver (2): Transmitter

Transmitter Clearance in a Metal Enclosure



(1): Metal enclosure(2): Transmitter

The range is reduced if the transmitter is placed in a metal enclosure (reduction factor:approx 10%)

Glass window	1020 %
Plaster wall	3045 %
Brick wall	60 %
Concrete wall	7080 %
Metal structure	50100 %