ZBRA1

Relay antenna - 24...240 V AC/DC - cable 5m - 1 power LED - 2 com LEDs



Main

Commercial Status	Commercialised
Range of product	Harmony XB5R
Product or component type	Wireless and batteryless range
Device short name	ZBRA
Product destination	For XB5R and XB4R Ø 22 mm control units
Control station application	Transceiver (emission and reception)
Colour of base of enclosure	Black RAL 9011
Colour of cover	Transparent
Material	Polycarbonate

Complementary

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
Emission power	< 3 mW
[Us] rated supply voltage	24240 V AC/DC 50/60 Hz - 1010 %
Power consumption in W	<= 4 W AC/DC
Operating position	Vertical
Status LED	1 LED green for emission signal 1 LED green for power ON
Overvoltage category	III conforming to IEC 60664-1
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 flexible with 5 m length, cross section: 0.34 mm² 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 fast blow
Product weight	0.2 kg

Environment

Ambient air temperature for storage	-4070 °C	
Relative humidity	90 % at -2055 °C without condensation conforming to EN 300-440-1	
Class of protection against electric shock	Class II conforming to IEC 61140	
IP degree of protection	IP65 conforming to IEC 60529 at 55 °C, 0.1 m	
Pollution degree	3 conforming to IEC 60664-1	
IK degree of protection	IK03 conforming to EN 50102	
Radio agreement	SRRC RSS ICASA, category 1 conforming to EN 300-440-1 FCC, category 2 conforming to EN 300-440-1 ARIB T66, class 2 conforming to EN 301-489-3 ANATEL, type III conforming to EN 301-489-3	

Product certifications	CCC CE CSA C-Tick GOST UL BT 2006/95/EC EMC directive 2004/108/EC R&TTE directive 1999/5/EC
Vibration resistance	6 gn (f= 55150 Hz) conforming to IEC 60068-2-6 +/-0.5 mm (f= 1055 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 for 11 ms 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	Radiated emission conforming to EN 300-440-2 Conducted emission conforming to EN 300-489-3 Conducted emission conforming to EN 300-489-1 Radiated emission conforming to EN 300-440-1 Immunity to microbreaks and voltage drops conforming to IEC 61000-4-11 Conducted RF disturbances (test level:10 V conforming to IEC 61000-4-6 1.2/50 µs shock waves immunity test (test level:2 kV - common mode) conforming to IEC 61000-4-5 1.2/50 µs shock waves immunity test (test level:1 kV - differential mode) conforming to IEC 61000-4-5 Electrical fast transient/burst immunity test (test level:2 kV conforming to IEC 61000-4-4 Susceptibility to electromagnetic fields (test level:3 V/m - 802700 MHz, distance = 20 m) conforming to IEC 61000-4-3 Susceptibility to electromagnetic fields (test level:10 V/m - 802000 MHz) conforming to IEC 61000-4-3 Electrostatic discharge immunity test (test level:6 kV - on contact (on metal parts)) conforming to IEC 61000-4-2 Electrostatic discharge immunity test (test level:8 kV - in free air (in insulating parts)) conforming to IEC 61000-4-2 Conducted and radiated emissions, class B conforming to CISPR 22 Immunity for industrial environments conforming to EN/IEC 61000-6-2

Offer Sustainability

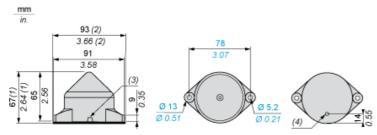
Sustainable offer status	Not Green Premium product



Product data sheet **Dimensions Drawings**

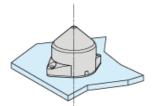
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Relay-Antenna



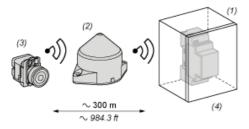
- Knock-out for wire routing, maximum capacity 14 mm/0.55 in. (1)
- With seal
- (2) Radial cable route
- Axial cable route

Antenna Mounting



The antenna is installed following his vertical axis

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%).

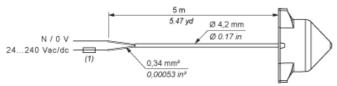
Glass window	1020 %
Plaster wall	3045 %
Brick wall	60 %
Concrete wall	7080 %
Metal structure	50100 %

Product data sheet Connections and Schema

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Wiring Diagram



(1) 400 mA fast-blow fuse