

# ZBRRA

Harmony, Configurable receiver, 2 relays, 2 buttons, 6 indicating LEDs, monostable, bistable, stop/start, 24..240 V AC/DC



## Main

Range of product	Harmony
Product or component type	Programmable receiver
Device short name	ZBRRA
Product specific application	Interface to actuators
Function of module	Bi-stable Monostable Stop/Start
Reset time	2 Ms time delay
Transmission frequency	2405 MHz
Level or class	5M00G7W
Antenna type	Omnidirectional

## Complementary

Nominal output current	0.3 A at 48 V DC conforming to EN/IEC 60947-5-1 3 A at 24 V DC conforming to UL 508 1.5 A at 240 V AC conforming to EN/IEC 60947-5-1 3 A at 120 V AC conforming to EN/IEC 60947-5-1 3 A at 240 V AC conforming to UL 508 3 A at 24 V DC conforming to CSA C22.2 No 14 3 A at 240 V AC conforming to CSA C22.2 No 14
Output type	2 relays
Output contacts	2 C/O
Input output isolation	Galvanic isolation
Time delay range	0.5 s (tolerance: - 15...15 %)
Switching capacity in VA	1250 VA
Maximum switching current	5 MA AC/DC
Maximum switching voltage	250 V AC/DC
[Us] rated supply voltage	24...240 V AC/DC 50/60 Hz - 10...10 %
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 40 M transmitter in box type XAL D, receiver in metal enclosure and use relay-antenna
Response time	< 30 ms after transmitter clicks
Utilisation category	AC-15 : B300 conforming to EN/IEC 60947-5-1 DC-12 conforming to EN/IEC 60947-5-1
Maximum power consumption in W	4 W AC/DC
Breaking capacity	15 W

Breaking capacity	750 VA
Control circuit frequency	50...60 Hz +/- 10 %
Short-circuit protection	0.4 A fuse type fast blow
Operating position	Any position without derating
Electrical connection	1 conductor cable 0.14...2.5 mm <sup>2</sup> - AWG 26...AWG 14 - solid - without cable end-conforming to IEC 60947-1 2 conductors cable 0.14...1.5 mm <sup>2</sup> - AWG 26...AWG 16 - solid - without cable end conforming to IEC 60947-1 1 conductor cable 0.14...4 mm <sup>2</sup> - AWG 26...AWG 12 - flexible - with cable end-conforming to IEC 60947-1 2 conductors cable 0.14...1.5 mm <sup>2</sup> - AWG 26...AWG 16 - flexible - with cable end conforming to IEC 60947-1
Tightening torque	0.5...1 N.M conforming to EN/IEC 60947-1
Housing material	Self-extinguishing plastic
Status LED	1 LED green for power ON 2 LEDs green for relay ON 2 LEDs green for function mode 1 LED green and yellow for reception signal
Mounting support	35 mm symmetrical DIN rail conforming to EN/IEC 60715 Mounting plate
Rated short-duration power frequency withstand voltage	1.5 kV 50 Hz conforming to EN/IEC 60947-5-1
[Uimp] rated impulse withstand voltage	4 kV
Surge withstand	1 kV differential mode conforming to IEC 61000-4-5 2 kV common mode conforming to IEC 61000-4-5
Max power consumption in W	1 MW
Number of channels	1
Modulation Technique	O-QPSK
Bandwidth	5 MHz
Antenna gain	0 DBi
Width	36 Mm
Height	108 Mm
Depth	75 Mm
Net weight	0.13 Kg

## Environment

Standards	CSA C22.2 No 14 UL 508 EN/IEC 60947-5-1 EN/IEC 60947-1
Radio agreement	RSS SRRC ANATEL ARIB T66 FCC ICASA
Product certifications	C-Tick CCC CSA UL GOST
Marking	CE
Ambient air temperature for storage	-40...70 °C
Relative humidity	90 % at -20...55 °C, without condensation conforming to ETSI EN 300 440-1
Vibration resistance	+/- 7.5 mm (f= 5...14 Hz) conforming to IEC 60068-2-6 2 gn (f= 8...150 Hz) conforming to IEC 60068-2-6
Shock resistance	10 gn (duration = 16 ms) for 6000 shocks conforming to IEC 60068-2-27
IP degree of protection	IP20 (casing) conforming to IEC 60529 IP20 (terminals)
Pollution degree	2 conforming to IEC 60664-1
Overvoltage category	II conforming to IEC 60664-1
Insulation resistance	> 500 MOhm at 500 V DC conforming to NF C 20-030
[Ui] rated insulation voltage	250 V conforming to IEC 60664-1

Electromagnetic compatibility	<p>Immunity for industrial environments conforming to EN/IEC 61000-6-2</p> <p>Conducted and radiated emissions class B conforming to CISPR 22</p> <p>Electrostatic discharge immunity test - test level: 8 kV (in free air (in insulating parts)) conforming to IEC 61000-4-2</p> <p>Electrostatic discharge immunity test - test level: 6 kV (on contact (on metal parts)) conforming to IEC 61000-4-2</p> <p>Susceptibility to electromagnetic fields - test level: 10 V/m (80...2000 MHz) conforming to IEC 61000-4-3</p> <p>Susceptibility to electromagnetic fields - test level: 3 V/m (80...2700 MHz, distance = 20 m) conforming to IEC 61000-4-3</p> <p>Electrical fast transient/burst immunity test - test level: 2 kV (relay wires) conforming to IEC 61000-4-4</p> <p>Electrical fast transient/burst immunity test - test level: 2 kV (power supply-wires) conforming to IEC 61000-4-4</p> <p>1.2/50 µs shock waves immunity test - test level: 1 kV (differential mode) conforming to IEC 61000-4-5</p> <p>1.2/50 µs shock waves immunity test - test level: 2 kV (common mode) conforming to IEC 61000-4-5</p> <p>Conducted RF disturbances - test level: 10 V conforming to IEC 61000-4-6</p> <p>Immunity to microbreaks and voltage drops - test level: 10 ms conforming to IEC 61000-4-11</p> <p>Radiated emission conforming to ETSI EN 300 440-1</p> <p>Conducted emission conforming to EN 300-489-1</p> <p>Conducted emission conforming to ETSI EN 300 489-3</p> <p>Radiated emission conforming to ETSI EN 300 440-2</p>
Electrical durability	100000 Cycles
Mechanical durability	1000000 Cycles

### Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	136.0 G
Package 1 Height	4.6 Cm
Package 1 width	8 Cm
Package 1 Length	9.6 Cm
Unit Type of Package 2	S03
Number of Units in Package 2	64
Package 2 Weight	9.304 Kg
Package 2 Height	30 Cm
Package 2 width	30 Cm
Package 2 Length	40 Cm

### Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	<a href="#">REACH Declaration</a>
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
RoHS exemption information	<a href="#">Yes</a>
China RoHS Regulation	<a href="#">China RoHS Declaration</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	<a href="#">End Of Life Information</a>
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
California proposition 65	WARNING: This product can expose you to chemicals including: Nickel compounds, which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>

Contractual warranty

Warranty	18 months
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Product Life Status :	Commercialised
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