# Product datasheet Characteristics

# ZBRA1

# Relay Antenna, AC/DC, 5m cable output





#### Main

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Range of product	Harmony XB5R	م ا
Product or component type	Wireless and batteryless range	ن ——— خ
Device short name	ZBRA	
Product destination	Wireless Schneider Electric ecosystem devices	
Control station application	Transceiver (emission and reception)	
Colour of base of enclosure	Black (RAL 9011)	\(\frac{1}{2}\)
Colour of cover	Transparent	
Material	Polycarbonate	
Frequency	2405 MHz for transmitter 2405 MHz for receiver	rii A
Emission class	5M00G7W	
Antenna type	Omnidirectional	
		7

### Complementary

Communication port protocol	Zigbee green power at 2.4 GHz conforming to IEEE 802.15.4	
Antenna gain	0 dBi	
Maximum sensing distance	300 m transmitter in box type XAL D, receiver in metal enclosure and use relay-antenna	
Maximum emission power	3 mW	
[Us] rated supply voltage	24240 V AC/DC 50/60 Hz - 1010 %	
Maximum power consumption in W	4 W AC/DC	
Operating position	Vertical	
Status LED	1 LED green for power ON 1 LED green for emission signal	
Overvoltage category	III conforming to IEC 60664-1	 2
Rated short-duration power frequency withstand voltage	4 kV 50 Hz conforming to EN/IEC 60947-5-1	
[Uimp] rated impulse withstand voltage	4 kV	
Electrical connection	2 conductors cable 0.34 mm² - flexible - 5 m conforming to EN/IEC 60947-1	

Tightening torque	0.6 N.m conforming to EN/IEC 60947-1
Housing material	Self-extinguishing plastic
Short-circuit protection	0.4 A fuse type fast blow
Max power consumption in W	1 mW
Number of channels	1
Modulation technique	O-QPSK
Bandwidth	5 MHz
Net weight	0.2 kg

## Environment

Ambient air temperature for storage	-4070 °C	
Relative humidity	90 % at -2055 °C, without condensation conforming to ETSI EN 300 440-1	
Electrical shock protection class	Class II conforming to IEC 61140	
IP degree of protection	IP65 conforming to IEC 60529 55 °C 0.1 m	
Pollution degree	3 conforming to IEC 60664-1	
IK degree of protection	IK03 conforming to EN 50102	
Radio agreement	RSS SRRC ANATEL, type III conforming to ETSI EN 301 489-3 ARIB T66, class 2 conforming to ETSI EN 301 489-3 FCC, category 2 conforming to ETSI EN 300 440-1 ICASA, category 1 conforming to ETSI EN 300 440-1	
Product certifications	CCC BT 2006/95/EC UL GOST CSA CE C-Tick	
Directives	1999/5/EC - R&TTE directive 2004/108/EC - electromagnetic compatibility	
Vibration resistance	+/-0.5 mm (f= 1055 Hz) conforming to IEC 60068-2-6 6 gn (f= 55150 Hz) conforming to IEC 60068-2-6	
Shock resistance	25 gn (duration = 6 ms) for 6000 shocks conforming to IEC 60068-2-27 15 gn (duration = 11 ms) for half sine wave acceleration conforming to IEC 60068-2-27	
Insulation resistance	> 500 MOhm at 500 V DC conforming to NF C 20030	
[Ui] rated insulation voltage	250 V conforming to IEC 60664-1	
Electromagnetic compatibility	Immunity for industrial environments conforming to EN/IEC 61000-6-2 Conducted and radiated emissions class B conforming to CISPR 22 Electrostatic discharge immunity test - test level: 8 kV (in free air (in insulating parts)) conforming to IEC 61000-4-2 Electrostatic discharge immunity test - test level: 6 kV (on contact (on metal parts)) conforming to IEC 61000-4-2 Susceptibility to electromagnetic fields - test level: 10 V/m (802000 MHz) conforming to IEC 61000-4-3 Susceptibility to electromagnetic fields - test level: 3 V/m (802700 MHz, distance = 20 m) conforming to IEC 61000-4-3 Electrical fast transient/burst immunity test - test level: 2 kV conforming to IEC 61000-4-4 1.2/50 µs shock waves immunity test - test level: 1 kV (differential mode) conforming to IEC 61000-4-5 1.2/50 µs shock waves immunity test - test level: 2 kV (common mode) conforming to IEC 61000-4-5 Conducted RF disturbances - test level: 10 V conforming to IEC 61000-4-6 Immunity to microbreaks and voltage drops conforming to IEC 61000-4-11 Radiated emission conforming to ETSI EN 300 440-1 Conducted emission conforming to ETSI EN 300 489-3	

## Packing Units

Package 1 Weight	0.252 kg

### Offer Sustainability

Sustainable offer status	Green Premium product	
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	
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	

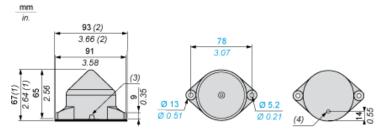
## Contractual warranty

Warranty	18 months

# Product datasheet **Dimensions Drawings**

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## Relay-Antenna

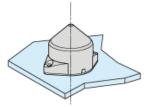


- (1) (2) (3) (4) Knock-out for wire routing, maximum capacity 14 mm/0.55 in.
- With seal
- Radial cable route
- Axial cable route

# Product datasheet Mounting and Clearance

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## Antenna Mounting

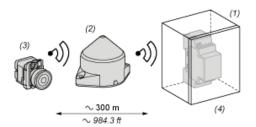


The antenna is installed following his vertical axis

# Product datasheet Mounting and Clearance

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#### Antenna Clearance in a Metal Enclosure



(1): Metal enclosure(2): Relay Antenna(3): Transmitter(4): Receiver

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

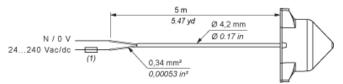
Glass window	1020 %
Plaster wall	3045 %
Brick wall	60 %
Concrete wall	7080 %
Metal structure	50100 %

# Product datasheet Connections and Schema

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## Relay-Antenna

### Wiring Diagram



(1) 400 mA fast-blow fuse