ZBRRC

Programmable receiver, Harmony XB5R, 4 PNP, 2 buttons, 6 indicating LEDs, monostable, 24V DC



Main

Range of product	Harmony
Product or component type	Programmable receiver
Device short name	ZBRRC
Product specific application	Interface to PLC
Function of module	Monostable
Reset time	2 ms time delay
Transmission frequency	2405 MHz
Emission class	5M00G7W
Antenna type	Omnidirectional

Complementary

Output type	Transistor PNP	
Output contacts	4 PNP	
Time delay range	0.5 s (tolerance: - 1515 %)	
Maximum switching current	0.2 mA DC	
Minimum switching current	10 mA at 5 V DC	
[Us] rated supply voltage	24 V DC - 1520 %	
Maximum voltage drop	<2 V DC at 2 A	
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 relayantenna	
Response time	< 30 ms after transmitter clicks	
Utilisation category	DC-13 conforming to IEC 60947-5-1	
Maximum power consumption in VA	20 VA DC	
Maximum power consumption in W	20 W DC	
Breaking capacity	4.8 W (per output)	
Short-circuit protection	0.4 A fuse type fast blow	
Operating position	Any position without derating	
Electrical connection	1 conductor cable 0.142.5 mm² - AWG 26AWG 14 - solid - without cable end conforming to IEC 60947-1 2 conductors cable 0.141.5 mm² - AWG 26AWG 16 - solid - without cable end conforming to IEC 60947-1 1 conductor cable 0.144 mm² - AWG 26AWG 12 - flexible - with cable end conforming to IEC 60947-1 2 conductors cable 0.141.5 mm² - AWG 26AWG 16 - flexible - with cable end conforming to IEC 60947-1	
Tightening torque	0.51 N.m conforming to IEC 60947-1	
Housing material	Self-extinguishing plastic	
Status LED	1 LED green for power ON 1 LED green and yellow for reception signal 4 LEDs green for relay ON	
Mounting support	35 mm symmetrical DIN rail conforming to IEC 60715 Mounting plate	
Rated short-duration power frequency withstand voltage	1 kV 50 Hz conforming to IEC 60947-5-1	
[Uimp] rated impulse withstand voltage	0.8 kV	

Surge withstand	0.5 KV differential mode conforming to IEC 61000-4-5	
	1 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

Environment		
Standards	IEC 60947-5-1	
Radio agreement	RSS SRRC ANATEL ARIB T66 FCC ICASA	
Product certifications	CCC[RETURN]CSA[RETURN]GOST[RETURN]C-Tick[RETURN]UL	
Marking	CE	
Ambient air temperature for storage	-4070 °C	
Relative humidity	90 % at -2055 °C, without condensation conforming to ETSI EN 300 440-1	
Vibration resistance	+/- 7.5 mm (f= 514 Hz) conforming to IEC 60068-2-6 2 gn (f= 8150 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	III conforming to IEC 60664-1	
Insulation resistance	> 500 MOhm at 500 V DC conforming to NF C 20-030	
[Ui] rated insulation voltage	60 V conforming to IEC 60664-1	
Electromagnetic compatibility	Immunity for industrial environments conforming to 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 (power supply wire conforming to IEC 61000-4-4 Conducted RF disturbances - test level: 10 V conforming to IEC 61000-4-6 Radiated emission conforming to ETSI EN 300 440-1 Conducted emission conforming to ETSI EN 300 449-3 Radiated emission conforming to ETSI EN 300 440-2 Electrical fast transient/burst immunity test - test level: 1 kV (PNP output wires) conforming to IEC 61000-4-4 1.2/50 µs shock waves immunity test - test level: 0.5 kV (differential mode) conforming to IEC 61000-4-5 1.2/50 µs shock waves immunity test - test level: 1 kV (common mode) conforming to IEC 61000-4-5 Immunity to microbreaks and voltage drops - test level: 7 ms conforming to IEC	

Packing Units

Unit Type of Package 1	PCE	
Number of Units in Package 1	1	
Package 1 Height	4.6 cm	
Package 1 Width	7.9 cm	
Package 1 Length	9.6 cm	

Package 1 Weight	122.0 g
Unit Type of Package 2	S03
Number of Units in Package 2	64
Package 2 Height	30.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	8.498 kg

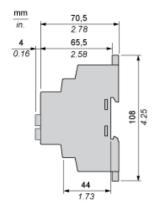
Offer Sustainability

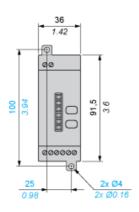
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)	
Mercury free	Yes	
China RoHS Regulation	China RoHS Declaration	
RoHS exemption information	₫Yes	
Environmental Disclosure	Product Environmental Profile	
Circularity Profile	End Of Life Information	
WEEE	The product must be disposed on European Union markets following spe waste collection and never end up in rubbish bins	

Contractual warranty

Marranty	18 months	
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Programmable Receiver

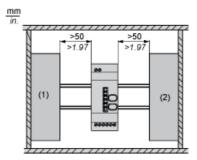




Product data sheet Mounting and Clearance

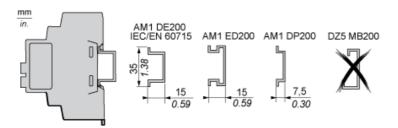
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Receiver Clearance



- (1) Drive
- (2) Power Supply or PLC

Receiver Mounting

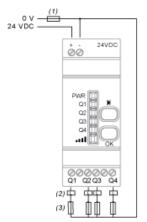


Product data sheet Connections and Schema

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Programmable Receiver

Wiring Diagram



- 400 mA fast-blow fuse Imax = 200 mA Imax = 300 mA
- (1) (2) (3)