ZBRRC

Programmable receiver - 4 PNP - 200 mA - 24 V DC - 2 pusbuttons - 6 LEDs



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

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Nominal output current	2 A at 24 V DC for EN/IEC 60947-5-1
Output type	Transistor PNP
Output contacts	4 PNP
Time delay range	0.5 s (tolerance: - 1515 %)
Maximum switching current	0.2 mA
Minimum switching current	10 mA 5 V DC
[Us] rated supply voltage	24 V DC - 1520 %
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	40 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)
Response time	< 30 ms (after transmitter clicks)
Channels utilisation	<= 32 per receiver
Utilisation category	DC-13 conforming to EN/IEC 60947-5-1
Power consumption in VA	20 VA DC
Power consumption in W	20 W
Breaking capacity	4.8 W per output
Short circuit protection	0.4 A fuse fast blow
Operating position	Any position without derating
Electrical connection	2 conductors cable 0.141.5 mm² - AWG 26AWG 16 - flexible - with 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 - solid - without cable end conforming to IEC 60947-1 1 conductor cable 0.142.5 mm² - AWG 26AWG 14 - solid - without cable end conforming to IEC 60947-1
Tightening torque	0.51 N.m conforming to EN/IEC 60947-1
Housing material	Self-extinguishing plastic
Status LED	4 LEDs, color: green for relay ON 1 LED, color: green and yellow for reception signal 1 LED, color: green for power ON
Mounting support	Mounting plate 35 mm symmetrical DIN rail conforming to EN/IEC 60715
Rated short-duration power frequency withstand voltage	1 kV 50 Hz conforming to EN/IEC 60947-5-1

[Uimp] rated impulse withstand voltage	0.8 kV
Surge withstand	1 kV (common mode) conforming to IEC 61000-4-5
	0.5 kV (differential mode) conforming to IEC 61000-4-5
Rated power 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
Product weight	0.13 kg
Environment	
Standards	EN/IEC 60947-1
	EN/IEC 60947-5-1 UL 508
	CSA C22.2 No 14
Radio agreement	ICASA
	FCC ARIB T66
	ANATEL
	SRRC RSS
Product certifications	CCC
Product Certifications	CSA
	C-Tick
	GOST 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	2 gn (f= 8150 Hz) conforming to IEC 60068-2-6
Shock resistance	+/- 7.5 mm (f= 514 Hz) conforming to IEC 60068-2-6 10 gn (duration = 16 ms) 6000 shocks conforming to IEC 60068-2-27
IP degree of protection	IP20 on terminals
ii degree or protection	IP20 on casing conforming to IEC 60529
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 to microbreaks and voltage drops (test level: 7 ms) conforming to IEC
	61000-4-11 1.2/50 µs shock waves immunity test (test level: 1 kV) common mode conforming
	to IEC 61000-4-5
	1.2/50 µs shock waves immunity test (test level: 0.5 kV) differential mode conforming to IEC 61000-4-5
	Electrical fast transient/burst immunity test (test level: 1 kV) PNP output wires
	conforming to IEC 61000-4-4
	Radiated emission conforming to ETSI EN 300 440-2 Conducted emission conforming to ETSI EN 300 489-3
	Conducted emission conforming to EN 300-489-1
	Radiated emission conforming to ETSI EN 300 440-1
	Conducted RF disturbances (test level: 10 V) conforming to IEC 61000-4-6 Electrical fast transient/burst immunity test (test level: 2 kV) power supply wires
	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 con-
	forming to IEC 61000-4-3 Flectrostatic discharge immunity test (test level: 6 kV) on contact (on metal parts)
	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



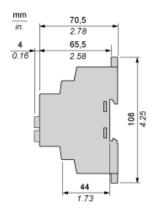
Offer Sustainability

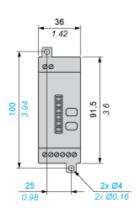
Sustainable offer status	Not Green Premium product
RoHS (date code: YYWW)	Compliant - since 1113 - Schneider Electric declaration of conformity



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Programmable Receiver

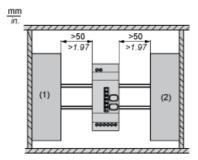




Product data sheet Mounting and Clearance

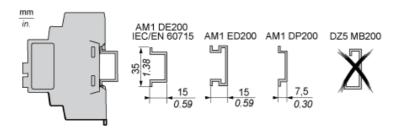
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Receiver Clearance



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

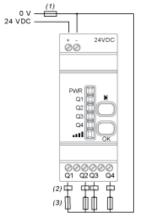
Receiver Mounting



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Wiring Diagram



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